

# ***Nikon***

DIGITAL CAMERA

# COOLPIX S7000



## Reference Manual

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# Introduction




## Read This First

To get the most from this Nikon product, be sure to read “For Your Safety” (📖vi–viii) and “Wi-Fi (Wireless LAN Network)” (📖xi), and all other instructions thoroughly and keep them where they will be read by all who use the camera.

- If you want to start using the camera right away, see “Preparing for Shooting” (📖7) and “Basic Shooting and Playback Operations” (📖12).

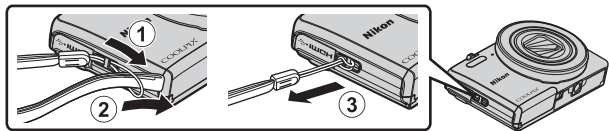
## Other Information

- Symbols and Conventions

Symbol	Description
	This icon marks cautions and information that should be read before using the camera.
	This icon marks notes and information that should be read before using the camera.
	This icon marks other pages containing relevant information.

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

## How to Attach the Camera Strap



## 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 websites:

- 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 websites 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 website 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, AC adapters and, USB cables) 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.

**Holographic seal:** Identifies this device as an authentic Nikon product.



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

### Before Taking Important Pictures

Before taking pictures on important occasions (such as at weddings or before taking the camera 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.
- Illustrations and monitor content shown in this manual may differ from the actual product.
- 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).

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

## Disposing of Data Storage Devices



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

Before discarding a data storage device or transferring ownership to another person, erase all data using commercial deletion software, or format the device and then completely refill it with images containing no private information (for example, images of empty sky). Care should be taken to avoid injury or damage to property when physically destroying data storage devices.

To delete the Wi-Fi settings, select **Restore default settings** in the Wi-Fi options menu (📖76).

## Conformity Marking

Follow the procedure below to display some of the conformity markings that the camera complies with.

Press the **MENU** button →  → Conformity marking → 

## 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, Charging AC Adapter, 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. To perform this operation, use the Charging AC Adapter EH-71P (included) and USB Cable UC-E21 (included). The Battery Charger MH-66 (available separately) is also available to charge the battery without using a camera.
- When inserting the battery, do not attempt to insert it upside down or backwards.
- Do not short or disassemble the battery or attempt to remove or break the battery insulation or casing.
- Do not expose the battery to flame or to excessive heat.
- Do not immerse in or expose to water.
- Put the battery in a plastic bag, etc. in order to insulate it before transporting. 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 the appropriate power supply (battery, Charging AC adapter, AC adapter, USB cable)**

Using a power supply other than those provided or sold by Nikon could result in damage or malfunction.

 **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.

 **Do not touch the moving parts of the lens**


Failure to observe this precaution could result in injury.

 **Handle moving parts with care**

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

 **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.

 **Follow the instructions of airline and hospital personnel**

# Notices

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

### **IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS.**

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

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

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

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

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful

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

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

## **CAUTIONS**

### **Modifications**

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

### **Interface Cables**

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



## Notice for Customers in the State of California

### WARNING

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

### Wash hands after handling.

Nikon Inc.,

1300 Walt Whitman Road, Melville, New York 11747-3064, U.S.A.

Tel: 631-547-4200

## Notice for Customers in Canada

CAN ICES-3 B / NMB-3 B

## 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 S7000 (FCC ID: CGJ3151EB / IC ID:4634A-2150EC) 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 S7000 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\\_S7000.pdf](http://imaging.nikon.com/support/pdf/DoC_S7000.pdf).

### **Notice for Customers in Jamaica**

This product contains a Type Approved Module by Jamaica: "SMA – WSDB-686GN"


## 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.


## 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 (📖76) to delete all user information registered and configured with the product, including wireless LAN connection settings and other personal information.

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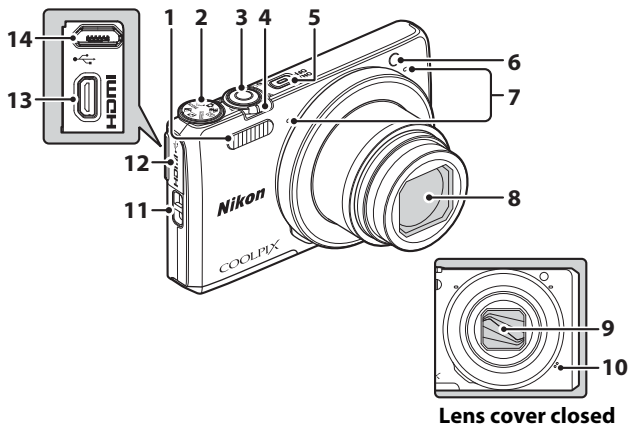
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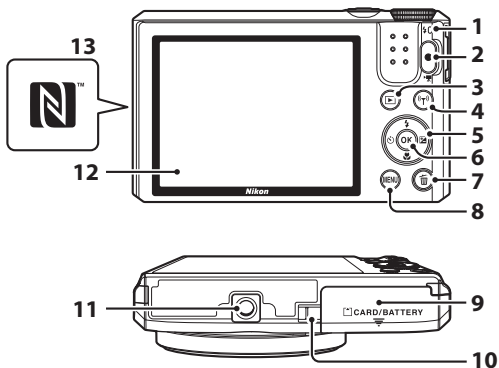
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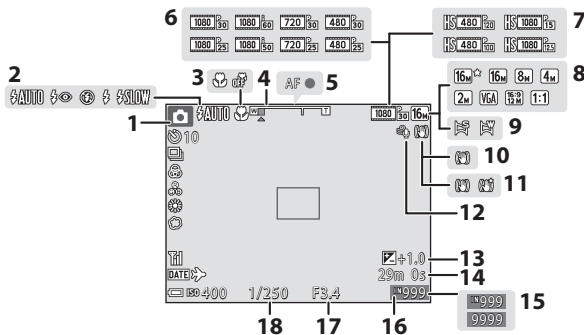
- |          |   |           |  |
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# The Monitor

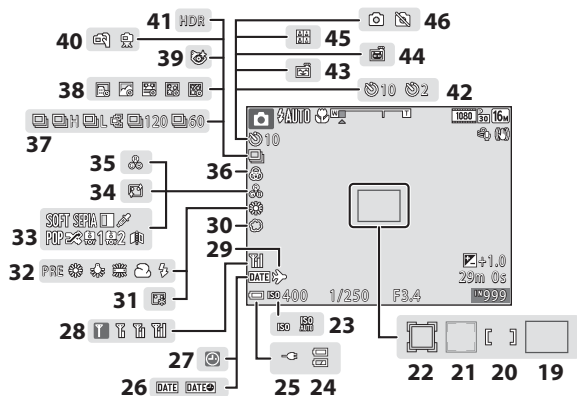
The information that is displayed in the monitor during shooting and playback changes depending on the camera's settings and state of use.

By default, information is displayed when the camera is 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** (📖108)).

## Shooting Mode



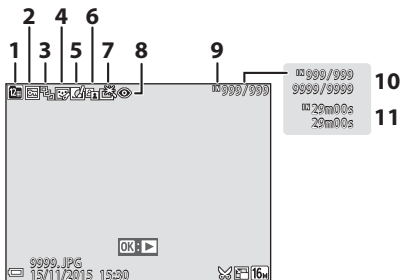
<b>1</b>	Shooting mode ..... 19, 21, 22, 33, 35, 38	<b>10</b>	Photo VR icon ..... 111
<b>2</b>	Flash mode ..... 41	<b>11</b>	Movie VR icon ..... 102
<b>3</b>	Macro mode ..... 45	<b>12</b>	Wind noise reduction ..... 103
<b>4</b>	Zoom indicator ..... 15, 45	<b>13</b>	Exposure compensation value ..... 47, 49
<b>5</b>	Focus indicator ..... 13	<b>14</b>	Remaining movie recording time ..... 69
<b>6</b>	Movie options (normal speed movies) ..... 97	<b>15</b>	Number of exposures remaining (still images) ..... 12
<b>7</b>	Movie options (HS movies) ..... 98	<b>16</b>	Internal memory indicator ..... 12
<b>8</b>	Image mode ..... 78	<b>17</b>	Aperture value ..... 15
<b>9</b>	Easy panorama ..... 30	<b>18</b>	Shutter speed ..... 15



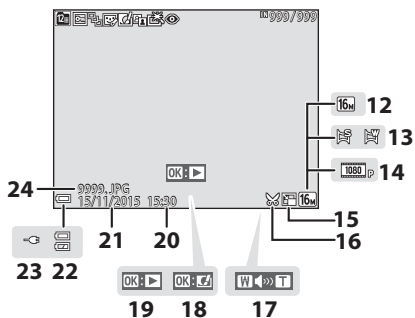
<b>19</b>	Focus area (target finding AF)	52, 86
<b>20</b>	Focus area (manual or center)	55, 85
<b>21</b>	Focus area (face detection, pet detection)	27, 35, 53, 85
<b>22</b>	Focus area (subject tracking)	86, 87
<b>23</b>	ISO sensitivity	84
<b>24</b>	Battery level indicator	12
<b>25</b>	Charging AC Adapter connection indicator	
<b>26</b>	Date stamp	110
<b>27</b>	"Date not set" indicator	141
<b>28</b>	Wi-Fi communication indicator	104, 118
<b>29</b>	Travel destination icon	106
<b>30</b>	Soft	35
<b>31</b>	Foundation makeup	35
<b>32</b>	White balance mode	80
<b>33</b>	Special effects	33
<b>34</b>	Skin softening	35
<b>35</b>	Hue	35, 46
<b>36</b>	Vividness	35, 46
<b>37</b>	Continuous shooting mode	82
<b>38</b>	Time-lapse movie	28
<b>39</b>	Blink proof icon	90
<b>40</b>	Hand-held/tripod	24, 25
<b>41</b>	Backlighting (HDR)	24
<b>42</b>	Self-timer indicator	43
<b>43</b>	Smile timer	36
<b>44</b>	Pet portrait auto release	27
<b>45</b>	Self-Collage	37
<b>46</b>	Still image capture (during movie recording)	72



# Playback Mode



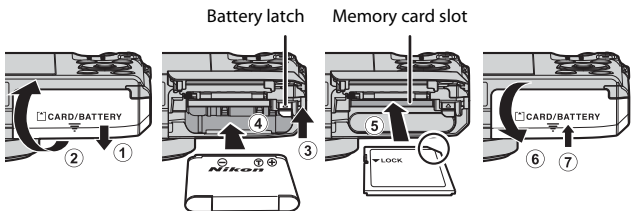
<b>1</b>	List by date icon.....	60	<b>7</b>	Quick retouch icon.....	64
<b>2</b>	Protect icon.....	93	<b>8</b>	Red-eye correction icon.....	65
<b>3</b>	Sequence display (when <b>Individual pictures</b> is selected) .....	95	<b>9</b>	Internal memory indicator	
<b>4</b>	Glamour retouch icon.....	66	<b>10</b>	Current image number/ total number of images	
<b>5</b>	Quick effects icon.....	63	<b>11</b>	Movie length or elapsed playback time	
<b>6</b>	D-Lighting icon.....	64			



- |           |                          |        |           |  |     |
|-----------|--------------------------|--------|-----------|--|-----|
| <b>12</b> | Image mode .....         | 78     | <b>19</b> | Easy panorama playback guide             |     |
| <b>13</b> | Easy panorama.....       | 32     |           | Sequence playback guide                  |     |
| <b>14</b> | Movie options.....       | 97     |           | Movie playback guide                     |     |
| <b>15</b> | Small picture icon ..... | 67     | <b>20</b> | Time of recording                        |     |
| <b>16</b> | Crop icon .....          | 58, 68 | <b>21</b> | Date of recording                        |     |
| <b>17</b> | Volume indicator.....    | 73     | <b>22</b> | Battery level indicator.....             | 12  |
| <b>18</b> | Quick effects guide      |        | <b>23</b> | Charging AC Adapter connection indicator |     |
|           |                          |        | <b>24</b> | File number and type .....               | 147 |

# Preparing for Shooting

## Insert the Battery and Memory Card



- With the battery's positive and negative terminals oriented correctly, move the orange battery latch (3), and fully insert the battery (4).
- Slide the memory card in until it clicks into place (5).
- Be careful not to insert the battery or memory card upside-down or backward, as this could cause a malfunction.

### ✓ Formatting a Memory Card

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 memory card into the camera, press the **MENU** button, and select **Format card** in the setup menu (76).

### Removing the Battery or Memory Card

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

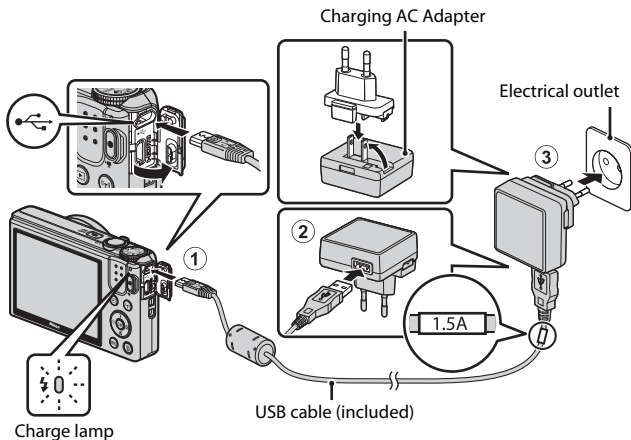
- Move the battery latch to eject the battery.
- Gently push the memory card into the camera to partially eject the memory card.
- Be careful when handling the camera, battery, and memory card immediately after using the camera, as they may become hot.

### Memory Cards and Internal Memory

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

# Charge the Battery

- 1 With the battery installed, connect the camera to an electrical outlet.



If a plug adapter\* is included with your camera, securely connect it to the Charging AC Adapter. 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. This step can be omitted if the plug adapter comes permanently bonded to the Charging AC Adapter.
- The charge lamp slowly flashes green to indicate that the battery is charging.
- When charging is complete, the charge lamp turns off. It takes about 1 hour and 50 minutes to charge a fully exhausted battery.
- The battery cannot be charged when the charge lamp quickly flashes green, possibly due to one of the reasons described below.
  - The ambient temperature is not suited to charging.
  - The USB cable or Charging AC Adapter is not properly connected.
  - The battery is damaged.

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

### **Notes About the USB Cable**

- Do not use a USB cable other than the UC-E21. Using a USB cable other than the UC-E21 could result in overheating, fire or electric shock.
- Make sure that the plugs are properly oriented. Do not insert or remove the plugs at an angle when connecting or disconnecting them.

### **Notes About Charging the Battery**

- The camera can be operated while the battery is charging, but the charging time increases.
- If the battery level is extremely low, you may not be able to operate the camera while the battery is charging.
- Do not, under any circumstances, use another make or model of AC adapter other than Charging AC Adapter EH-71P, and do not use a commercially available USB-AC adapter or a battery charger for a mobile phone. Failure to observe this precaution could result in overheating or in damage to the camera.

### **Charging Using a Computer or Battery Charger**

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

# Turn the Camera On and Set the Display Language, Date, and Time

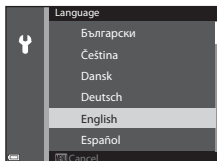
When the camera is turned on for the first time, the language-selection screen and the date and time setting screen for the camera clock are displayed.

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

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




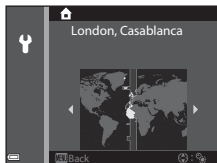
## 2 Use the multi selector ▲▼ to select the desired language and press the OK button.



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

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

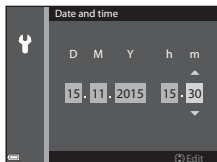
- Press ▲ to display  above the map and enable daylight saving time. Press ▼ to disable it.



## 5 Use ▲▼ to select the date format and press the OK button.

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


- Use **◀▶** to select a field and then use **▲▼** to set the date and time.
- Select the minute field and press the **OK** button to confirm the setting.




## 7 When the confirmation dialog is displayed, use **▲▼** to select **Yes** and press the **OK** button.

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

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

- You can change these settings using the **Language** and **Time zone and date** settings in the **Y** setup menu (76).
- You can enable or disable daylight saving time in the **Y** 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**

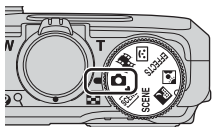
- The camera's clock is powered by a built-in backup battery. The backup battery charges when the main battery is inserted into the camera or when the camera is connected to an optional AC adapter, and it can run the clock for several days after about 10 hours of charging.
- If the camera's backup battery becomes exhausted, the date and time setting screen is displayed when the camera is turned on. Set the date and time again (10).




# Basic Shooting and Playback Operations

## Shooting with (Auto) Mode

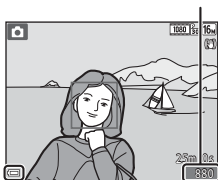
### 1 Rotate the mode dial to .

- The camera enters  (auto) mode and can be used for general shooting.



- Battery level indicator  
: The battery level is high.  
: The battery level is low.
- Number of exposures remaining  
 is displayed when no memory card is inserted in the camera, and images are saved in the internal memory.

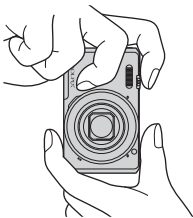
Number of exposures remaining



Battery level indicator

### 2 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.

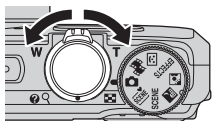




### 3 Frame the picture.

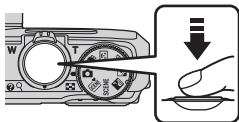
- Move the zoom control to change the zoom lens position.

Zoom out      Zoom in



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

- When the subject is in focus, the focus area or focus indicator is displayed in green.
- When you are using digital zoom, the camera focuses in the center of the frame and the focus area is not displayed.
- If the focus area or focus indicator flashes, the camera is unable to focus. Modify the composition and try pressing the shutter-release button halfway again.



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




## Notes About Saving Images or Movies

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

## The Auto Off Function

- When no operations are performed for about one minute, the monitor turns off, the camera enters standby mode, and then the power-on lamp flashes. The camera turns off after remaining in standby mode for about three minutes.
- To turn the monitor back on while the camera is in standby mode, perform an operation such as pressing the power switch or shutter-release button.

## When Using a Tripod

- We recommend using a tripod to stabilize the camera in the following situations:
  - When shooting in dim lighting with the flash mode (📖20) set to  (off)
  - When the zoom is at a telephoto position
- When using a tripod to stabilize the camera during shooting, set **Photo VR** to **Off** in the setup menu (📖76) to prevent potential errors caused by this function.

## Using the Zoom

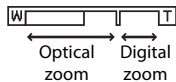
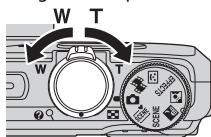
When you move the zoom control, the zoom lens position changes.

- To zoom in: Move toward **T**
- To zoom out: Move toward **W**

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

- A zoom indicator is displayed on the shooting screen when the zoom control is moved.
- Digital zoom, which allows you to further magnify the subject up to approximately 4x 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.

Wide-angle      Telephoto





### Digital Zoom


The zoom indicator changes to blue when the digital zoom is activated, and it changes to yellow when the zoom magnification is increased further.


- Zoom indicator is blue: Image quality is not noticeably reduced by using the Dynamic Fine Zoom.
- Zoom indicator is yellow: There may be cases in which image quality is noticeably reduced.
- The indicator remains blue across a wider area when the image size is smaller.
- The zoom indicator may not change to blue when using certain continuous shooting settings or other settings.

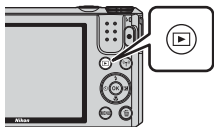
## The Shutter-release Button

<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 a picture. 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>

# Play Back Images

**1** Press the  (playback) button to enter playback mode.

- If you press and hold down the  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

- When  is displayed in full-frame playback mode, you can press the  button to apply an effect to the image.



- Move the zoom control toward **T** (Q) in full-frame playback mode to zoom in on an image.

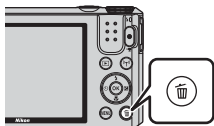


- In full-frame playback mode, move the zoom control toward **W** (Q) to switch to thumbnail playback mode and display multiple images on the screen.

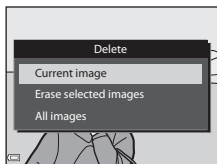


# Delete Images

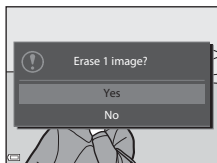
- 1 Press the  (delete) button to delete the image currently displayed in the monitor.






- 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.



## Deleting Images Captured Continuously (Sequence)

- Images captured continuously are saved as a sequence, and only the first image of the sequence (the key picture) is displayed in playback mode.
- If you press the  button while a key picture is displayed for a sequence of images, all images in the sequence are deleted.
- To delete individual images in a sequence, press the  button to display them one at a time and press the  button.



## Deleting the Image Captured While in Shooting Mode

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

## 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.

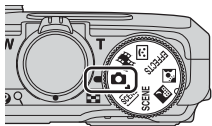


**2** Add 🗑️ to all images that you want to delete and then press the **OK** button to confirm the selection.

- A confirmation dialog is displayed. Follow the on-screen instructions to complete operations.

## Changing the Shooting Mode

Rotate the mode dial to select one of the following shooting modes.



- **📷 (Auto) mode**

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

- **🌄, SCENE, 🏠, 🌃 (Scene) modes**

Camera settings are optimized according to the scene that you select.

- **🌄** (scene auto selector): The camera automatically recognizes the shooting scene when you frame a picture, making it easier to shoot pictures using settings that suit the scene.

- **SCENE**: Press the **MENU** button and select a scene.

In time-lapse movie scene mode, the camera can automatically capture 300 still images at a specified interval to create time-lapse movies (**1080 P 30 1080/30p**) that are approximately 10 seconds long.

- **🏠** (night landscape): Use this mode to shoot night landscapes.

- **🌃** (backlighting): Fill flash fires to prevent the backlit subject from being hidden in shadow, or the HDR function can be used to shoot scenes with high contrast.

- **EFFECTS (Special effects) mode**

Effects can be applied to images during shooting. Press the **MENU** button to select the effect.

- **😊 (Smart portrait) mode**

Use glamour retouch to enhance human faces during shooting, and use the smile timer or self-collage function to take pictures.

- **🎬 (Short movie show) mode**

You can create a short movie (**1080 P 30 1080/30p** or **1080 P 25 1080/25p**) that is up to 30 seconds long by recording and automatically combining multiple movie clips that are several seconds long.

## Using the Flash, Self-timer, Etc.

When the shooting screen is displayed, you can press the multi selector ▲ (⚡) ◀ (🕒) ▼ (🌸) ▶ (☞) (☞) to set the functions described below.



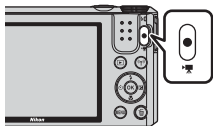
- **⚡ Flash mode**  
You can select a flash mode to match the shooting conditions.
- **🕒 Self-timer**  
The camera releases the shutter 10 seconds or 2 seconds after you press the shutter-release button.
- **🌸 Macro mode**  
Use macro mode when you take close-up pictures.
- **☞ Creative slider (☞ brightness (exposure compensation), 🎚️ vividness, and 🎚️ hue)**  
In 📷 (auto) mode, you can adjust overall image brightness, vividness, and hue.  
In scene mode, special effects mode, or short movie show mode, you can adjust overall image brightness (exposure compensation).  
In smart portrait mode, you can apply glamour retouch to enhance human faces.

The functions that can be set vary depending on the shooting mode.

## Recording Movies

Display the shooting screen and press the ● (🎥) (movie-record) button to start recording a movie. Press the ● (🎥) button again to end recording.

- To play back a movie, select a movie in full-frame playback mode and press the OK button.



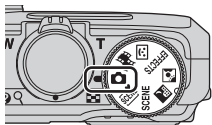


# Shooting Features

## (Auto) Mode

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

- You can change how the camera selects the area of the frame to focus on by changing the **AF area mode** setting (📖85).  
The default setting is **Target finding AF** (📖52).

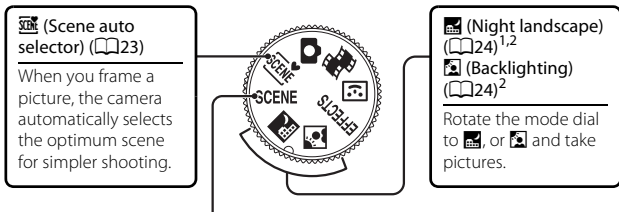


## Functions Available in (Auto) Mode

- Flash mode (📖41)
- Self-timer (📖43)
- Macro mode (📖45)
- Creative slider (📖46)
- Shooting menu (📖78)

## Scene Mode (Shooting Suited to Scenes)

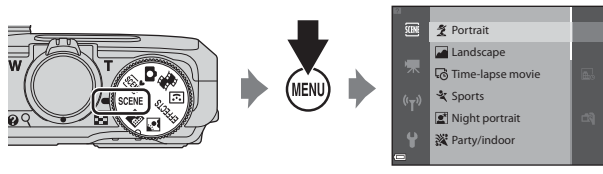
When a scene is selected, camera settings are automatically optimized for the selected scene.



### SCENE (Scene)

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

👤 Portrait (default setting)	🌅 Sunset <sup>2,3</sup>
🏞️ Landscape <sup>1,2</sup>	🌆 Dusk/dawn <sup>1,2,3</sup>
🕒 Time-lapse movie (📖28)	🍷 Close-up (📖26)
🏃 Sports (📖25) <sup>2</sup>	🍴 Food (📖26)
🌃 Night portrait (📖25)	🎆 Fireworks show (📖26) <sup>1,3</sup>
🎉 Party/indoor (📖25) <sup>2</sup>	🏞️ Easy panorama (📖30)
🏖️ Beach <sup>2</sup>	🐕 Pet portrait (📖27)
❄️ Snow <sup>2</sup>	



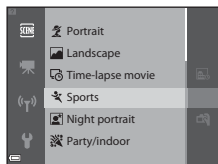
<sup>1</sup> The camera focuses at infinity.

<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 **Photo VR** (📖111) to **Off** in the setup menu when using a tripod to stabilize the camera during shooting.

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











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



## Tips and Notes







### Scene auto selector

- When you point the camera at the subject, the camera automatically recognizes the shooting 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 large numbers of people, or images in which the background takes up a large portion of the frame)
	Landscape
	Night portrait (for taking close-up portraits of one or two people)
	Night portrait (for taking portraits of large numbers of people, or images in which the background takes up a large portion of the frame)
	Night landscape
	Close-up
	Backlighting (for taking pictures of subjects other than people)
	Backlighting (for taking portrait pictures)
	Other scenes

- The focus area depends on the composition of the image. When the camera detects a human face, it focuses on that face (📖53).
- Depending on shooting conditions, the camera may not select the desired scene mode. In this case, select another shooting mode (📖19).

## Night landscape

- Press the **MENU** button, and select  **Hand-held** or  **Tripod** from **Night landscape**.
-  **Hand-held** (default setting):
  - While the  icon on the shooting screen is displayed in 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 a picture, do not turn the camera off before the monitor switches to the shooting screen.
  - The angle of view (i.e., the area visible in the frame) seen in the saved image 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 **Photo VR** ( 111) in the setup menu is set to **On**.








## Backlighting

- Press the **MENU** button, and select **On** or **Off** to enable or disable **HDR** (high dynamic range) composition from **Backlighting** based on the type of image you want to capture.
- **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 pictures 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 ( 64) 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 a picture, do not turn the camera off before the monitor switches to the shooting screen.
  - The angle of view (i.e., the area visible in the frame) seen in the saved image is narrower than that seen in the monitor at the time of shooting.


## SCENE → Sports

- While the shutter-release button is held all the way down, the camera shoots up to about 7 images continuously at a rate of about 7.9 fps (when image mode is set to **16M**).
- The frame rate for continuous shooting may vary depending on the current image mode setting, the memory card used, or shooting conditions.
- Focus, exposure, and hue are fixed at the values determined with the first image in each series.

## SCENE → Night portrait

- On the screen displayed when  **Night portrait** is selected, select  **Hand-held** or  **Tripod**.
-  **Hand-held** (default setting):
  - While the  icon on the shooting screen is displayed in 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 a picture, 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 **Photo VR** ( 111) in the setup menu is set to **On**.

## SCENE → Party/indoor

- To avoid the effects of camera shake, hold the camera steady. Set **Photo VR** ( 111) to **Off** in the setup menu when using a tripod to stabilize the camera during shooting.

## SCENE → 🍷 Close-up

- Macro mode (📖45) is enabled and the camera automatically zooms to the closest position at which it can focus.
- You can move the focus area. Press the **OK** button, use the multi selector **▲▼◀▶** to move the focus area, and press the **OK** button to apply the setting.

## SCENE → 🍴 Food





- Macro mode (📖45) 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 **OK** button, use the multi selector **▲▼◀▶** to move the focus area, and press the **OK** button to apply the setting.





## SCENE → 🎆 Fireworks show


- The shutter speed is fixed at 4 seconds.
- The zoom is restricted to 4 fixed positions.

## SCENE → 🐾 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 camera detects a dog or cat face and automatically releases the shutter (pet portrait auto release).
- On the screen displayed when 🐾 **Pet portrait** is selected, select  **Single** or  **Continuous**.
  -  **Single**: The camera captures one image when a dog or cat face is detected.
  -  **Continuous**: The camera captures three images continuously when a dog or cat face is detected.

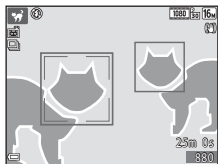
### ✔ **Pet Portrait Auto Release**

- Press the multi selector  to change the **Pet portrait auto release** setting.
  - : The camera detects a dog or cat face and automatically releases the shutter.
  - **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 5 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 pictures 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 changes to green. If no faces are detected, the camera focuses on the subject in the center of the frame.
- Under some shooting conditions, the pet face may not be detected and other subjects may be displayed inside a border.



## Shooting Time-lapse Movies

The camera can automatically capture 300 still images at a specified interval to create time-lapse movies (1080p 1080/30p) that are approximately 10 seconds long.

Rotate the mode dial to **SCENE** → **MENU** button →  Time-lapse movie → **OK** button

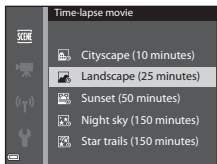
Type	Interval time	Recording time
 Cityscape (10 minutes) (default setting)	2 s	10 min
 Landscape (25 minutes)	5 s	25 min
 Sunset (50 minutes)	10 s	50 min
 Night sky (150 minutes) <sup>1, 2</sup>	30 s	2 h 30 min
 Star trails (150 minutes) <sup>2, 3</sup>	30 s	2 h 30 min

<sup>1</sup> Suited for recording the movement of stars. The focus is fixed at infinity.

<sup>2</sup> The zoom is restricted to 4 fixed positions.

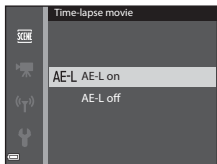
<sup>3</sup> Star movement appears as lines of light due to image processing. The focus is fixed at infinity.

**1** Use the multi selector ▲▼ to select a type, and press the **OK** button.



**2** Select whether or not to fix exposure (brightness), and press the **OK** button (except Night sky and Star trails).

- If **AE-L on** is selected, the exposure used for the first image is used for all images. Use of **AE-L off** is recommended when the changes in brightness of the subject are significant, such as in the twilight.

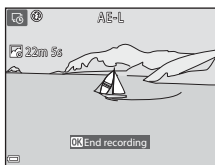




**3** Stabilize the camera by using a tool such as a tripod.

**4** Press the shutter-release button to capture the first image.

- Set exposure compensation (📖 49) before releasing the shutter for the first image. Exposure compensation cannot be changed after the first image is captured. Focus and hue are fixed when the first image is captured.
- The shutter is automatically released for the second and subsequent images.
- The monitor may turn off while the camera is not capturing images.
- Shooting ends automatically when 300 images are captured.
- To end shooting manually before 300 images are captured, press the **OK** button.
- Sound and still images cannot be saved.



#### **✓** Notes About Time-lapse Movie

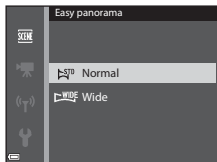
- The camera cannot capture images if a memory card is not inserted. Do not exchange the memory card until shooting is complete.
- Use a fully charged battery to prevent the camera from turning off unexpectedly.
- Time-lapse movies cannot be recorded by pressing the **●** (📷) button.
- Do not rotate the mode dial until shooting is complete.
- Vibration reduction is disabled even when **Photo VR** (📖 111) in the setup menu is set to **On**.

# Shooting with Easy Panorama

Rotate the mode dial to **SCENE** → **MENU** button → Easy panorama → **OK** button

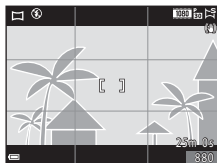
## 1 Select **STD Normal** or **WIDE Wide** as the shooting range and press the **OK** button.

- When the camera is readied in the horizontal position, the image size (width x height) is as follows:
  - **STD Normal**: 4800 x 920 when moved horizontally, 1536 x 4800 when moved vertically
  - **WIDE Wide**: 9600 x 920 when moved horizontally, 1536 x 9600 when moved vertically



## 2 Frame the first edge of the panorama scene, and then press the shutter-release button halfway to focus.

- The zoom position is fixed at wide-angle position.
- The camera focuses in the center of the frame.



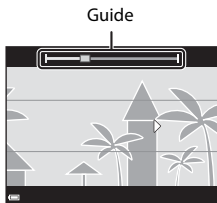
## 3 Press the shutter-release button all the way, and then remove your finger from the shutter-release button.

- $\triangle$   $\nabla$   $\leftarrow$   $\rightarrow$  are displayed to indicate the direction of camera movement.

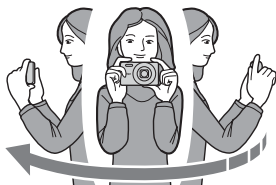


## 4 Move the camera in one of the four directions until the guide indicator reaches the end.

- When the camera detects which direction it is moving in, shooting begins.
- Shooting ends when the camera captures the specified shooting range.
- Focus and exposure are locked until shooting ends.



## Example of camera movement



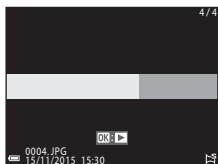
- Using your body as the axis of rotation, move the camera slowly in an arc, in the direction of the marking (△▽◀▶).
- Shooting stops if the guide does not reach the edge within about 15 seconds (when **STD Normal** is selected) or within about 30 seconds (when **WIDE Wide** is selected) after shooting starts.

### ✓ Notes About Easy Panorama Shooting

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

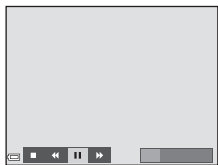
## Playback with Easy Panorama

Switch to playback mode (📖16), display an image captured using easy panorama in full-frame playback mode, and then press the **OK** button to scroll the image in the direction that was used when shooting.



Playback controls are displayed in the monitor during playback.

Use the multi selector **◀▶** to select a control, and then press the **OK** button to perform the operations described below.



Function	Icon	Description
Rewind		Hold down the <b>OK</b> button to scroll backward quickly.
Advance		Hold down the <b>OK</b> button to scroll forward quickly.
Pause		Pause playback. The operations listed below can be performed while paused.
		Hold down the <b>OK</b> button to rewind.
		Hold down the <b>OK</b> button to scroll.
		Resume automatic scrolling.
End		Switch to full-frame playback mode.

### ✓ Notes About Easy Panorama Images

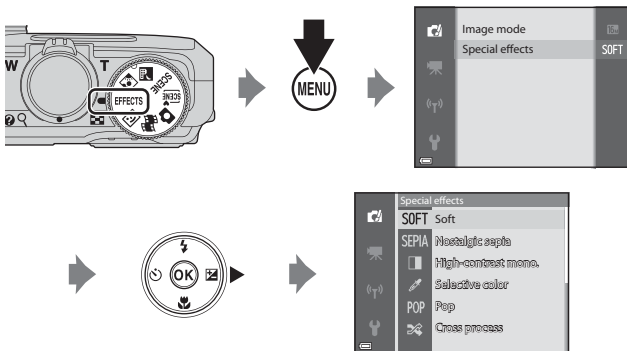
- The images cannot be edited on this camera.
- This camera may not be able to scroll the playback of, or zoom in on, easy panorama images captured with another make or model of digital camera.

### ✓ 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.



## Special Effects Mode (Applying Effects When Shooting)

Effects can be applied to images during shooting.



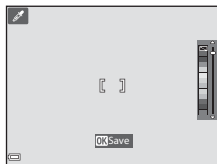
Press the **MENU** (menu) button to display the special effects menu and select an effect using the multi selector.

Type	Description
<b>SOFT</b> Soft* (default setting)	Softens the image by adding a slight blur to the entire image.
<b>SEPIA</b> Nostalgic sepia*	Adds a sepia tone and reduces the contrast to simulate the qualities of an old photograph.
High-contrast mono.*	Changes the image to black and white and gives it sharp contrast.
Selective color	Creates a black and white image in which only the specified color remains.
<b>POP</b> Pop	Increases the color saturation of the entire image to create a bright look.
Cross process	Gives the image a mysterious appearance based on a specific color.
Toy camera effect 1*	Gives the entire image a yellowish hue and darkens the image periphery.

Type	Description
 Toy camera effect 2*	Decreases the color saturation of the entire image and darkens the image periphery.
 Mirror*	Creates a bilaterally symmetric image whose right half is an inverted mirror image of the left half.

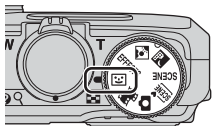
\* Certain **Movie options** (📖97) are not available.

- 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, and press the **OK** button to apply the color. To change the color selection, press the **OK** button again.



# Smart Portrait Mode (Enhancing Human Faces When Shooting)

You can take a picture with the glamour retouch function to enhance human faces.

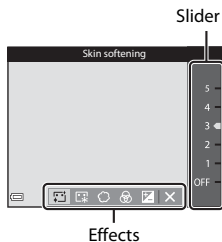


**1** Press the multi selector ►.



**2** Apply an effect.

- Use ◀▶ to select the desired effect.
- Use ▲▼ to select the amount of effect.
- You can simultaneously apply multiple effects.  
◻ Skin softening, ◻ Foundation makeup, ◻ Soft, ◻ Vividness, ◻ Brightness (Exp. +/-)
- Select ✕ Exit to hide the slider.
- After configuring the desired effects, press the OK button to apply them.



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



## ✓ Notes About Smart Portrait Mode

- The amount of effect may differ between the image on the shooting screen and the saved image.
- When **Soft** is set, some **Movie options** (📖97) are not available.

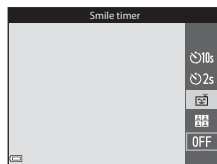
## Functions Available in Smart Portrait Mode

- Glamour retouch (📖35)
- Smile timer (📖36)
- Self-Collage (📖37)
- Flash mode (📖41)
- Self-timer (📖43)
- Smart portrait menu (📖89)

## Using Smile Timer

When you press the multi selector ◀ to select  **Smile timer** and press the  button, the camera automatically releases the shutter whenever a smiling face is detected.

- Set the glamour retouch function before selecting smile timer (📖35).
- When you press the shutter-release button to take a picture, smile timer is terminated.



### Notes About Smile Timer

- Under some shooting conditions, the camera may be unable to detect faces or smiles (📖53). The shutter-release button can also be used for shooting.
- This function may not be available to use in combination with other functions (📖56).

### 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.



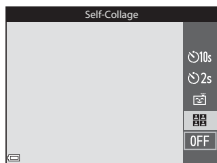
## Using Self-Collage

The camera can capture a series of 4 or 9 images at intervals and save them as a one-frame image (a collage image).



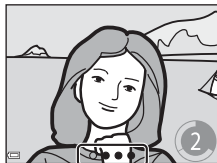
- 1 Press the multi selector ◀ to select  **Self-Collage**, and press the **OK** button.

- A confirmation dialog is displayed.
- When you press the **MENU** button and select **Self-Collage** before pressing ◀, you can configure the settings for **Number of shots**, **Interval**, and **Shutter sound** (📖89).
- If you want to apply glamour retouch when shooting, set the effect before selecting self-collage (📖35).



- 2 Take a picture.

- When you press the shutter-release button, a countdown starts (about five seconds) and the shutter is automatically released.
- The camera automatically releases the shutter for the remaining pictures. A countdown starts about three seconds before shooting.
- The number of shots is indicated by ○ in the monitor. It is displayed in green during shooting and it changes to white after shooting.
- When the camera finishes taking the specified number of shots, the collage image is saved.
- Each captured image is saved as an individual image separate from the collage image.

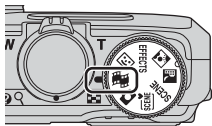


### ✓ Notes About Self-Collage

- If you press the shutter-release button before the camera takes the specified number of shots, shooting is canceled and the collage image is not saved. The pictures that were taken before shooting was canceled are saved as individual images.
- This function may not be available to use in combination with other functions (📖56).

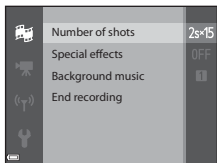
# Short Movie Show Mode (Combining Movie Clips to Create Short Movies)

You can create a short movie (1080 P 1080/30p or 1080 P 1080/25p) that is up to 30 seconds long by recording and automatically combining multiple movie clips that are several seconds long.



## 1 Press the MENU (menu) button and configure the settings for recording movies.

- **Number of shots:** Set the number of movie clips that the camera records and the recording time for each movie clip. By default, the camera records 15 movie clips that are 2 seconds each to create a 30-second short movie.
- **Special effects:** Apply various effects to movies when shooting (book 33). Effects can be changed for each movie clip.
- **Background music:** Select the background music. Move the zoom control (book 1) toward T (Q) to preview it.
- After the settings are complete, press the MENU button or shutter-release button to exit the menu.



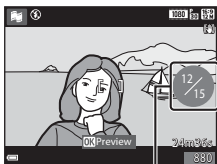
## 2 Press the (movie-record) button to record a movie clip.

- The camera stops recording the movie clip when the time specified in step 1 elapses.
- Movie clip recording can be paused temporarily. See "Pausing Movie Recording" (book 40).



## 3 Check the recorded movie clip, or delete it.

- To check it, press the OK button.
- To delete it, press the trash button. The last recorded movie clip or all movie clips can be deleted.
- To continue recording movie clips, repeat the operation in step 2.
- To change the effects, return to step 1.



Number of movie clips recorded


## 4 Save the short movie show.

- The short movie show is saved when the camera finishes recording the specified number of movie clips.
- To save a short movie show before the camera finishes recording the specified number of movie clips, press the **MENU** button on the shooting screen while a movie clip is not being recorded, and then select **End recording**.
- Movie clips are deleted when a short movie show is saved.

## Operations During Movie Clip Playback









To adjust the volume, move the zoom control while a movie clip is playing (📖1).

Playback controls are displayed in the monitor.

The operations described below can be performed by using the multi selector  to select a control and then pressing the **OK** button.





Playback controls

Function	Icon	Description
Rewind		Hold down the <b>OK</b> button to rewind the movie.
Advance		Hold down the <b>OK</b> button to advance the movie.
Pause		Pause playback. The operations listed below can be performed while paused.
		 Rewind the movie one frame. Hold down the <b>OK</b> button for continuous rewinding.
		 Advance the movie one frame. Hold down the <b>OK</b> button for continuous advancing.
		Resume playback.
End playback		Return to the shooting screen.
End recording		Save the short movie show using the recorded movie clips.





### Notes About Recording a Short Movie Show

- The camera cannot record movies if a memory card is not inserted.
- Do not exchange the memory card until a short movie show is saved.

## Pausing Movie Recording

- A still image ( **4608×2592**) can be captured if you press the shutter-release button on the shooting screen while a movie is not being recorded.
- You can pause movie recording and play back images or enter other shooting modes to take pictures. Movie recording resumes when you enter  (short movie show) mode again.

## Functions Available in Short Movie Show Mode

- Self-timer ( 43)
- Macro mode ( 45)
- Exposure compensation ( 49)
- Movie options menu ( 97)

# Flash Mode

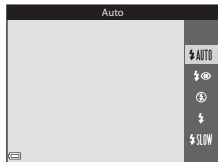
You can select a flash mode to match the shooting conditions.

- 1 Press the multi selector ▲ (⚡).



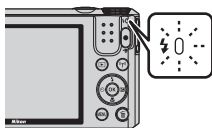
- 2 Select the desired flash mode (📖42) and press the OK button.

- If the 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 a picture is taken.
- If the battery level is low, the monitor turns off while the flash is charging.



## Available Flash Modes



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



### 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 (p.50).
- 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 some situations.
- In 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 picture again.

## Self-timer

The camera is equipped with a self-timer that releases the shutter 10 seconds or 2 seconds after you press the shutter-release button.

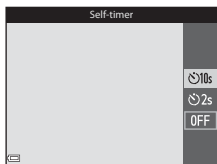
Set **Photo VR** (📖111) to **Off** in the setup menu when using a tripod to stabilize the camera during shooting.

**1** Press the multi selector ◀ (👁).



**2** Select 🕒10s or 🕒2s, and press the OK button.

- 🕒10s (10 seconds): Use on important occasions, such as weddings.
- 🕒2s (2 seconds): Use to prevent camera shake.
- If the setting is not applied by pressing the OK 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 (📖27). The self-timer cannot be used.
- When the shooting mode is smart portrait mode, 😊 (smile timer) or 📷 (self-collage) can also be selected (📖35).

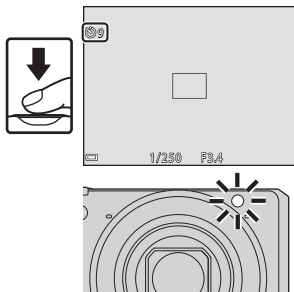


**3** Frame the picture and press the shutter-release button halfway.

- 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.





# Macro Mode (Taking Close-up Pictures)

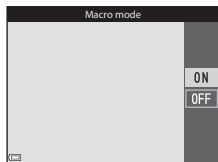
Use macro mode when taking close-up pictures.

- 1 Press the multi selector ▼ (🌿).



- 2 Select ON and press the OK button.

- If the 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 are displayed in green.



- When the zoom ratio is set to a position where the zoom indicator is displayed in 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 1 cm (0.4 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 (📖50).
- If the setting is applied in 📷 (auto) mode, it will remain saved in the camera's memory even after the camera is turned off.









# Creative Slider (Adjusting Brightness (Exposure Compensation), Vividness, and Hue)

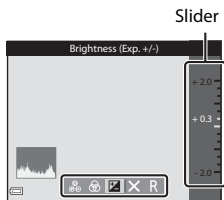
When the shooting mode is set to  (auto) mode, use the creative slider to adjust brightness (exposure compensation), vividness, and hue for capturing images.



- 1 Press the multi selector .




- 2 Select the item and make an adjustment.

-  : Select an item.
  - : "Brightness (Exposure Compensation)" (47)
  - : "Vividness (Saturation Adjustment)" (48)
  - : "Hue (White Balance Adjustment)" (48)
-  : The slider moves. The effect can be adjusted while confirming the results on the monitor.
- To turn off the effects of the creative slider, select **R** and press the  button.



- 3 When adjustment is complete, select  and press the  button.

- If the  button (except when **R** is selected) or the shutter-release button is pressed in step 2, the selected amount of effect is applied. When the effect is applied, the camera returns to the shooting screen.



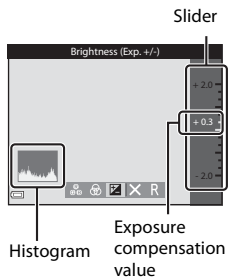
## Creative Slider Settings

The settings for Brightness (Exp. +/-), Vividness and Hue are saved in the camera's memory even after the camera is turned off.

## Brightness (Exposure Compensation)

Adjust the overall brightness of the image.

- To brighten the image, set a positive (+) value.
- To darken the image, set a negative (-) value.



### Using the Histogram

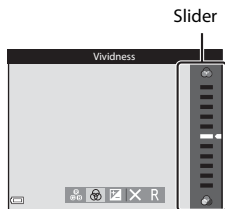
A histogram is a graph showing the distribution of tones in the image. Use as a guide when using exposure compensation and shooting without the flash.

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

## Vividness (Saturation Adjustment)

Adjust the overall vividness of the image.

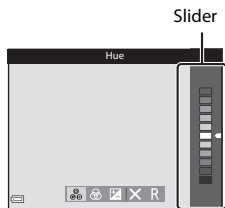
- The overall image vividness increases as the slider is moved up. The overall image vividness decreases as the slider is moved down.



## Hue (White Balance Adjustment)

Adjust the overall hue of the image.

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



### ✓ Notes About Hue Adjustment

This function may not be available to use in combination with other functions (p.50).

# Exposure Compensation (Adjusting Brightness)

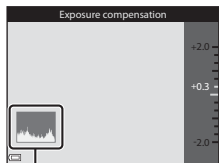
When the shooting mode is set to scene mode, special effects mode or short movie show mode, you can adjust the brightness (exposure compensation).

- 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.























































Histogram

## Exposure Compensation Value

The setting may not be available with some shooting modes (📖50).

## Default Settings (Flash, Self-timer, Etc.)

Default settings for each shooting mode are listed below.

	Flash (  41)	Self-timer (  43)	Macro (  45)	Exposure compensation (  49)
 (auto)	 AUTO	OFF	OFF	- <sup>1</sup>
 (scene auto selector)	 AUTO <sup>2</sup>	OFF	OFF <sup>3</sup>	0.0
 (night landscape)	 <sup>4</sup>	OFF	OFF <sup>4</sup>	0.0
 (backlighting)	 /  <sup>5</sup>	OFF	OFF <sup>4</sup>	0.0
<b>SCENE</b>				
 (portrait)	 	OFF	OFF <sup>4</sup>	0.0
 (landscape)	 <sup>4</sup>	OFF	OFF <sup>4</sup>	0.0
 (time-lapse movie)	 <sup>4</sup>	OFF	OFF <sup>4</sup>	0.0 <sup>6</sup>
 (sports)	 <sup>4</sup>	OFF <sup>4</sup>	OFF <sup>4</sup>	0.0
 (night portrait)	  <sup>4</sup>	OFF	OFF <sup>4</sup>	0.0
 (party/indoor)	  <sup>7</sup>	OFF	OFF <sup>4</sup>	0.0
 (beach)	 AUTO	OFF	OFF <sup>4</sup>	0.0
 (snow)	 AUTO	OFF	OFF <sup>4</sup>	0.0
 (sunset)	 <sup>4</sup>	OFF	OFF <sup>4</sup>	0.0
 (dusk/dawn)	 <sup>4</sup>	OFF	OFF <sup>4</sup>	0.0
 (close-up)	 <sup>4</sup>	OFF	ON <sup>4</sup>	0.0
 (food)	 <sup>4</sup>	OFF	ON <sup>4</sup>	0.0
 (fireworks show)	 <sup>4</sup>	OFF <sup>4</sup>	OFF <sup>4</sup>	0.0 <sup>4</sup>
 (easy panorama)	 <sup>4</sup>	OFF <sup>4</sup>	OFF <sup>4</sup>	0.0
 (pet portrait)	 <sup>4</sup>	 <sup>8</sup>	OFF	0.0
<b>EFFECTS</b> (special effects)	 <sup>4</sup>	OFF	OFF	0.0
 (smart portrait)	 AUTO <sup>9</sup>	OFF <sup>10</sup>	OFF <sup>4</sup>	- <sup>11</sup>
 (short movie show)	 <sup>4</sup>	OFF	OFF	0.0

- 1 Creative slider is displayed (📖46).
- 2 The camera automatically selects the flash mode appropriate for the scene it has selected. 🚫 (off) can be selected manually.
- 3 Cannot be changed. The camera enters macro mode when 📷 is selected.
- 4 Cannot be changed.
- 5 Flash is fixed at ⚡ (fill flash) when **HDR** is set to **Off**, and is fixed at 🚫 (off) when **HDR** is set to **On**.
- 6 Cannot be changed when Night sky or Star trails is used.
- 7 Slow sync with red-eye reduction flash mode may be used.
- 8 Self-timer cannot be used. Pet portrait auto release can be set to **ON** or **OFF** (📖27).
- 9 Cannot be used when **Blink proof** is set to **On**.
- 10 Other than self-timer, 📷 (smile timer) (📖36) and 📷 (self-collage) (📖37) can be also used.
- 11 Glamour retouch is displayed (📖35).

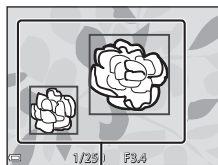
# Focusing

The focus area varies depending on the shooting mode.

## Using Target Finding AF

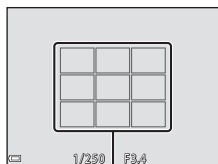
When **AF area mode** (📖85) in 📷 (auto) mode is set to **Target finding AF**, the camera focuses in the manner described below when you press the shutter-release button halfway.

- The camera detects the main subject and focuses on it. When the subject is in focus, the focus area is displayed in green. If a human face is detected, the camera automatically sets focus priority on it.



Focus areas

- If no main subject is detected, the camera automatically selects one or more of the 9 focus areas containing the subject closest to the camera. When the subject is in focus, the focus areas that are in focus are displayed in green.



Focus areas

### ✓ Notes About Target Finding AF

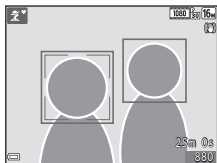
- Depending on shooting conditions, the subject that the camera determines to be the main subject may vary.
- The main subject may not be detected when using certain **White balance** settings.
- The camera may not detect the main subject appropriately in the following situations:
  - When the subject 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.

- **SCN** (scene auto selector) mode (📖23)
- **Portrait** or **Night portrait** scene mode (📖22)
- Smart portrait mode (📖35)
- When **AF area mode** (📖85) in **☑** (auto) mode (📖21) 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 **SCN** (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 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 cannot 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 3 faces).

- Smart portrait mode (📖35)
  - The skin softening level can be adjusted by the glamour retouch function.
- **SCN** (scene auto selector) mode (📖23)
- **Portrait** or **Night portrait** scene mode (📖22)

Editing functions such as **Skin softening** can be applied to saved images by using **Glamour retouch** (📖66) 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 rare cases, the subject may not be in focus despite the fact that the focus area or the focus indicator is displayed in 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 (📖55).

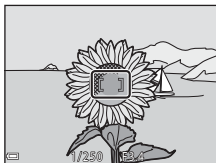
## Focus Lock

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 ( 85).

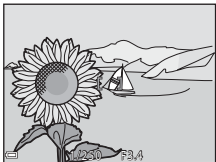
**2** Position the subject in the center of the frame and press the shutter-release button halfway.

- The camera focuses on the subject and the focus area is displayed in green.
- Exposure is also 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.



## Functions That Cannot Be Used Simultaneously When Shooting

Some functions cannot be used with other menu options.

Restricted function	Option	Description
Flash mode	Continuous (📖82)	When a setting other than <b>Single</b> is selected, the flash cannot be used.
	Blink proof (📖90)	When <b>Blink proof</b> is set to <b>On</b> , the flash cannot be used.
Self-timer	AF area mode (📖85)	When <b>Subject tracking</b> is selected, the self-timer cannot be used.
Macro mode	AF area mode (📖85)	When <b>Subject tracking</b> is selected, macro mode cannot be used.
Image mode	Continuous (📖82)	<p><b>Image mode</b> is set as follows depending on the continuous shooting setting:</p> <ul style="list-style-type: none"> <li>• <b>Pre-shooting cache:</b>  <b>2M 1600×1200</b></li> <li>• <b>Continuous H: 120 fps:</b>  <b>VGA 640×480</b></li> <li>• <b>Continuous H: 60 fps:</b> <b>1M</b>                      (image size: 1280 × 960 pixels)</li> </ul>
White balance	Hue of creative slider (📖48)	When the hue is adjusted using the creative slider, the <b>White balance</b> in the shooting menu cannot be specified. To specify <b>White balance</b> , select <b>R</b> in the setting screen of the creative slider and reset the settings of brightness, vividness, and hue.
Continuous	Self-timer (📖43)	If the self-timer is used when <b>Pre-shooting cache</b> is selected, the setting is fixed at <b>Single</b> .

Restricted function	Option	Description
ISO sensitivity	Continuous (📖82)	When <b>Pre-shooting cache</b> , <b>Continuous H: 120 fps</b> , or <b>Continuous H: 60 fps</b> is selected, <b>ISO sensitivity</b> is fixed at <b>Auto</b> .
AF area mode	White balance (📖80)	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.
Self-Collage	Blink proof (📖90)	When <b>Blink proof</b> is set to <b>On</b> , <b>Self-Collage</b> cannot be used.
Blink proof	Self-Collage (📖37)	When <b>Self-Collage</b> is set, <b>Blink proof</b> cannot be used.
Date stamp	Continuous (📖82)	When <b>Pre-shooting cache</b> , <b>Continuous H: 120 fps</b> , or <b>Continuous H: 60 fps</b> is selected, date and time cannot be stamped on images.
Digital zoom	AF area mode (📖85)	When <b>Subject tracking</b> is selected, digital zoom cannot be used.
Shutter sound	Continuous (📖82)	When a setting other than <b>Single</b> is selected, the shutter sound is disabled.

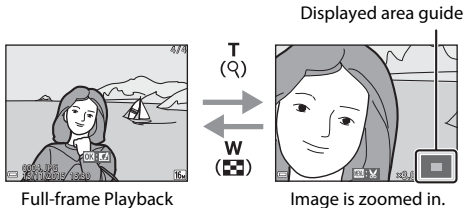
### ✓ Notes About Digital Zoom

- Depending on the shooting mode or the current settings, digital zoom may not be available (📖112).
- When digital zoom is in effect, the camera focuses in the center of the frame.

# Playback Features

## Playback Zoom

Moving the zoom control toward **T** (🔍 playback zoom) in full-frame playback mode (📖16) zooms in on the image.



- You can change the magnification rate by moving the zoom control toward **W** (📐) or **T** (🔍).
- To view a different area of the image, press the multi selector ▲▼◀▶.
- 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 (📖68).

## Thumbnail Playback/Calendar Display

Moving the zoom control toward **W** (🗪) thumbnail playback) in full-frame playback mode (📖16) displays images as thumbnails.






- You can change the number of thumbnails displayed by moving the zoom control toward **W** (🗪) or **T** (🕒).
- While using thumbnail playback mode, press the multi selector ▲▼◀▶ to select an image and then press the **OK** button to display that image in full-frame playback mode.
- While using calendar display mode, press ▲▼◀▶ to select a date and then press the **OK** button to display the images captured on that day.



### ✓ Notes About Calendar Display





Images captured when the camera's date is not set are treated as images captured on January 1, 2015.

## List by Date Mode

Press the  button (playback mode) → MENU button → MODE menu icon →  List by date →  button

Use the multi selector ▲▼ to select a date and then press the  button to play back the images captured on the selected date.

- Functions in the playback menu ( 91) can be used for the images in the selected shooting date (except **Copy**).
- The following operations are available while the shooting date selection screen is displayed.
  - **MENU** button: The functions listed below are available.
    - Slide show
    - Protect\*
    - \* The same setting can be applied to all images captured on the selected date.
  -  button: Deletes all images captured on the selected date.

List by date		
	30/11/2015	[ 3 ]
	25/11/2015	[ 2 ]
	20/11/2015	[ 11 ]
	15/11/2015	[ 4 ]

### Notes About List by Date Mode

- Up to the most recent 29 dates can be selected. If images exist for more than 29 dates, all images saved earlier than the most recent 29 dates will be combined under **Others**.
- The 9,000 most recent images can be displayed.
- Images captured when the camera's date is not set are treated as images captured on January 1, 2015.