

# Nikon

DIGITAL CAMERA

# COOLPIX S33


## User's Manual

Getting to Know Your Digital Camera



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### CAUTION

There are important notes about the waterproofing from pages 28 to 33.

Make sure that you read them carefully.

# Introduction



Read "For Your Safety" (pages 20-38) and all other instructions carefully with an adult before using your camera. Keep this manual where it will be read by all who use the camera.

## Downloading the "Reference Manual"

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The Reference Manual (PDF format) provides more details in various languages on how to use this camera. Download the Reference Manual from the Nikon website and refer to it along with this manual.

<http://nikonimglib.com/manual/>

- The Reference Manual can be viewed using Adobe Reader, available for free download from the Adobe website.

## Downloading ViewNX 2

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ViewNX 2 is free software that enables you to transfer images and movies to your computer so that you can view, edit, or share them.

To install ViewNX 2, download the ViewNX 2 installer from the Nikon website and follow the on-screen installation instructions.

<http://nikonimglib.com/nvnx/>

## Nikon User Support

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Should you need technical support, we offer a number of options.

### Internet

For customers in the United States: [www.nikonusa.com](http://www.nikonusa.com)

For customers in Canada: [www.nikon.ca](http://www.nikon.ca) (English), [fr.nikon.ca](http://fr.nikon.ca) (Français)

For customers in Mexico: [www.nikon.com.mx](http://www.nikon.com.mx)

For customers in Brazil: [www.nikon.com.br](http://www.nikon.com.br)

### Telephone

For customers in the United States: **1-800-NIKON-US (1-800-645-6687)**

For customers in Canada: **1-877-534-9910**

For customers in Mexico: **001-888-565-5452**

For customers in Brazil: **0800-886-4566 (0800-88 NIKON)**

## Confirming the Package Contents

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

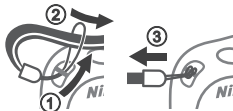
COOLPIX S33  
Digital Camera



Camera Strap<sup>1</sup>



(How to attach)



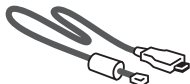
Rechargeable Li-ion  
Battery EN-EL19



Charging AC Adapter<sup>2</sup>



USB Cable UC-E21



Brush<sup>3</sup>



User's Manual:  
Getting to Know Your Digital Camera (this manual)

Warranty

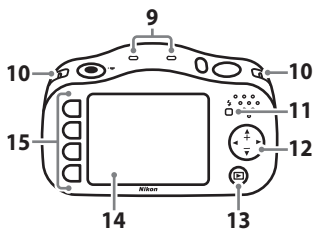
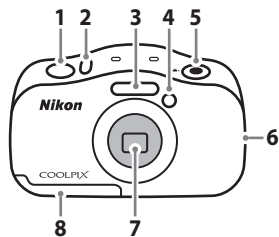
<sup>1</sup> Do not swing the camera by the strap. The camera could strike objects or people causing injury and damage to the camera.

<sup>2</sup> A plug adapter is included if the camera was purchased in a country or region that requires a plug adapter. The shape of the plug adapter varies with the country or region of purchase (page 6).

<sup>3</sup> The brush is used for cleaning the waterproof packing.

- Accessories are not waterproof.
- A memory card is not included with the camera. SD, SDHC, and SDXC memory cards are referred to as "memory cards" in this manual.

## Parts of the Camera



- 1 Shutter-release button
- 2 Power switch/  
power-on lamp
- 3 Flash
- 4 AF-assist illuminator/  
self-timer lamp
- 5 ● (movie-record) button
- 6 Speaker
- 7 Lens
- 8 Battery-chamber/  
memory card slot cover



- 9 Microphone
- 10 Eyelet for camera strap
- 11 Charge lamp/flash lamp
- 12 Multi selector
- 13 ▶ (shooting/playback  
mode) button
- 14 Monitor (Screen)
- 15 Flexible buttons\*

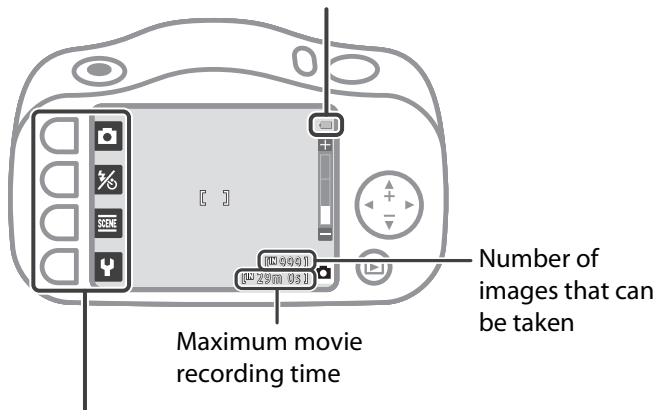
\* In this document, the flexible buttons are sometimes referred to as "flexible button 1" through "flexible button 4", in order from top to bottom.

## Using the Monitor

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### Battery level

- : The battery has enough power remaining.
- : The battery level is low.

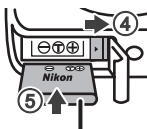
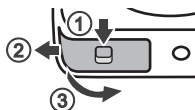


### Flexible buttons

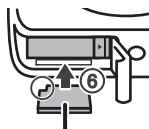
Press to select an item shown on the monitor.



## Inserting the Battery and Memory Card



Battery

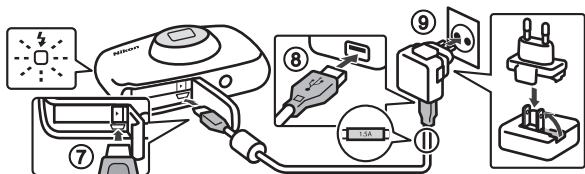


Memory card

- Look at the stickers and insert the battery and memory card the right way.

## Charging the Battery

- 1 Connect the camera to the Charging AC Adapter and to the electrical outlet.



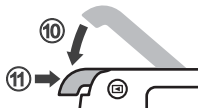
If a plug adapter\* is included with your camera, securely connect it to the Charging AC Adapter. Once the two are connected, attempting to forcibly remove the plug adapter could damage the product.

\* 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 battery starts charging, and the charge lamp flashes.
- When the battery is fully charged, the charge lamp turns off.
- Disconnect the Charging AC Adapter from the electrical outlet and then disconnect the cable.

## 2 Close the cover.

- Lay the cover completely flat in the direction indicated by the arrow ⑩, and fully slide it in ⑪.



### ✓ Notes About Opening and Closing the Cover

- Make sure the camera and your hands are not wet.
- Make sure that there is no debris, etc. inside the battery-chamber/memory card slot cover.
- Make sure that the battery-chamber/memory card slot cover is firmly closed.

### ✓ Notes About Charging and Replacing the Battery

- Only an adult should charge and replace the battery.
- Do not use any USB cable other than the UC-E21. Doing so 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.
- Do not, under any circumstances, use another make or model of AC adapter other than Charging AC Adapter EH-71P/EH-73P, 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.
- Refer to the information in "For Your Safety" (page 23) and "Caring for the Product" (page 34).

## 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.

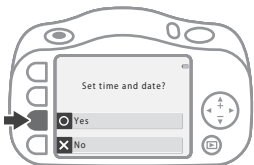
- To turn the camera off, press the power switch again.



- 2 Use the multi selector ◀ or ▶ to select the desired language and press **OK**.



- 3 Press **O** **Yes**.

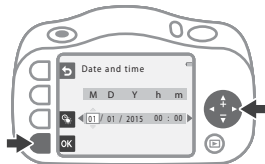


- 4 Select a date format.



**5** Set the date and time, and press **OK**.

- Use ◀ or ▶ to select a field and then use ▲ or ▼ to set the date and time.



- Select the minute field and press **OK** to confirm the setting.
- Press ☀ to display ☀ in the monitor and enable daylight saving time. To disable daylight saving time, press ☀ again.

**6** When the confirmation dialog is displayed, press **Yes**.

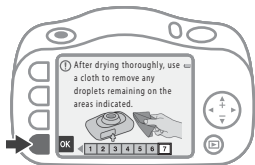
**7** Confirm the messages about the waterproofing and press ▶.

- There are seven message screens.



**8** Confirm the message on the screen shown at right and press **OK**.

- The shooting screen is displayed.



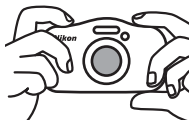


## Taking Pictures

- 1 Hold the camera steady and aim the camera so that you can see your subject in the monitor.



- Guide one hand through the camera strap and hold the camera steady with both hands.
- When taking pictures, be careful not to cover the flash or lens with your fingers.



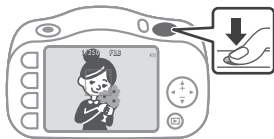
- 2 Press the shutter-release button slightly (halfway).

- The camera focuses.



- 3** Press the shutter-release button the rest of the way down.

- The camera captures an image.




## Using the Zoom

▲: Captures a bigger subject.

▼: Captures a wider view.




## Recording Movies

- 1** While  is displayed in the lower-right of the monitor, aim the camera so that you can see your subject in the monitor.

- Make sure you do not cover the microphone.



- 2** Press the  (movie-record) button.

- The camera starts recording a movie.



- 3** Press the  (movie-record) button again.

- The camera stops recording the movie.

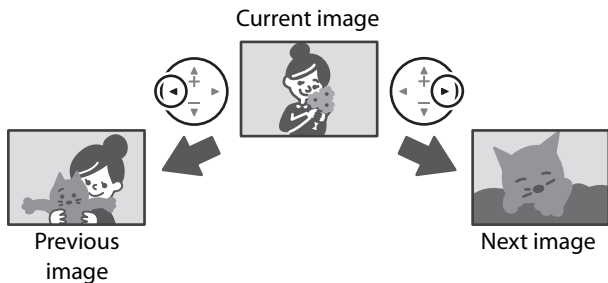


## Viewing Your Images

- 1 Press the **▶** (shooting/playback mode) button.
  - **▶** is displayed in the lower-right of the monitor.
  - The last picture you took is displayed.




- 2 Use the multi selector to look through your images.



- If you press the **▶** (shooting/playback mode) button again, **📷** is displayed in the lower-right of the monitor and the camera returns to the shooting screen.

## Deleting Images


- 1 When  is displayed in the lower-right of the monitor, look through your images and find an image you want to delete.

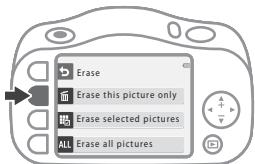


- 2 Press .



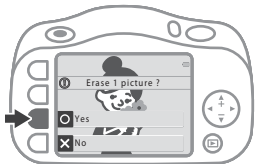
- 3 Press  **Erase this picture only.**

- Press  if you want to exit without deleting the image.



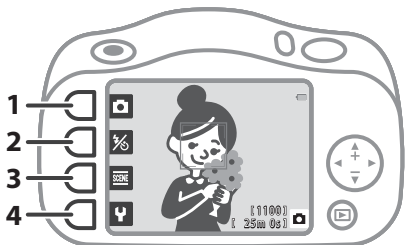
- 4 Press **O Yes.**

- If you delete an image, you cannot recover it.





## Things You Can Do When Shooting



- 1** Allows you to easily take beautiful pictures.
- 2** Allows you to set the flash, self-timer, and smile timer.
- 3** Allows you to shoot with settings suited to the selected style. You can also add borders to images or change the colors.
- 4** Allows you to change the camera's settings.

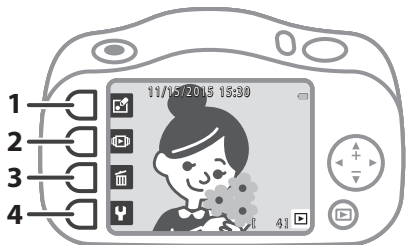
### Create a Diorama Effect /Shoot a Movie Miniature

( → → /SCENE → → )

You can take miniature-like pictures and movies with just a simple press of the shutter-release button.



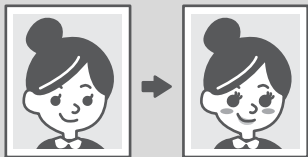
# Things You Can Do When Viewing



- 1** Allows you to edit images or add messages to images. You can also protect images from accidental deletion.
- 2** Allows you to select and view images from the calendar. In slide show, the images are displayed in order.
- 3** Allows you to delete images.
- 4** Allows you to change the camera's settings.

## Add Makeup → →


You can play with makeup effects such as adding cheek color, adding foundation, and making eyes larger.

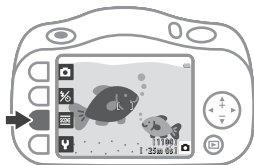


# Taking Pictures Underwater

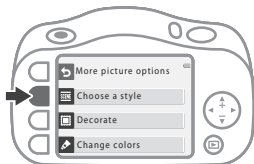
## Before Using the Camera Underwater


Read “Before Using the Camera Underwater” (page 30) and “Notes About Using the Camera Underwater” (page 30) thoroughly.

- 1 While  is displayed in the lower-right of the monitor, press **SCENE**.



- 2 Press **SCENE** **Choose a style**.



- 3 Press **◀** or **▶**, select  **Shoot under water** and press **OK**.

- The waterproofing-related message is displayed. Confirm the message and press **▶** to display the next message. Press **OK** to start shooting.





- 4 Press the shutter-release button.



### **Cleaning the Camera After Using It Underwater**



Read “Cleaning After Using the Camera Underwater” (page 31) thoroughly.

### **Underwater Face Framing (SCENE → SCENE → )**

The camera searches for human faces underwater and then automatically captures images. You can take pictures without submerging your face by putting only the camera underwater.



## Adding Voice Messages to Your Images

- 1 When  is displayed in the lower-right of the monitor, find the image you want to add a message to and press .




- 2 Press  **Exchange messages.**



- 3 Press  **Record.**



- 4 Press  **Leave a message.**
  - After you record a message, you can select **Leave a reply**.

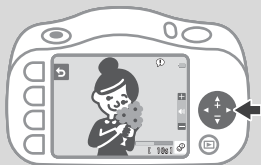


- 5** Record a message.
- : Press to start recording, and press again to stop recording. You can record for up to about 20 seconds.
  - ▶: Play back a message.
  - OK: Save your message.



### Play Recordings

- Select **Play recordings** in step 3 if you want to play back your message.
- Adjust the volume by pressing the multi selector ▲ or ▼.
- Press ↶ to stop playback.
- A reply can be recorded.



# For Your Safety

## 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.

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

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



### Before Taking Important Pictures

Before taking pictures on important occasions (such as at weddings or before taking the camera on a trip), take a test shot to ensure that the camera is functioning normally.

Nikon will not be held liable for damages or lost profits that may result from product malfunction.

## About the Manuals

- No part of the manuals included with this product may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form, by any means, without Nikon's prior written permission.
- 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).

## Notice Concerning Prohibition of Copying or Reproduction

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

### • Items prohibited by law from being copied or reproduced

Do not copy or reproduce paper money, coins, securities, government bonds or local government bonds, even if such copies or reproductions are stamped "Sample." The copying or reproduction of paper money, coins, or securities which are circulated in a foreign country is prohibited. Unless the prior permission of the government was obtained, the copying or reproduction of unused postage stamps or post cards issued by the government is prohibited.

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

### • Cautions on certain copies and reproductions

The government has issued cautions on copies or reproductions of securities issued by private companies (shares, bills, checks, gift certificates, etc.), commuter passes, or coupon tickets, except when a minimum of necessary copies are to be provided for business use by a company. Also, do not copy or reproduce passports issued by the government, licenses issued by public agencies and private groups, ID cards and tickets, such as passes and meal coupons.

### • Comply with copyright notices

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

## Disposing of Data Storage Devices

Please note that deleting images or formatting data storage devices such as memory cards or built-in camera memory does not completely erase the original image data.

Deleted files can sometimes be recovered from discarded storage devices using commercially available software, potentially resulting in the malicious use of personal image data. Ensuring the privacy of such data is the user's responsibility.

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

## Conformity Marking

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

Enter shooting mode or playback mode → flexible button 4 (Y) → flexible button 4 (Y Camera settings) → press ▲▼ → □ Conformity marking

## For Your Safety

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



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

### WARNINGS

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

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

#### **Do not disassemble**

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

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

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

#### **Handle the camera strap with care**


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

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

Particular care should be taken to prevent infants from putting the battery, brush, 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 or by using a Battery Charger MH-66 (available separately). To charge the battery with the camera, use either Charging AC Adapter EH-71P/EH-73P (included) or the **Charge by computer** function.
- When inserting the battery, do not attempt to insert it upside down or backwards.
- Do not short or disassemble the battery or attempt to remove or break the battery insulation or casing.
- Do not expose the battery to flame or to excessive heat.
- Do not immerse in or expose to water.
- Put the battery in 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.

 **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

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## **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.,

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## **Notice for Customers in Canada**

CAN ICES-3 B / NMB-3 B

## <Important> Shockproof, Waterproof, Dustproof, Condensation

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- Make sure to read the following instructions as well as the instructions provided in “Caring for the Product” (page 34).

### Notes About Shockproof Performance

This camera has passed Nikon’s in-house test (drop test from a height of 1.5 m (5 ft) on a 5 cm (2 in.) thick plywood panel) compliant with MIL-STD 810F Method 516.5-Shock\*.

This test does not guarantee the waterproof performance of the camera or that the camera will be free from damage or trouble under all conditions.

Changes in appearance, such as paint peeling off and deformation of the drop shock portion are not subject to the Nikon’s in-house test.

\* U.S. Department of Defense test method standard.

This drop test drops 5 cameras in 26 directions (8 edges, 12 corners, and 6 faces) from a height of 122 cm (48 in.) to make sure that one to five cameras pass the test (if any defect is detected during the test, another five cameras are tested to make sure that the test criteria are satisfied for one to five cameras).

- **Do not subject the camera to excessive shock, vibration or pressure by dropping or hitting it, or by placing heavy objects on it.**

Deformation may damage the airtight seals and water may seep inside the camera, resulting in camera malfunction.

- Do not use the camera deeper than 10 m (33 ft) underwater.
- Do not subject the camera to water pressure by exposing it to high-pressure running water.
- Do not sit down with the camera in the pocket of your trousers.  
Do not forcibly stuff the camera into a bag.

### Notes About Waterproof and Dustproof Performances

The camera is equivalent to IEC/JIS waterproof grade 8 (IPX8) and IEC/JIS dustproof grade 6 (IP6X) and enables shooting pictures underwater at a depth of 10 m (33 ft) for up to 60 minutes.\*

This rating does not guarantee the waterproof performance of the camera or that the camera will be free from damage or trouble under all conditions.

\* This rating indicates that the camera has been designed to withstand the specified water pressure for the specified period of time when the camera is used according to the methods defined by Nikon.

● **If the camera is subjected to excessive shock, vibration or pressure by dropping or hitting it, or by placing heavy objects on it, the waterproof performance is not guaranteed.**

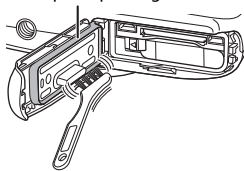
- If the camera is exposed to shocks, it is recommended to consult your retailer or Nikon-authorized service representative to confirm the waterproof performance (charged service).
  - Do not drop the camera, strike it against a hard object such as a rock, or throw it at a water surface.
  - Do not use the camera deeper than 10 m (33 ft) underwater.
  - Do not subject the camera to water pressure by exposing it to rapid flowing water or waterfalls.
  - Your Nikon warranty may not cover troubles caused by water seeping inside the camera due to improper handling of the camera.
- If water seeps inside the camera, immediately stop using the camera. Wipe off moisture from the camera, and at once take the camera to your Nikon-authorized service representative.
- The waterproof performance of this camera is designed to work for fresh water and seawater only.
- The inner portion of this camera is not waterproof. If water seeps inside the camera, this could cause the components to rust and result in a high repair charge or the camera may not be repairable.
- Accessories are not waterproof.
- If liquids or water droplets come into contact with the outside of the camera or the inside of the battery-chamber/memory card slot cover, immediately wipe the liquids off with a soft dry cloth. Do not insert wet memory cards or the battery.

If the battery-chamber/memory card slot cover is opened or closed under wet conditions near a waterfront or underwater, this could cause water to seep inside the camera or result in camera malfunction.

Do not open or close the cover with wet hands. This could cause water to seep inside the camera or result in camera malfunction.

- If a foreign substance adheres to the outside of the camera or the inside of the battery-chamber/memory card slot cover (such as the hinge, memory card slot, and connectors), remove it immediately with a blower. If a foreign substance adheres to the waterproof packing inside the battery-chamber/memory card slot cover, remove it with the included brush. Do not use the included brush for anything other than cleaning the waterproof packing.

**Waterproof packing**



- If a foreign substance such as suntan oil, sunscreen lotion, hot spring water, bath mix powder, detergent, soap, organic solvent, oil, or alcohol adheres to the camera, immediately wipe it off. Failure to do so may cause the camera exterior to deteriorate.
- Do not leave the camera in high-temperature conditions of 40°C (104°F) or more (in particular, a place exposed to direct sunlight, inside the cabin of a car, on a boat, on the beach, or near a heating device) for a long period of time. This could cause deterioration of the waterproof performance.

## Before Using the Camera Underwater

### 1 Make sure that there are no foreign substances inside the battery-chamber/ memory card slot cover.

- Any foreign substances such as sand, dust or hair inside the battery-chamber/memory card slot cover should be removed with a blower.
- Any liquid such as water droplets inside the battery-chamber/memory card slot cover should be wiped off with a soft dry cloth.

### 2 Make sure that the waterproof packing of the battery-chamber/memory card slot cover is not cracked or deformed.

- The waterproof performance of waterproof packing may start to deteriorate after one year. If the waterproof packing begins to deteriorate, consult your retailer or Nikon-authorized service representative.
- Also make sure that the waterproof packing does not come off.

### 3 Make sure that the battery-chamber/memory card slot cover is firmly closed.

- Slide the cover until it clicks into place.

## Notes About Using the Camera Underwater

### Observe the following precautions to prevent water from seeping inside the camera.

- Do not dive into water deeper than 10 m (33 ft) with the camera.
- Do not continuously use the camera underwater for 60 minutes or more.
- Use the camera in the water temperature range 0°C–40°C (32°F–104°F) when using it underwater.  
Do not use the camera at hot springs.
- Do not open or close the battery-chamber/memory card slot cover underwater.
- Do not subject the camera to shock when using it underwater.  
Do not jump into water with the camera or subject it to high water pressure conditions such as rapids or waterfalls.
- This camera does not float in water. Make sure not to drop the camera underwater.

## Cleaning After Using the Camera Underwater

After using the camera underwater or at the beach or other sandy or dusty environment, wipe off any sand, dust, or salt with a dry cloth lightly dampened with fresh water and dry thoroughly within 60 minutes. If you leave the camera in wet conditions where salt particles or other foreign substances adhere to it, this could cause damage, discoloration, corrosion, a bad smell or deterioration of waterproof performance.

To ensure long operational use, washing the camera by using the following procedure is recommended.

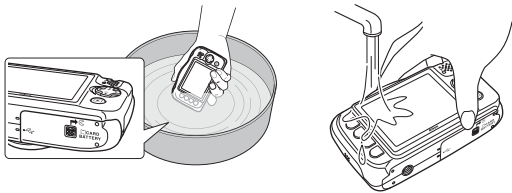
- Before cleaning the camera, thoroughly remove water droplets, sand, salt particles, or other foreign substances from your hands, body, and hair.
- It is recommended to clean the camera indoors to avoid a place where it could be exposed to water spray or sand.
- Do not open the battery-chamber/memory card slot cover until all foreign substances are washed off with water and all moisture is wiped off.

### 1 Keep the battery-chamber/memory card slot cover closed and wash off the camera with fresh water.

Lightly rinse the camera with tap water, or immerse the camera in a shallow basin filled with freshwater for about 10 minutes.

- If the buttons or switches do not operate properly, foreign substances may have adhered to the camera.

Foreign substances can cause the camera to malfunction; wash the camera thoroughly.



### 2 Wipe off water droplets with a soft cloth and dry the camera in the well-ventilated and shady place.

- Place the camera on a dry cloth to dry it. Water will flow out from openings in the microphone or speakers.
- Do not dry the camera with hot air from a hair dryer or clothes dryer.
- Do not use chemicals (such as benzene, thinner, alcohol, or cleanser), soap, or neutral detergents.

If the waterproof packing or body of the camera becomes deformed, the waterproof performance will deteriorate.

**3 After making sure that there are no water droplets on the camera, open the battery-chamber/memory card slot cover, gently wipe off any water remaining inside the camera with a dry soft cloth, and use the blower to remove any foreign substances.**

- If you open the cover before the camera is thoroughly dried, water droplets may fall on the memory card or battery.  
The water droplets may also seep inside the battery-chamber/memory card slot cover (in locations such as waterproof packing, hinges, memory card slot, or terminals).  
If that happens, wipe the water off with a dry soft cloth.
- If the cover is closed when the inside is wet, this could cause condensation or malfunction.
- If the microphone or speaker openings are clogged with water droplets, the sound may deteriorate or become distorted.
  - Wipe the water off with a dry soft cloth.
  - Do not puncture the microphone or speaker openings with a sharp implement. If the inside of the camera is damaged, the waterproof performance will deteriorate.



## Notes About Operating Temperature and Humidity and Condensation

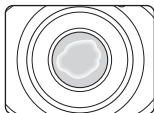
The operation of this camera has been tested at temperatures  $-10^{\circ}\text{C}$  –  $+40^{\circ}\text{C}$  ( $14^{\circ}\text{F}$ – $104^{\circ}\text{F}$ ).

When you use the camera in cold climate regions, observe the following precautions. Keep the camera and spare batteries in a warm place before use.

- The performance of the batteries (number of pictures shot and shooting time) will drop temporarily.
- If the camera is in a very cold state, the performance may drop temporarily, for example, the monitor may be darker than normal immediately after the camera is turned on or residual images may be produced.
- When snow or water droplets adhere to the exterior of the camera, immediately wipe them off.
  - If the buttons or switches are frozen, they may not operate smoothly.
  - If the microphone or speaker openings are clogged with water droplets, the sound may deteriorate or become distorted.

- **Operating environmental conditions such as temperature and humidity may cause fogging (condensation) on the inside of the monitor, lens, or flash window.**

**This is not a camera malfunction or defect.**



- **Environmental conditions that are likely to cause condensation inside of the camera**

Fogging (condensation) may occur on the inside of the monitor, lens, or flash window in the following environmental conditions where there are sharp temperature changes or high humidity.

- The camera is suddenly immersed in low temperature underwater from high temperature on land such as the beach or places under direct sunlight.
- The camera is moved from a cold place to a warm place, such as inside a building.
- The battery-chamber/memory card slot cover is open or closed in a high-humidity environment.

- **Clearing the fogging**

- Open the battery-chamber/memory card slot cover after turning off the camera in a place where the ambient temperature is stable (avoid any place that has high temperature/high humidity, sand or dust).
- To clear the fogging, remove the battery and memory card, and leave the camera with the battery-chamber/memory card slot cover open to allow the camera to adjust to the ambient temperature.
- If the fogging does not clear, consult your retailer or Nikon-authorized service representative.

# Caring for the Product

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Observe the precautions described below in addition to the warnings in "For Your Safety" (pages 23-25) and "<Important> Shockproof, Waterproof, Dustproof, Condensation" (pages 28-33) when using or storing the device.

## The Camera

### **Do Not Apply Strong Impact to the Camera**

The product may malfunction if subjected to strong shock or vibration. In addition, do not touch or apply force to the lens.

### **Avoid Sudden Changes in Temperature**

Sudden changes in temperature, such as when entering or leaving a heated building on a cold day, can cause condensation to form inside the device. To prevent condensation, place the device in a carrying case or a plastic bag before exposing it to sudden changes in temperature.

### **Keep Away from Strong Magnetic Fields**

Do not use or store this device in the vicinity of equipment that generates strong electromagnetic radiation or magnetic fields. Doing so could result in loss of data or camera malfunction.

### **Do Not Point the Lens at Strong Light Sources for Extended Periods**

Avoid pointing the lens at the sun or other strong light sources for extended periods when using or storing the camera. Intense light may cause the image sensor to deteriorate or produce a white blur effect in photographs.

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

Do not remove the battery while the product is on, or while images are being saved or deleted. Forcibly cutting power in these circumstances could result in loss of data or in damage to product memory or internal circuitry.

### **Notes About the Monitor**

- Monitors and electronic viewfinders are constructed with extremely high precision; at least 99.99% of pixels are effective, with no more than 0.01% being missing or defective. Hence while these displays may contain pixels that are always lit (white, red, blue, or green) or always off (black), this is not a malfunction and has no effect on images recorded with the device.
- Images in the monitor may be difficult to see under bright lighting.
- Do not apply pressure to the monitor, as this could cause damage or malfunction. Should the monitor break, care should be taken to avoid injury caused by broken glass and to prevent the liquid crystal from the display touching the skin or entering the eyes or mouth.

# The Battery

## Precautions for Use

- Note that the battery may become hot after use.
- Do not use the battery at ambient temperatures below 0°C (32°F) or above 40°C (104°F) as this could cause damage or malfunction.
- If you notice any abnormalities such as excessive heat, smoke, or an unusual smell coming from the battery, immediately discontinue use and consult your retailer or Nikon-authorized service representative.
- After removing the battery from the camera or optional battery charger, put the battery in a plastic bag, etc. in order to insulate it.

## Charging the Battery

Check the battery level before using the camera and replace or charge the battery if necessary.

- Charge the battery indoors with an ambient temperature of 5°C to 35°C (41°F to 95°F) before use.
- A high battery temperature may prevent the battery from charging properly or completely, and may reduce battery performance. Note that the battery may become hot after use; wait for the battery to cool before charging.

When charging the battery inserted into this camera using the Charging AC Adapter or a computer, the battery is not charged at battery temperatures below 5°C (41°F) or above 55°C (131°F).

- When the battery temperature is between 45°C–55°C (113°F–131°F), the chargeable capacity may decrease.
- Do not continue charging once the battery is fully charged as this will result in reduced battery performance.
- The battery temperature may increase during charging. However, this is not a malfunction.

## Carrying Spare Batteries

Whenever possible, carry fully charged spare batteries when taking pictures on important occasions.

## Using the Battery When Cold

On cold days, the capacity of batteries tends to decrease. If an exhausted battery is used at a low temperature, the camera may not turn on. Keep spare batteries in a warm place and exchange as necessary. Once warmed, a cold battery may recover some of its charge.

## Battery Terminals

Dirt on the battery terminals may prevent the camera from functioning. Should the battery terminals become dirty, wipe them off with a clean, dry cloth before use.

## Charging an Exhausted Battery

Turning the camera on or off while an exhausted battery is inserted in the camera may result in reduced battery life. Charge the exhausted battery before use.

## Storing the Battery

- Always remove the battery from the camera or optional battery charger when it is not being used. Minute amounts of current are drawn from the battery while it is in the camera, even when not in use. This may result in excessive battery drain and complete loss of function.
- Recharge the battery at least once every six months and completely exhaust it before returning it to storage.
- Put the battery in a plastic bag, etc. in order to insulate it and store it in a cool place. The battery should be stored in a dry location with an ambient temperature of 15°C to 25°C (59°F to 77°F). Do not store the battery in hot or extremely cold locations.

## Battery Life

A marked drop in the time a fully charged battery retains its charge, when used at room temperature, indicates that the battery needs to be replaced. Purchase a new battery.

## Recycling Used Batteries

Replace the battery when it no longer holds a charge. Used batteries are a valuable resource. Please recycle used batteries in accordance with local regulations.

## The Charging AC Adapter

- The Charging AC Adapter EH-71P/EH-73P is for use only with compatible devices. Do not use with another make or model of device.
- Do not use any USB cable other than the UC-E21. Using a USB cable other than the UC-E21 could result in overheating, fire or electric shock.
- Do not, under any circumstances, use another make or model of AC adapter other than Charging AC Adapter EH-71P/EH-73P, 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.
- The EH-71P/EH-73P is compatible with AC 100–240 V, 50/60 Hz electrical outlets. When using in other countries, use a plug adapter (commercially available) as necessary. For more information about plug adapters, consult your travel agency.

# Memory Cards

## Precautions for Use

- Use only Secure Digital memory cards. See “Approved Memory Cards” (page 44) for recommended memory cards.
- Be sure to follow the precautions described in the documentation included with the memory card.
- Do not put labels or stickers on memory cards.

## Formatting

- Do not format the memory card using a computer.
- The first time you insert a memory card that has been used in another device into this camera, be sure to format it with this camera. We recommend formatting new memory cards with this camera before using them with this camera.
- **Note that formatting a memory card permanently deletes all images and other data on the memory card.** Be sure to make copies of any images you wish to keep before formatting the memory card.
- If the message **Card is not formatted. Format card?** is displayed when the camera is turned on, the memory card must be formatted. If there is data that you do not want to delete, press flexible button 4 (**X No**). Copy the necessary data to a computer, etc. To start formatting, press flexible button 3 (**O Yes**).
- Do not perform the following during formatting, while data is being written to or deleted from the memory card, or during data transfer to a computer. Failure to observe this precaution could result in the loss of data or in damage to the camera or memory card:
  - Open the battery-chamber/memory card slot cover to remove/insert the battery or memory card.
  - Turn off the camera.
  - Disconnect the AC adapter.

# Cleaning and Storage

## Cleaning

Do not use alcohol, thinner, or other volatile chemicals.

Lens	Avoid touching glass parts with your fingers. Remove dust or lint with a blower (typically a small device with a rubber bulb attached to one end that is pumped to produce a stream of air out the other end). To remove fingerprints or other stains that cannot be removed with a blower, wipe the lens with a soft cloth, using a spiral motion that starts at the center of the lens and working toward the edges. If this fails, clean the lens using a cloth lightly dampened with commercial lens cleaner.
Monitor	Remove dust or lint with a blower. To remove fingerprints and other stains, clean the monitor with a soft, dry cloth, being careful not to apply pressure.
Body	<p>Use a blower to remove dust, dirt, or sand, then wipe gently with a soft, dry cloth.</p> <p>Do not stick sharp objects into the microphone or speaker holes. When the inside of the camera is damaged, waterproof performance will be lost.</p> <p>See "Notes About Waterproof and Dustproof Performances" (page 28) and "Cleaning After Using the Camera Underwater" (page 31) for more information.</p> <p><b>Note that foreign matter inside the camera could cause damage not covered by the warranty.</b></p>

## Storage

Remove the battery if the camera will not be used for an extended period. To prevent mold or mildew, take the camera out of storage at least once a month. Turn the camera on and release the shutter a few times before putting the camera away again. Do not store the camera in any of the following locations:

- Places that are poorly ventilated or subject to humidity of over 60%
- Exposed to temperatures above 50°C (122°F) or below -10°C (14°F)
- Next to equipment that produces strong electromagnetic fields, such as televisions or radios

For storing the battery, follow the precautions in "The Battery" (page 35) in "Caring for the Product" (page 34).

# Technical Notes

## Troubleshooting

If the camera fails to function as expected, check the list of common problems below before consulting your retailer or Nikon-authorized service representative. Also, refer to the Reference manual (PDF format) for further details on how to use this camera (page 2).

Problem	Cause/Solution
The camera is on but does not respond.	Wait for recording to end. If the problem persists, turn the camera off. If the camera does not turn off, remove and reinsert the battery or batteries or, if you are using an AC adapter, disconnect and reconnect the AC adapter. Note that although any data currently being recorded will be lost, data that have already been recorded will not be affected by removing or disconnecting the power source.
The camera cannot be turned on.	The battery is exhausted.
The camera turns off without warning.	<ul style="list-style-type: none"><li>• The camera automatically turns off to save power (auto off function).</li><li>• The camera and battery may not work properly at low temperatures.</li><li>• The inside of the camera has become hot. Leave the camera off until the inside of the camera has cooled, and then try turning it on again.</li></ul>
The monitor is blank.	<ul style="list-style-type: none"><li>• The camera is off.</li><li>• The camera automatically turns off to save power (auto off function).</li><li>• The flash lamp flashes while the flash is charging. Wait until charging is complete.</li><li>• The camera is connected to a TV or computer.</li></ul>
The camera becomes hot.	The camera may become hot when used for an extended period of time to shoot movies or when used in a hot environment; this is not a malfunction.

# Specifications

## Nikon COOLPIX S33 Digital Camera

Type	Compact digital camera
Number of effective pixels	13.2 million (Image processing may reduce the number of effective pixels.)
Image sensor	$1/3.1$ -in. type CMOS; approx. 14.17 million total pixels
Lens	NIKKOR lens with 3x optical zoom
Focal length	4.1–12.3 mm (angle of view equivalent to that of 30–90 mm lens in 35mm [135] format)
f/-number	f/3.3–5.9
Construction	6 elements in 5 groups
Digital zoom magnification	Up to 4x (angle of view equivalent to that of approx. 360 mm lens in 35mm [135] format)
Vibration reduction	Electronic VR (movies)
Motion blur reduction	Electronic VR (still images)
Autofocus (AF)	Contrast-detect AF
Focus range	<ul style="list-style-type: none"><li>• [W]: Approx. 5 cm (2 in.)–<math>\infty</math>, [T]: Approx. 50 cm (1 ft 8 in.)–<math>\infty</math></li><li>• <b>Shoot close-ups, Photograph food, Shoot under water, Mirror, Add a bubble effect, Add a neon effect, Add a cartoon effect, Take soft pictures, Create a diorama effect, Shoot a movie miniature, Highlight colors:</b> Approx. 5 cm (2 in.) (wide-angle position)–<math>\infty</math></li></ul> (All distances measured from center of front surface of the protective glass)
Focus-area selection	Center, face detection, target finding AF
Monitor	6.7 cm (2.7-in.), approx. 230k-dot, TFT LCD with anti-reflection coating and 5-level brightness adjustment
Frame coverage (shooting mode)	Approx. 96% horizontal and vertical (compared to actual picture)
Frame coverage (playback mode)	Approx. 100% horizontal and vertical (compared to actual picture)



<b>Storage</b>	
Media	Internal memory (approx. 25 MB), SD/SDHC/SDXC memory card
File system	DCF and Exif 2.3 compliant
File formats	Still images: JPEG Voice messages: WAV Movies: MOV (Video: H.264/MPEG-4 AVC, Audio: PCM stereo)
Image size (photo size)	<ul style="list-style-type: none"> <li>• 13 megapixels [4160 × 3120]</li> <li>• 4 megapixels [2272 × 1704]</li> <li>• 2 megapixels [1600 × 1200]</li> </ul>
ISO sensitivity (Standard output sensitivity)	ISO 125–1600
<b>Exposure</b>	
Metering mode	Matrix, center-weighted (digital zoom less than 2×), spot (digital zoom 2× or more)
Exposure control	Programmed auto exposure and exposure compensation (–2.0 – +2.0 EV in steps of 1 EV)
<b>Shutter</b>	
Speed	<ul style="list-style-type: none"> <li>• <math>\frac{1}{2000}</math>–1 s</li> <li>• 4 s (<b>Choose a style</b> is set to <b>Photograph fireworks</b>)</li> </ul>
<b>Aperture</b>	
Range	Electronically-controlled ND filter (–2 AV) selection 2 steps (f/3.3 and f/6.6 [W])
Self-timer	10 s, smile timer
<b>Flash</b>	
Range (approx.) (ISO sensitivity: Auto)	[W]: 0.3–3.1 m (1–10 ft) [T]: 0.6–1.7 m (2 ft–5 ft 6 in.)
Flash control	TTL auto flash with monitor preflashes
<b>Interface</b>	
USB connector	Micro-USB connector (do not use any USB cable other than the UC-E21), Hi-Speed USB <ul style="list-style-type: none"> <li>• Supports Direct Print (PictBridge)</li> </ul>
HDMI output connector	HDMI micro connector (Type D)

<b>Supported languages</b>	Arabic, Bengali, Bulgarian, Chinese (Simplified and Traditional), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hindi, Hungarian, Indonesian, Italian, Japanese, Korean, Marathi, Norwegian, Persian, Polish, Portuguese (European and Brazilian), Romanian, Russian, Serbian, Spanish, Swedish, Tamil, Telugu, Thai, Turkish, Ukrainian, Vietnamese
<b>Power sources</b>	<ul style="list-style-type: none"> <li>• One Rechargeable Li-ion Battery EN-EL19 (included)</li> <li>• AC Adapter EH-62G (available separately)</li> </ul>
<b>Charging time</b>	Approx. 1 h 40 min (when using Charging AC Adapter EH-71P/EH-73P and when no charge remains)
<b>Battery life<sup>1</sup></b>	
<b>Still images</b>	Approx. 220 shots when using EN-EL19
<b>Movies (actual battery life for recording)<sup>2</sup></b>	Approx. 1 h 25 min when using EN-EL19
<b>Tripod socket</b>	1/4 (ISO 1222)
<b>Dimensions (W × H × D)</b>	Approx. 109.5 × 67.0 × 37.6 mm (4.4 × 2.7 × 1.5 in.) (excluding projections)
<b>Weight</b>	Approx. 180 g (6.3 oz) (including battery and memory card)
<b>Operating environment</b>	
<b>Temperature</b>	–10°C – +40°C (14°F–104°F) (for land use) 0°C–40°C (32°F–104°F) (for underwater use)
<b>Humidity</b>	85% or less (no condensation)
<b>Waterproof</b>	JIS/IEC protection class 8 (IPX8) equivalent (under our testing conditions) Capacity to shoot pictures underwater up to a depth of 10 m (33 ft) and for 60 minutes
<b>Dustproof</b>	JIS/IEC protection class 6 (IP6X) equivalent (under our testing conditions)
<b>Shockproof</b>	Cleared our testing conditions <sup>3</sup> compliant with MIL-STD 810F Method 516.5-Shock

- Unless otherwise stated, all figures assume a fully-charged battery and an ambient temperature of  $23 \pm 3^{\circ}\text{C}$  ( $73.4 \pm 5.4^{\circ}\text{F}$ ) as specified by the Camera and Imaging Products Association (CIPA).
- <sup>1</sup> Battery life may vary depending on conditions of use, such as the interval between shots or the length of time that menus and images are displayed.
  - <sup>2</sup> Individual movie files cannot exceed 4 GB in size or 29 minutes in length. Recording may end before this limit is reached if camera temperature becomes elevated.
  - <sup>3</sup> Dropped from a height of 1.5 m (5 ft) onto a surface of 5 cm (2 in.) thick plywood (changes in appearance, such as paint peeling off and deformation of the drop shock portion and waterproof performance are not subject to the test).  
These tests do not guarantee that the camera will be free from damage or trouble under all conditions.

## Rechargeable Li-ion Battery EN-EL19

Type	Rechargeable lithium-ion battery
Rated capacity	DC 3.7 V, 700 mAh
Operating temperature	0°C–40°C (32°F–104°F)
Dimensions (W × H × D)	Approx. 31.5 × 39.5 × 6 mm (1.3 × 1.6 × 0.3 in.)
Weight	Approx. 14.5 g (0.5 oz)

## Charging AC Adapter EH-71P

Rated input	AC 100–240 V, 50/60 Hz, MAX 0.2 A
Rated output	DC 5.0 V, 1.0 A
Operating temperature	0°C–40°C (32°F–104°F)
Dimensions (W × H × D)	Approx. 55 × 22 × 54 mm (2.2 × 0.9 × 2.2 in.) (excluding plug adapter) For Argentina: Approx. 55 × 63 × 59 mm (2.2 × 2.5 × 2.4 in.) For Brazil: Approx. 55 × 67 × 59 mm For Korea: Approx. 55 × 67 × 59 mm For India: Approx. 55 × 63.5 × 59 mm
Weight	Approx. 48 g (1.7 oz) (excluding plug adapter) For Argentina: Approx. 73 g (2.6 oz) For Brazil: Approx. 70 g For Korea: Approx. 70 g For India: Approx. 73 g

## Charging AC Adapter EH-73P

Rated input	AC 100–240 V, 50/60 Hz, MAX 0.14 A
Rated output	DC 5.0 V, 1.0 A
Operating temperature	0°C–40°C (32°F–104°F)
Dimensions (W × H × D)	Approx. 55 × 22 × 54 mm (2.2 × 0.9 × 2.2 in.) (excluding plug adapter)
	For Argentina: Approx. 55 × 63 × 59 mm (2.2 × 2.5 × 2.4 in.)
	For Brazil: Approx. 55 × 67 × 59 mm
	For Korea: Approx. 55 × 67 × 59 mm
	For India: Approx. 55 × 63.5 × 59 mm
Weight	Approx. 51 g (1.8 oz) (excluding plug adapter)
	For Argentina: Approx. 76 g (2.7 oz)
	For Brazil: Approx. 73 g
	For Korea: Approx. 73 g
For India: Approx. 76 g	

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## Approved Memory Cards

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

- Memory cards with an SD Speed Class rating of 6 or faster are recommended for recording movies. When using a memory card with a lower Speed Class rating, movie recording may stop unexpectedly.

	SD memory card	SDHC memory card	SDXC memory card
SanDisk	–	4 GB, 8 GB, 16 GB, 32 GB	64 GB, 128 GB
TOSHIBA	–	4 GB, 8 GB, 16 GB, 32 GB	64 GB
Panasonic	2 GB	4 GB, 8 GB, 16 GB, 32 GB	64 GB
Lexar	–	8 GB, 16 GB, 32 GB	64 GB, 128 GB

- Contact the manufacturer for details on the above cards. We cannot guarantee camera performance when using memory cards made by other manufacturers.
- If you use a card reader, make sure that it is compatible with your memory card.

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