

Canon

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Canon

ELPH SPORT

IXUS X-1



E Instructions

G Bedienungsanleitung

S Instrucciones

F Mode d'emploi

I Istruzioni

P Instruções

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Handling Precautions

1. This camera is waterproof to a depth of 5 m/16 ft. underwater, as long as the bottom cover is fully closed. If used underwater, at the beach, or exposed to salt spray, sand, or dust, it can be cleaned by holding the body under gentle running clean tap water. Dry the camera with a clean dry cloth. Never expose the camera to water when the bottom cover is not fully closed and latched.
2. Store the camera in a cool, dry, dust-free place. Be sure to keep the camera out of direct sunlight, and away from "hot spots" such as the trunk or rear window shelf of a car. Avoid places where mothballs are used, and use a desiccant in excessive humidity.
3. Do not attempt to disassemble the camera yourself, since there is high-voltage circuitry inside.
4. The battery may explode or cause burns if disassembled, recharged, shorted, exposed to high temperatures, or disposed of in a fire.
5. Use a blower brush to remove dust and sand from the lens and inside the camera. Do not apply any fluids other than water to the lens or body. Take the camera to an authorized Canon service facility for a more thorough cleaning if necessary.
6. Film passing through X-ray examinations at an airport may be exposed and ruined even when loaded in the camera. Request a different method of inspection to avoid damage.
7. Color reproduction may be adversely affected if the film is left in the camera for a long time. Always develop exposed film promptly. Do not pack film in checked baggage on airlines, unless it has been both exposed and processed.
8. On the bottom cover, in addition to a standard tripod socket, is a small Inspection Screw. Never turn this screw, as it will cause leakage. There is no problem securing the accessories to the camera with the tripod socket (see pages 12~13).

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Canon cannot accept liability for damage to the camera from water leaks caused by lack of care during use. Please take good care of your camera.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Do not make any changes or modifications to the equipment unless otherwise specified in the instructions. If such changes or modifications should be made, you could be required to stop operation of the equipment.

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

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus", ICES-003 of the Industry Canada.

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques", NMB-003 édictée par l'Industrie Canada.



The **CE** Mark is a Directive conformity mark of the European Community (EC)

For German-speaking users

This product is intended for use in residential, commercial and light industry environment.

Thank you for purchasing this Canon product.
Before taking pictures, please read these instructions carefully for a thorough understanding of how the camera operates.

Table of Contents

These instructions are divided into five sections: Introduction, Basic Operations, Advanced Operations, Underwater Operations and Additional Information. When first using the camera, be sure to read the instructions from the Introduction.

Convention

The following convention is used in these instructions:



Warnings you should observe when using the camera.



Additional information on using the camera.

(→ ■) is shorthand for "See page ■".

1 Introduction

Handling Precautions	2
Table of Contents	3
▲ Keeping Your Camera Waterproof	4
Advanced Photo System Quick Reference	5
Quick Reference	6
Nomenclature	7
Attaching and Using the Strap and the Case	8
Holding the Camera	9

2 Basic Operations

① Opening and Closing the Bottom Cover	10
② Loading the Battery	11
③ Loading the Film Cartridge	12
About the Film Cartridges	13
Checking the Photography Data	14
④ Turning the Power On	15
⑤ Checking the Battery Power	16

⑥ Choosing the Print Type	23
⑦ Shooting in AUTO Mode	24
⑧ Focusing Range	25
Green/Orange Indicators	26
Taking Pictures through a Window	26
⑨ Removing the Film Cartridge	27
Film Cartridge Processing	28
Handling Film Cartridges After Exposure	28

3 Advanced Operations

☉ AUTO Auto Flash with Red-eye Reduction	29
Red-eye Reduction Function	30
⚡ Flash ON Mode	31
☉ Flash OFF Mode	32
☒ Slow-synchro Mode	33
Using Focus Lock	34
☉ Using the Self-timer	35
DATE Imprinting the Date and Time	36
Selecting the Date Format	37
Setting the Date and Time	38
☒ Imprinting Titles	40
Selecting the Title Language	40
Selecting the Title	41

4 Underwater Operations

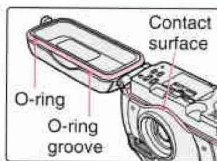
Underwater Photography	42
☒ Underwater Macro Photography	43
Tips for Taking Better Pictures Underwater	44
Checking and Cleaning the Bottom Cover	45
O-Ring	46
After You Use the Camera	48

5 Additional Information

Troubleshooting	50
Questions and Answers	51
Specifications	52

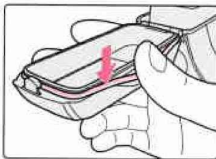
You can use this camera to take pictures underwater at depths of up to 5 m (16.4 ft.).

After you use your camera underwater or in wet conditions, always check the bottom cover O-ring and its contact surface. A single grain of sand or strand of hair can compromise the waterproofing and cause irreparable damage to the camera.



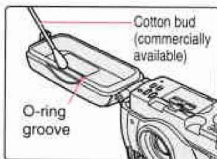
1 Check the O-ring.

- Carefully check that the O-ring, O-ring groove and contact surface are free from cracks, warping and soiling.
- If there is any soiling on the O-ring or contact surface, clean the area thoroughly.



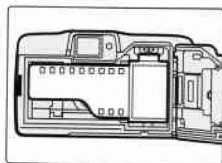
2 Clean the O-ring.

- Push gently on the O-ring so that it pops out of its groove and then remove it.
- Use a moistened cotton bud to remove any soiling from the O-ring groove and contact surface.
- Wash the O-ring with clean water, wipe off any moisture and fit the O-ring into its groove.
- Check that the O-ring is securely inserted into the groove.

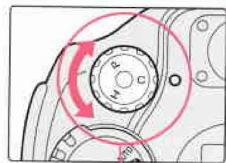
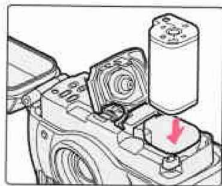


- Do not pull or stretch the O-ring excessively.
- The O-ring is specially treated. Ensure that it does not come into contact with grease or oil.
- Do not use a sharp or pointed instrument to remove the O-ring as this could damage it and cause leakage.
- Take particular care to ensure that the O-ring is not excessively twisted as this will cause leakage.
- If the O-ring is cut, damaged or distorted, take your camera to an authorized Canon service facility for a replacement O-ring (price available on application). The O-ring should also be replaced two years after the date the camera was purchased, regardless of whether the O-ring is damaged. If the camera is frequently used underwater or in sandy or dusty locations, the O-ring should be replaced yearly.





Previous film



Print type selector dial



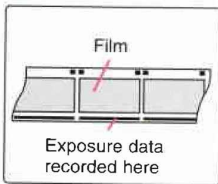
C print



H print

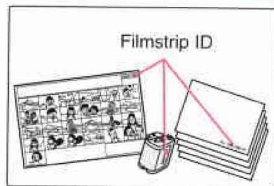


P print



Data recorded on film (example)

- Date and title
- Print type
- Film orientation
- Flash ON/OFF
- Subject brightness
- Etc.



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1 Simple film cartridge loading. (→ 20)

- Unlike previous 135 (35mm) film, there is no need to open the back cover and pull the film leader across.

2 A choice of print types (→ 23)

⇒ You can choose from three print types.

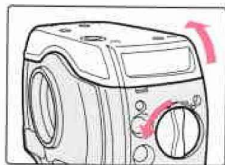
- C print: Classic print
- H print: Wide-angle print
- P print: Panorama print

3 A variety of data (IX information) is recorded magnetically on the film surface.

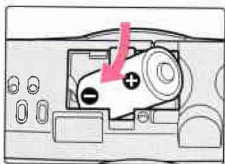
- All the information described at left can be recorded on the film.
- The exposure information is used in the printing process to produce better quality prints.

4 Exposed film cartridges can be processed for printing at Advanced Photo System certified shops. (→ 28)

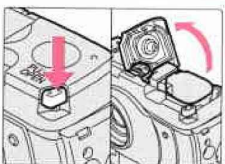
- ⇒ After developing, the shop will return your pictures, along with an index print, and the film cartridge with the film inside.
- When ordering reprints from a certified shop, just match the ID on the back of the print or on the index print sheet with the ID on the film cartridge, and specify which prints you want.



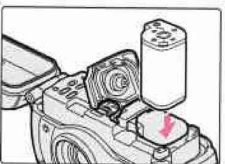
- 1** Open the bottom cover. (→ 18)
- Turn the knob to open the cover.



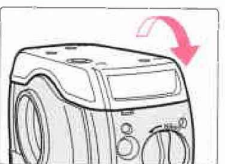
- 2** Load the battery. (→ 19)



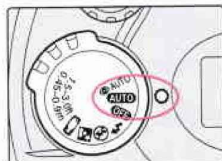
- 3** Open the film cartridge compartment cover. (→ 2)
- Press the button to open the cover.
 - Check that film cartridge visual exposure indicator shows (unexposed). (→ 21)



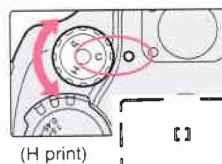
- 4** Load the film and close the film cartridge compartment cover. (→ 20)



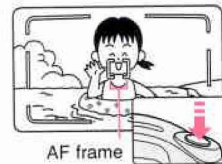
- 5** Close the bottom cover. (→ 18)
- Press the cover closed until it clicks.



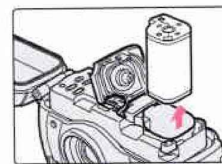
- 6** Set the mode dial to **AUTO**. (→ 22)



- 7** Choose the print type. (→ 23)
- ➔ The viewfinder field changes.

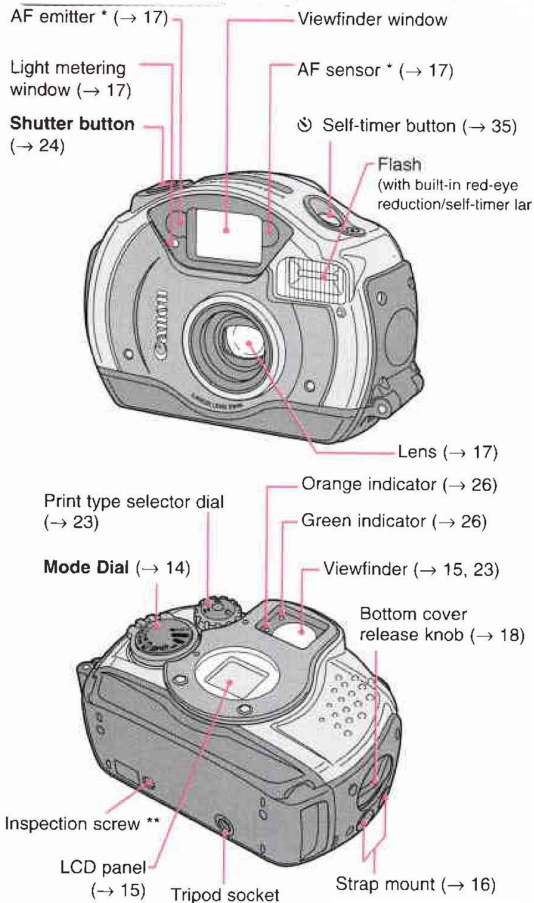


- 8** Position the AF frame over the subject and take the picture. (→ 24)
- ➔ The flash fires automatically in low-light conditions.



- 9** When you have finished shooting and the film has rewound fully, remove the film cartridge. (→ 27)
- Check that the frame counter on the LCD panel shows "0" and that the icon is blinking. Then open the film cartridge compartment cover.
 - Remove the film cartridge and close the film cartridge compartment cover.

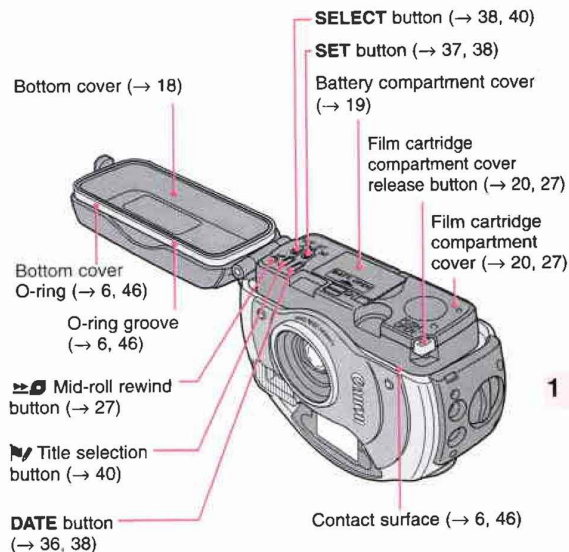
Nomenclature



For further details, refer to the page indicated.

E

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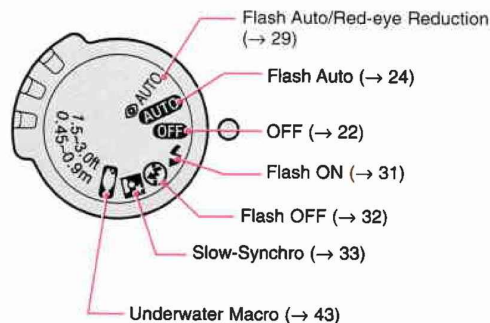


1

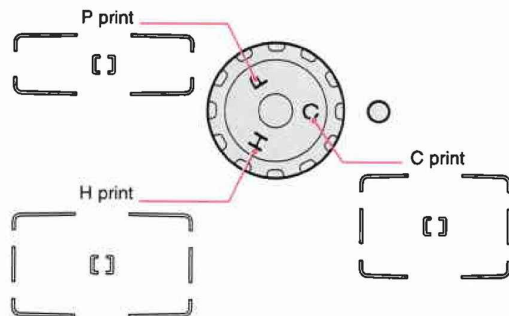
* AF is an abbreviation for Auto Focus.

** ⚠ Do not turn as this will cause leakage.

Mode Dial

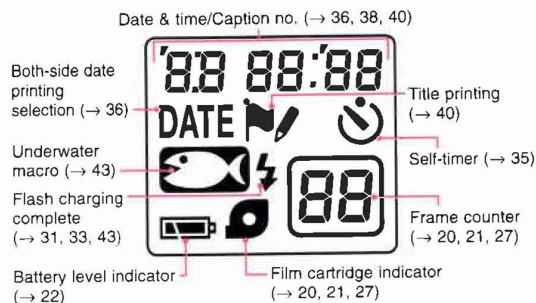


Print Type Selector Dial (→ 23)



LCD Panel

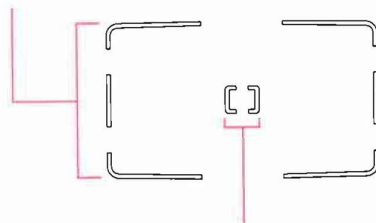
(normally displays only the required information)



Viewfinder Frames

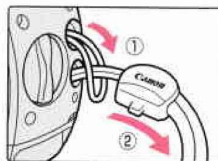
Picture Frame

Compose your picture within this frame (H print). (→ 23)



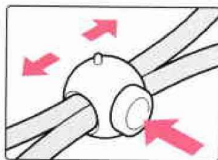
AF Frame

Position this frame over the subject. (→ 24, 34)



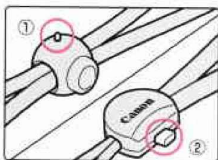
Attaching the strap.

- To ensure that you do not drop your camera, attach the strap provided.
- Thread the strap through the strap mount as shown in steps ① and ②.



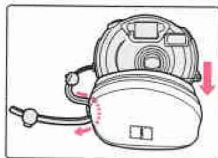
Adjusting the position of the fastener.

- Hold the button in and adjust the position of the fastener so that the strap is a comfortable length.



Using the fastener projections.

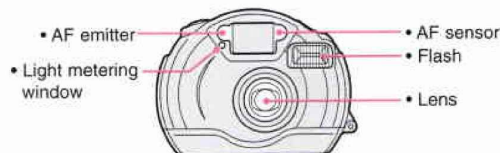
- ① Use the button-push projection to push the **SELECT** button (→ 38, 40), the **SET** button (→ 37, 38) and the **⏏** button (→ 27).
- ② Use the bottom cover release projection when the bottom cover is difficult to open. (→ 18)



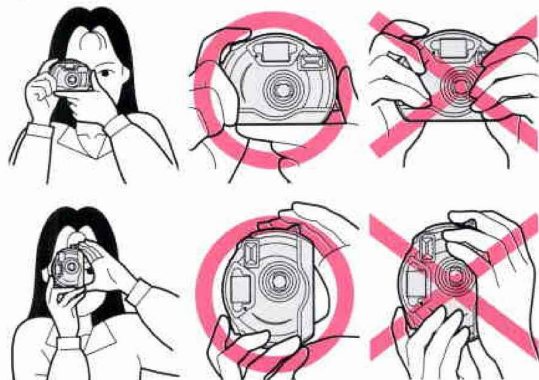
Using the case.

- Undo the fastener and put the camera into the case as shown.

To avoid obscuring the image with your fingers and to ensure a clear sharp picture, take care to keep your hands, hair and the camera strap away from the areas marked • below.



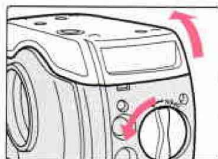
Hold the camera as shown below when taking pictures.



Dust or soiling on the AF emitter/sensor or lens causes focusing difficulties. Wipe soiled areas clean before taking pictures.

1 Opening and Closing the Bottom Cover

Open the bottom cover of the camera in a place free of sand and water to load and remove the film cartridge, replace the battery and use the buttons inside the bottom cover.



1 Open the bottom cover.

- Carefully check that there is no sand or water on the camera before opening the bottom cover. (→ 48, 49)
- Turn the knob to open the bottom cover.

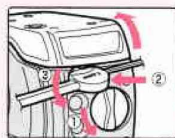


2 Close the bottom cover.

- Carefully check that the O-ring, O-ring groove and contact surface are free from cracks, warping and soiling. (→ 46)
- Press the cover closed until it clicks.
- Check that the knob is rotated to the locked position ①.



- Do not open the bottom cover underwater as water will get into the camera and cause irreparable damage.
- When you take the camera from a warm room out into cold air, the bottom cover may become difficult to open due to the difference in air pressure between the camera interior and the outside air. If this occurs, open the bottom cover as described below. Use the bottom cover release projection on the strap fastener. (→ 16)



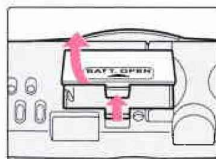
- ① Turn the knob and leave it turned.
- ② Insert the projection into the slot.
- ③ Slowly rotate the fastener.

2 Loading the Battery

Applicable Battery: One CR2 lithium battery

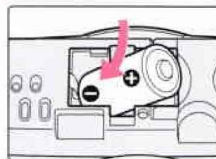
- Open the bottom cover to load the battery.

E




1 Remove the battery cover.

- Push the catch and remove the cover.



2 Load a new battery.

- Ensure that the + and - terminals are positioned correctly.
- The  icon appears on the LCD panel.



3 Reattach the battery cover.

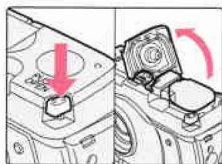
- ➔ The date/time display on the LCD panel shows "-- --" blinking. Set the date and time. (→ 38)

2



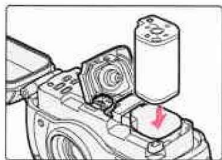
3 Loading the Film Cartridge

- Open the bottom cover to load the film cartridge. (→ 18)



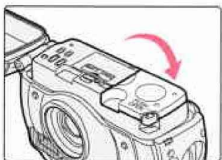
1 Open the film cartridge compartment cover.

- Press the button to open the film cartridge compartment cover.




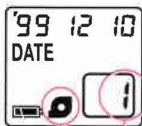
2 Load the film cartridge.

- Check that film cartridge visual exposure indicator shows ○ (unexposed). (→ 21)
- Load the cartridge with the visual exposure indicator facing out.



3 Close the cartridge compartment cover.

- Press the cartridge compartment cover closed until it clicks into place.
- ➔ The  icon appears on the LCD panel and the film is automatically wound on.



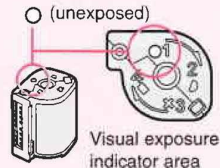
Film cartridge indicator
Frame counter

4 "1" appears on the frame counter.

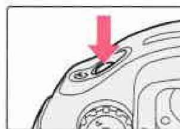
- If "1" is not shown, try again, checking that the film cartridge is loaded correctly.
- Close the bottom cover.


About the Film Cartridges

- Use IX240 cartridge film.
- You cannot use conventional 135 (35mm) film in this camera.
- Use film cartridges whose visual exposure indicator is ○ (unexposed).



Checking the Photography Data






- With the mode dial set to **OFF**, press the  button.
- ➔ The information shown below appears on the LCD panel.

Film sensitivity (ISO speed)











Film type

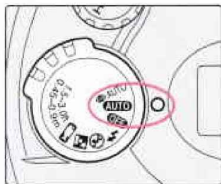
-  : Color negative film
-  : Color reversal film
-  : Black and white film
- : Other film

Maximum number of available shots.



- Film cartridges with the  (partial) indicator cannot be used in this camera. If a cartridge with the  (partial) indicator is loaded, it will be set to  (exposed) and you will not be able to take any more pictures with that cartridge.
- If  (partial),  (exposed) or  (processed) film cartridges are loaded, the "0" on the frame counter and the  indicator will blink. Reload with a  (unexposed) film cartridge.


4 Turning the Power On






Set the mode dial to **AUTO.**

- To turn the power off, set the mode dial to **OFF**.

5 Checking the Battery Power

Check that the battery icon  appears on the LCD panel when you switch the camera on.

-  (on) The battery is fully charged.
-  (on) Prepare a new battery.
-  (blinking) Install the new battery. (→ 19)

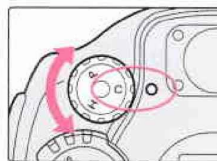
A new battery generally has sufficient capacity for 18 25-shot film cartridges (based on Canon's Standard Test Method with the flash used for 50% of the shots). At low temperatures (−10°C/14°F), the battery capacity is approximately one third of normal capacity.



- Use one CR2 lithium battery.
- Always check the battery capacity before using the camera.
- If you are traveling or intend to take many pictures, take a supply of spare batteries. The batteries may be difficult to obtain at your destination.
- If you take a number of consecutive shots using the flash, the battery power may drop off temporarily and prevent the LCD panel from displaying data correctly. If this occurs, switch the camera off and wait a few minutes before switching it on again.

6 Choosing the Print Type

This camera allows you to choose whichever print type (C, H or P) best suits your subject.

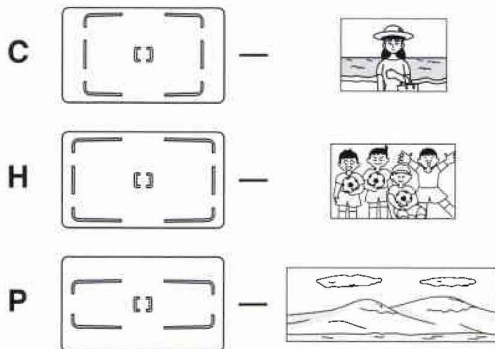


Rotate the dial.

- ➔ The viewfinder screen changes as shown below when you select a print type.
- You can select a different print type for each shot.
- Check that the viewfinder shows the correct frame for the selected print type.

Viewfinder

Printed photo



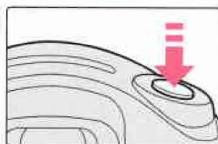
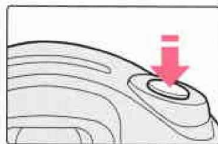
For P prints, because of the large variation between the area visible in the viewfinder and the area actually photographed, shots should be taken from distances of at least 2 m (6.6 ft.) or greater.

7 Shooting in **AUTO** Mode


The shutter button has a two-step action. The first step sets the focus and exposure, while the second step releases the shutter. In low-light conditions, the flash fires automatically.



AF frame



1 Set the focus.

- Position the AF frame over your subject and press the shutter button down halfway.
- The green indicator lights when the camera has focused on the subject.
- The  icon appears on the LCD panel when the flash fires automatically.
- Keep the shutter button pressed down halfway.

2 Compose the shot and take the picture.

- Press the shutter button down fully.
- Press the button down slowly and gently.
- The picture is taken.

Flash Range

(shooting on land using negative color film)

Film Speed	Effective Range
ISO 100	0.6 to 2.3 m (2 to 7.5 ft.)
ISO 200	0.6 to 3.2 m (2 to 10.5 ft.)
ISO 400	0.6 to 4.2 m (2 to 13.8 ft.)

- See p.44 for the flash range for underwater photography.

8 Focusing Range

The focusing range of the camera varies depending on the mode used and whether the shot is taken on land or underwater.

Shooting On Land



0.6 m (2 ft.) to infinity

- The flash always fires for focusing distances of 0.6 to 1 m (2 to 3.3 ft.).

1 m (3.3 ft.) to infinity

Fixed at 1.5 m (4.9 ft.)

- This setting should be avoided at distances of more or less than 1.5 m (4.9 ft.) as blurring will occur.

Shooting Underwater



0.9 to 3 m (3 to 9.8 ft.)

0.45 to 0.9 m (1.5 to 3 ft.)

- The flash always fires.

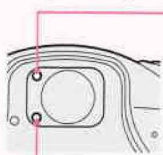


When the flash fires, the shot cannot be taken until flash charging is completed (up to 3 seconds). Press the shutter button halfway and then wait until the orange indicator lights before taking the photograph.



Green/Orange Indicators

When you press the shutter button down halfway, the indicators light or blink to show whether the camera is ready to shoot.



Green indicator

Lit: Camera ready to shoot (subject in focus).

Blinking

(4 times/sec.): Proximity warning (on land)

(16 times/sec.): mode

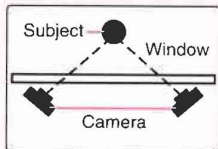
Orange indicator

Lit: Flash fully charged.

Blinking: Camera shake warning (with the flash switched off)



- When the green indicator blinks (4 times/sec.), move away from the subject until the indicator stops blinking and then press the shutter button again.
- The green indicator may light even at distances of less than 30 cm (1 ft.). Take care not to get too close to the subject.
- When the orange indicator blinks (camera shake warning), use a tripod or other means to hold the camera steady.
- In underwater photography and mode, there is no proximity warning. Always shoot within the specified range.
- **Taking Pictures through a Window**



When you are taking pictures through a window, hold the camera as close to the glass as possible (20 cm (0.7 ft.) or less) and shoot at an angle to the glass.

If you are too far from the window, the camera may focus on the surface of the glass rather than on the subject.

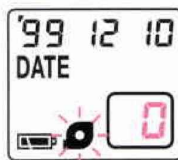
9 Removing the Film Cartridge

The film rewinds automatically when the end of the roll is reached.

The frame counter counts down as the film rewinds.

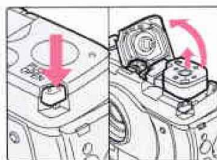
When the film is fully rewound, the frame counter shows "0" and the icon blinks.

- Open the bottom cover to remove the film cartridge. (→ 18)



1 Check that the icon is blinking.

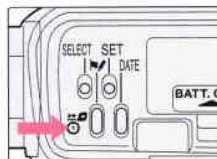
- If the icon is not blinking, press the button. (→ 13, 16)



2 Open the film cartridge compartment cover.

- Press the button to open the cover and remove the film cartridge.
- ➔ The icon on the LCD panel goes off.
- ➔ The visual exposure indicator on the film cartridge has changed to (exposed).

To remove the film cartridge in mid-roll



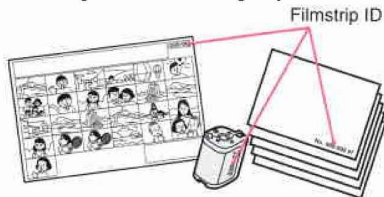
- Press the button. (→ 16)
- When you remove the film cartridge, the visual exposure indicator on the cartridge changes to (exposed).



Film Cartridge Processing

- Exposed film cartridges can be processed for printing at Advanced Photo System certified shops.
- All certified shops do the following:
 - ① Return your cartridge with the film inside.
 - ② Process all three types of prints.
 - ③ Make an index print sheet.
 - ④ Use the print quality data for better quality prints.
 - ⑤ Imprint the date and title on the back of the print.

Handling Film Cartridges After Exposure

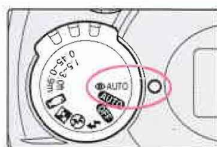
- When ordering reprints at a certified shop, be sure to match the ID number from the back of the print you want or from the index print with the ID on the film cartridge before handing in your film cartridge.



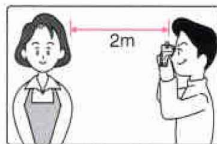
- Handle and store index prints and returned film cartridges carefully.
- The visual exposure indicator is set to  (exposed) for film cartridges that have been fully exposed, and to  (processed) for film cartridges that have been developed.
- Do not place cameras or film cartridges near televisions, speakers, or other sources of strong magnetic fields.

👁️ AUTO Auto Flash with Red-eye Reduction

Use this mode to reduce the red-eye effect when you are taking pictures of people in low-light conditions. When you press the shutter button, the red-eye reduction lamp lights and then the flash fires.

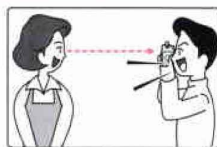


1 Set the dial to  AUTO.



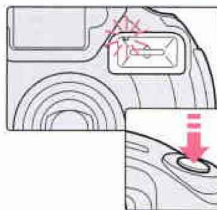
2 Move to within 2 m (6.6 ft.) of your subject.

- The effective range of the red-eye reduction lamp is 2 m.



3 Get your subject to look at the camera.

- The red-eye reduction function is only effective if the subject is looking directly at the camera.





4 Take the picture.

- Slowly press the shutter button down fully.
 - ➔ Shutter release is delayed for about a second while the red-eye reduction lamp lights.
- Keep the shutter button pressed down until you hear the frame advance to the next frame.

Red-eye Reduction Function

When you use the flash to take photos of people in low-light conditions, their eyes sometimes glow red in the photograph. This is referred to as the red-eye effect and is caused by the light of the flash reflecting off the retina of the eye.

In  AUTO and  modes, the red-eye reduction lamp lights for approximately 1 second before the flash fires. This causes the subject's pupils to contract and thereby minimizes the risk of red-eye.



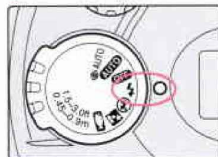
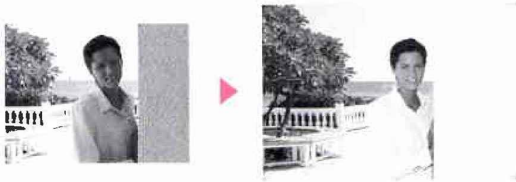
When the red-eye reduction lamp lights, shutter release is delayed for approximately 1 second to heighten the effectiveness of the lamp. To make the shutter operate immediately, set the dial to **AUTO** and then take the picture.




Important guidelines for using the red-eye reduction function

1. Because this function is not effective unless the subject is looking directly at the lamp, attract the subject's attention so that he or she looks at the camera.
2. Take the picture from within 2 m (6.6 ft.) of your subject.
3. The effectiveness of the red-eye reduction function varies from person to person.
4. Raise the ambient light level as much as possible.
5. Red-eye reduction cannot completely eliminate red-eye in all instances.

The flash fires regardless of the light conditions. Set this mode for fill-in flash during the day, or to illuminate a strongly shadowed or back-lit subject.



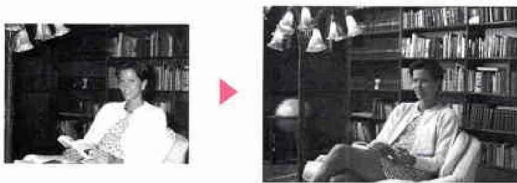
Set the dial to .

➔ When  appears on the LCD panel, take the picture.



Flash OFF Mode

The flash will not fire even in low-light conditions. Use this mode where flash photography is prohibited, for night views, or for available-light photography.



Set the dial to .

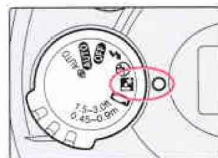
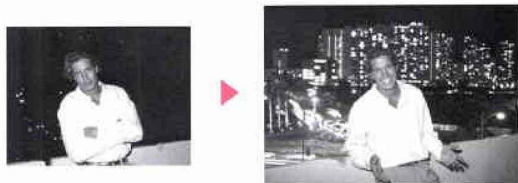
- Take the picture.




- Because a slow shutter speed is used (up to 1/2 seconds) when the flash is set to Flash OFF mode in low-light conditions, take care to avoid camera shake.
- When the orange indicator blinks (camera shake warning), use a tripod or other means to hold the camera steady.

Slow-synchro Mode

This mode is effective when taking pictures of people with an evening or nocturnal background. Flash and slow shutter speed are effectively combined, so that the flash illuminates the subject, and the slow shutter speed captures the distant background.







Set the dial to .

- ➔ When  appears on the LCD panel, take the picture.



Because a slow shutter speed (up to 1/2 seconds) is used in this mode, always use a tripod to prevent camera shake. Take care also to ensure that the subject does not move in the moment after the flash fires.



- The red-eye reduction function operates when the mode is set to .
- In some conditions,  mode (→ 29) may give better results. For this reason, it is best to take the shot in both  mode and  mode.

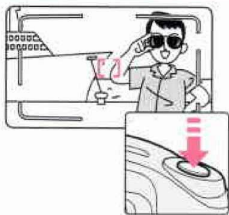
Using Focus Lock

Lock the focus when you want the subject of your shot to be off to one side of the frame.



1 Set the focus.

- Position the AF frame over the subject and press the shutter button down halfway.
- ➔ The green indicator lights when the subject is in focus.
- Keep the shutter button pressed down halfway.

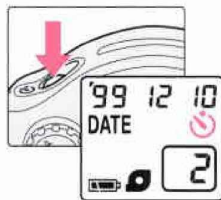


2 Compose the shot and take the picture.





- Compose your shot.
- Press the shutter button slowly and gently all the way down.
- ➔ The picture is taken.

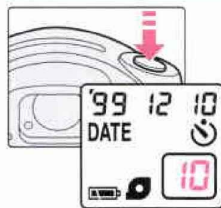
Using the Self-timer

The self-timer function allows you to take a picture when you are some distance from the camera.




1 Set the mode to Self-timer.

- ➔ Press the  button.
- ➔ The  icon appears on the LCD panel.
- If you press the  button again, the  disappears and self-timer mode is cancelled.



2 Compose the picture and press the shutter button.

- ➔ The red-eye reduction lamp flashes (once a second) and a 10-second countdown is displayed on the LCD panel.
- ➔ The picture is taken after approximately 10 seconds.
- To cancel the self-timer, press the  button.



Do not stand directly in front of the camera when you press the shutter button as this will result in the picture being out of focus.



- Approximately 2 seconds before the shutter is released, the lamp begins to flash more rapidly. If the flash is used in a red-eye reduction mode, the lamp stays lit for the last 2 seconds.
- Set the camera on a stable surface or use a tripod to hold the camera steady.
- The Focus Lock function can be used in the same way as in normal photography.

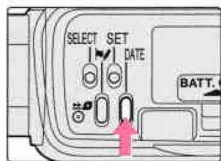


Take care that the distance from the camera to the subject does not change. If the distance does change, lock the focus again.

DATE Imprinting the Date and Time

The date and time can be imprinted on the back or on both sides of your photograph.

- Open the bottom cover to select this setting. (→ 18)



Select the date/time combination.

- The date/time combination changes each time you press the **DATE** button.
- Shoot the picture with the desired date/time combination selected.

'99 12 15
DATE

Date only
(imprinted on both sides)

15 14:25
DATE

Date + time ★
(imprinted on both sides)

15 14:25

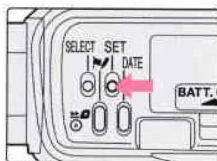
Date + time ★
(imprinted on back)

★: Only the day, hour and minute (15 14:25) are displayed on the LCD panel, but the imprinted data will show a combination of hours, minutes, and the date in the selected date format (Year-Month-Day, Month-Day-Year, or Day-Month-Year). (Ex. " '99 12 15 14:25")



- **Note that the imprinting position, character size, font and color, and the availability of both-side imprinting vary depending on the store selected for processing and printing.**
- The date, time and title do not appear on the film negative but are imprinted when the prints are made, using the data magnetically recorded on the film by the camera (IX data).
- In addition to the date and time, the data imprinted on the back of each photo includes the film cartridge ID number and the frame number

Selecting the Date Format



Select the date format.

- Press the **DATE** button so that only the date is displayed.
- The date format changes each time you press the **SET** button.
- Always use the push-button projection on the strap buckle to push the **SET** button. (→ 16)

'99 12 15
DATE

Year/month/day

12 15 '99
DATE

Month/day/year

15 12 '99
DATE

Day/month/year

thecanancollector.com

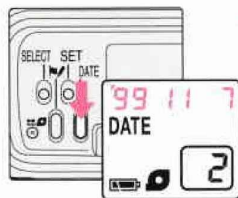


Setting the Date and Time

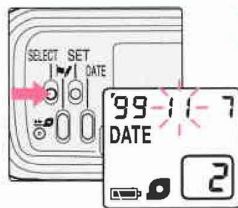
When you replace the battery or travel abroad, use the procedure below to set or adjust the date and time settings.

- Always use the push-button projection on the strap buckle to push the **SELECT** and **SET** buttons. (→ 16)
- Open the bottom cover to set the date and time. (→ 18)

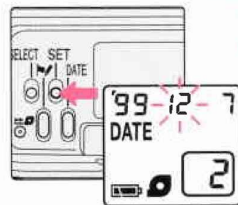
Setting the Date



- 1 Display the date only.**
- Press the **DATE** button to display the date only.
 - Refer to the next page to set the time.

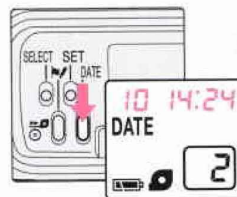


- 2 Select the date setting.**
- Press the **SELECT** button to select the setting.
 - The selected setting (blinking numbers) changes sequentially from year to month to day.

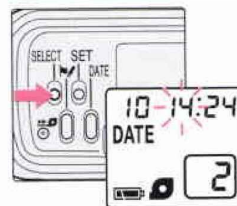


- 3 Set the date.**
- Press the **SET** button to set the date.
 - Repeat steps 2 and 3 to set all the date settings.
 - If you press the **SELECT** button and none of the date settings blink, date setting is complete.

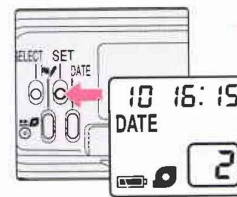
Setting the Time



- 4 Display the date and time.**
- Press the **DATE** button to display the date and time.
 - You cannot set the date when the date and time are both displayed.



- 5 Select the time setting.**
- Press the **SELECT** button to select the setting.
 - The selected setting (blinking colon ":") changes sequentially from hour to minute to second.



- 6 Set the time.**
- Press the **SET** button to set the time.
 - If you press the **SELECT** button and the colon ":" does not blink, time setting is complete.

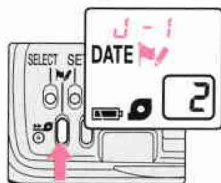




- If you replace the battery, the date and time display on the LCD panel reverts to three blinking dashes ("-- -- --") (no date or time imprinting). When this occurs, perform steps 2, 3, 5 and 6 to set the date and time.
- Holding the button down for 2 seconds or more causes the setting to change continuously.
- If you press the **SET** button when the colon ":" is blinking, the seconds display is set to zero.

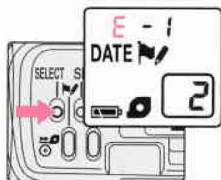
Imprinting Titles

You can imprint titles on the back of the print.
• Open the bottom cover to select this setting. (→ 18)

Selecting the Title Language




- 1 Press the  button.**
→ The symbol  is displayed on the LCD panel.





- 2 Press the SELECT button to select the language.**
• The language changes every time you press in this order:
J Japanese, E English, F French, d German, ES Spanish, I Italian.

Canceling Title Imprinting

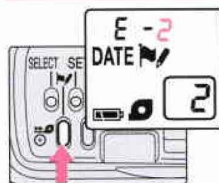
- Press the **DATE** button until the symbol  disappears from the LCD panel.




- The title imprinting function automatically returns to a date/time setting after one frame is exposed. To continuously imprint the same title on more than one picture, hold down the  button for two seconds or longer (until the  blinks on the LCD panel).
- **Character size, shape, color, and position may vary according to the individual photo shop.**
- The date and time as set by the Date function are also printed with the title.
- If you want information imprinted on the front of your prints, be sure to check with the photo shop, that they provide this service, before the film is processed.

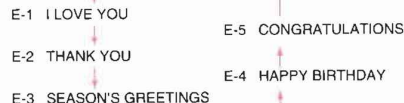
Selecting the Title

Once you have selected the language for your title, you can select the title.



- Press the  button.**
→ The title number changes every time you press.
• Select the title you want to use, then take the picture.

Button Sequence



Japanese Titles

- J-1 オメデトウ
- J-2 カンゲキ!
- J-3 カワイイデショ!
- J-4 ヨロシク!
- J-5 ウレシイナ

French Titles

- F-1 JE T'AIME
- F-2 MERCI
- F-3 MEILLEURS VOEUX
- F-4 JOYEUX ANNIVERSAIRE
- F-5 FÉLICITATIONS

Italian Titles

- I-1 TI AMO
- I-2 GRAZIE
- I-3 BUONE FESTE
- I-4 BUON COMPLEANNO
- I-5 CONGRATULAZIONI

German Titles

- D-1 ICH LIEBE DICH
- D-2 DANKE SCHÖN
- D-3 HERZLICHE GLÜCKWÜNSCHE
- D-4 FRÖHLICHE WEIHNACHTEN
- D-5 FROHES NEUES JAHR

Spanish Titles

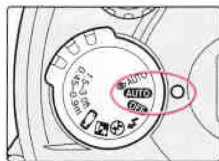
- ES-1 TE QUIERO
- ES-2 GRACIAS
- ES-3 FELICES PASCUALS
- ES-4 FELIZ CUMPLEAÑOS
- ES-5 FELICIDADES



⚡ / AUTO Underwater Photography

You can use this camera to take pictures underwater at depths of up to 5 m (16.4 ft.).

The effective focusing range underwater is 0.9 to 3 m (3 to 9.8 ft.). Always shoot within this range.



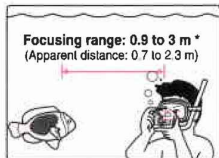
1 Set the dial to ⚡ or AUTO.



2 Compose the shot and take the picture.

- Compose the shot.
- Slowly and gently press the shutter button.

➡ The picture is taken.



*Focusing range: 3 to 9.8 ft.
(Apparent distance: 2.3 to 7.5 ft.)



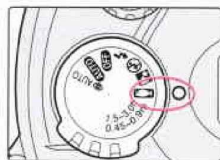
- ⚡ AUTO and [Red Eye] modes should be avoided since the Red-eye Reduction function operates in these modes and prevents the shutter from releasing immediately.
- [Red Eye] mode should also be avoided since the low shutter speed can result in blurred images due to camera shake.
- There is no proximity warning (green indicator blinking 4 times/sec.) in underwater photography and [Red Eye] mode. Always take pictures within the specified range.
- When the camera is taken quickly from warm conditions into cold water, the lens may cloud over. Allow the camera to adjust to the water temperature beforehand.



Underwater Macro Photography

Use Underwater Macro mode when you want to take close-up pictures of subjects such as small fish.

The effective focusing range is 0.45 to 0.9 m (1.5 to 3 ft.). The flash always fires in this mode. Always shoot within the focusing range.

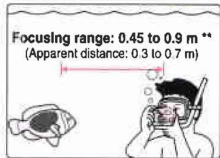


1 Set the dial to [Fish icon].
➡ [Fish icon] blinks on the LCD panel.
• Check that ⚡ is displayed.



2 Compose the shot and take the picture.

- Compose the shot.
- ➡ The green indicator blinks (16 times/sec) when you press the shutter button halfway.
- Slowly and gently press the shutter button.
- ➡ The flash fires and the picture is taken.

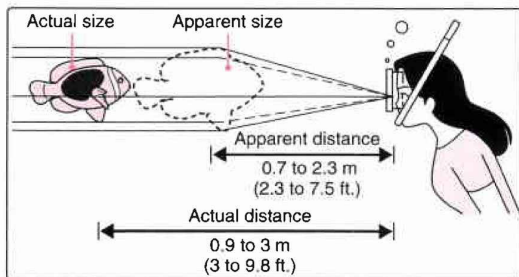


**Focusing range: 1.5 to 3 ft.
(Apparent distance: 1 to 2.3 ft.)

- Never open the bottom cover underwater.
- Do not throw the camera into the water or allow it to slap against the surface.
- Take particular care not to take the camera to depths greater than 5 m (16.4 ft.) as this could damage the camera.
- Reversal film for color slides cannot be used in [Macro] mode.
- Do not use [Macro] mode on land. (→ 25)
- Take particular care with the camera in fresh water as it may sink when loaded with a battery and film cartridge.

Tips for Taking Better Pictures Underwater

You will be able to take better shots underwater if you remember the tips given below.



- Because the refractive index of water is 1.33 times that of air, objects underwater appear 25% closer and larger than they actually are.
- The effective range of the flash underwater is as shown in the table below. However, the range decreases when water clarity is poor.

Guide to the Effective Flash Range Underwater (shooting underwater using negative color film)

Film Speed	Photography Mode	
	AUTO AUTO	
ISO 100	0.9 to 1.7 m (3 to 5.6 ft.)	0.45 to 0.9 m (1.5 to 3 ft.)
ISO 200	0.9 to 2.4 m (3 to 7.9 ft.)	
ISO 400	0.9 to 3 m (3 to 9.8 ft.)	

Recommended photography modes with good water clarity.



Shoot in or **AUTO** mode.

Recommended photography modes with poor water clarity.



① Shoot in mode from as close as possible.

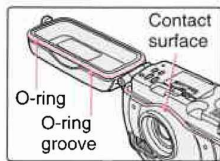


② Shoot in mode when the subject is further away.

- Because water more readily absorbs red light, photos taken using color film tend to have a bluish cast. This problem can be avoided to some extent at short distances by using the flash.
- Film with a speed of ISO 200 or 400 should be used.

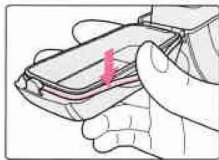
Checking and Cleaning the Bottom Cover O-Ring

After you use your camera underwater or in wet conditions, always check the bottom cover O-ring and its contact surface. A single grain of sand or strand of hair can compromise the waterproofing and cause irreparable damage to the camera.



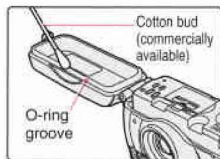
1 Check the O-ring.

- Carefully check that the O-ring, O-ring groove and contact surface are free from cracks, warping and soiling.
- If there is any soiling on the O-ring or contact surface, clean the area thoroughly.



2 Clean the O-ring.

- Push gently on the O-ring so that it pops out of its groove and then remove it.
- Use a moistened cotton bud to remove any soiling from the O-ring groove and contact surface.
- Wash the O-ring with clean water, wipe off any moisture and fit the O-ring into its groove.
- Check that the O-ring is securely inserted into the groove.



- Do not pull or stretch the O-ring excessively.
- The O-ring is specially treated. Ensure that it does not come into contact with grease or oil.
- Do not use a sharp or pointed instrument to remove the O-ring as this could damage it and cause leakage.
- Take particular care to ensure that the O-ring is not excessively twisted as this will cause leakage.
- If the O-ring is cut, damaged or distorted, take your camera to an authorized Canon service facility for a replacement O-ring (price available on application). The O-ring should also be replaced two years after the date the camera was purchased, regardless of whether the O-ring is damaged. If the camera is frequently used underwater or in sandy or dusty locations, the O-ring should be replaced yearly.

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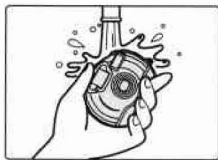


4

After You Use the Camera

If there is sand or mud on the camera or if you have been using the camera underwater, rinse the camera off as described below before you open the bottom cover.

- Use gently running tap water no warmer than 30°C/86°F to rinse the camera.
- The interior of the camera is not waterproof. Always check that the bottom cover is closed before rinsing the camera off. (→ 18)



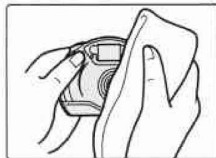
1 Rinse the camera under running water.

- Wash any dirt, mud or sand off the outside of the camera by holding it in a gentle stream of running water (as for handwashing).
- Take care not to scratch the lens, viewfinder, LCD panel or flash window when removing the dirt.



2 Wash the camera in a bucket of water.

- Fill a bucket or other container with clean water and immerse the camera in the water. Rock the camera gently in the water to thoroughly loosen any dirt, mud or sand.
- When the camera has been used in the sea, soak the camera in fresh water for 1-2 hours to remove the salt.



3 Wipe the camera dry.

- Wipe the camera with a clean, soft dry cloth and place it in the shade to dry.





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- Do not wash the camera in detergent, hot water or strongly flowing water as this will cause camera leakage or damage.
- Do not shake the camera to remove water or use a hair drier or similar appliance to forcibly dry the camera.
- Do not wash the camera in a washing machine.
- If the camera is very heavily soiled, consult an authorized Canon service facility.

Troubleshooting

In case of trouble check the table below before taking you camera to be repaired.

Problem	Cause	Remedy	Page
The battery check indicator  blinks.	• The battery is low.	• Replace the battery.	19
The battery check indicator  is not displayed.	• No battery is loaded.	• Load a battery.	19
	• The battery is inserted with the wrong polarities.	• Reinsert the battery correctly.	19
	• The battery is completely dead.	• Replace the battery.	19
The shutter does not release.	• The power is turned off.	• Turn the power on.	22
	• The battery is low.	• Replace the battery.	19
	• A fully exposed film cartridge has been loaded in the camera.	• Remove the film cartridge and load a new one.	20, 27
	• The shutter will be released only after the red-eye reduction lamp is lit for about 1 second.	• Keep pressing the shutter button down until the shutter releases. • Change to AUTO mode.	29, 30 24
The photographs are blurred.	• When the shutter was released, the AF emitter/sensor was blocked.	• Ensure that the AF emitter/sensor is not blocked by hair, fingers, etc.	17
	• In self-timer shooting, you stood immediately in front of the camera when pressing the shutter button.	• Make sure you do not stand immediately in front of the camera when pressing the shutter button.	35
	• The camera moved when the shutter button was pressed (camera shake).	• Press the shutter button slowly and gently.	24
	• The AF emitter/sensor or lens is soiled.	• Wipe them clean.	17
	• There are drops of water or soiling on the lens.	• Wipe the lens with a soft dry cloth.	48
	•  mode was used on land.	• Use a photography mode other than  .	25

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Problem	Cause	Remedy	Page
The bottom cover will not open.	• The air pressure inside the camera is lower than the outside air pressure.	• Rotate the bottom cover release knob and at the same time use the bottom cover release projection on the strap fastener.	18
"H" is displayed on the LCD panel.	• The self-diagnosis function detected an error.	• Remove the battery from the camera. When the "H" disappears from the LCD panel, load the battery again.	19
The film cartridge compartment cover will not open, even when the frame counter reads "0".	• Rewinding was not fully completed.	• Press the  button.	27

Questions and Answers

Q1 Can conventional 135 (35mm) film be used?

A1 No it cannot be used. Use IX240 film cartridges.
(→ 21)

Q2 Can color slide (reversal) film be used with this camera?

A2 Not in Underwater Macro mode. It can be used in other situations (on land and underwater) and other photography modes.

Q3 What is ISO?

A3 The ISO number indicates the film's sensitivity to light in numerical terms. The higher the number, the more sensitive the film is to light.

Q4 When converted to a 35mm camera, what is this camera's 23 mm lens focal length equivalent to?

A4 Approximately 29 mm (for H prints).

Specifications

Type: IX240 fully-automatic waterproof lens-shutter AF camera with built-in magnetic IX functions

Image Size: 16.7 × 30.2 mm

Lens: Canon 23 mm f/4.8 lens

Underwater Capability: Capable of underwater photography to depths of up to 5 m/16.4 ft.

Focusing: Active autofocus (fixed underwater)

Focusing Distance: On land: 0.6 m to ∞/2 ft. to ∞

(Flash OFF: 1 m to ∞/3.3 ft. to ∞)

Underwater: 0.9 to 3 m/3 to 9.8 ft.

Underwater Macro: 0.45 to 0.9 m/1.5 to 3 ft.

Shutter: Combination aperture and program electromagnetically driven shutter

Viewfinder: Albada-type viewfinder

Coverage: Approx. 85%





Viewfinder Displays: Picture frame, AF frame

Viewfinder Eyepiece Indicators:

Green indicator: Combination camera-ready indicator, proximity warning and Underwater Macro mode indicator

Orange indicator: Combination flash ready indicator and camera shake warning

The table below shows the proximity warning range.

Film Type	Flash Mode	Warning Range
C/H	Not  or 	30 to 60 cm (1 to 2 ft.)
		30 cm to 1 m (1 to 3.3 ft.)
P	Not 	30 cm to 2 m (1 to 6.6 ft.)

Film Cartridge Loading: Automatic

Film Advance: Automatic with film cartridge mid-roll rewind

Frame Counter: Counts up during film advance and counts down during film rewinding

Self-Timer: 10 sec. delayed shutter release with operation display

Metering Range: Flash Auto and Flash ON:

1/650 at f/14 to 1/60 at f/4.8

Flash OFF and Slow-Synchro:

1/650 at f/14 to 1/2 at f/4.8

Film Speed: ISO 25-10000, set automatically in 1/3-step increments

Built-in Flash: Internal flash fires automatically in low-light conditions

Flash Range: ISO 100: 0.6 to 2.3 m/2 to 7.5 ft.
ISO 200: 0.6 to 3.2 m/2 to 10.5 ft.
(on land using negative color film)

Flash Recycling Time: Approx. 3 seconds (with new battery)

Shooting Modes:

Flash Auto: Fires automatically in low-light conditions

Flash Auto with Red-eye Reduction: Fires automatically in low-light conditions

Flash ON: Forced flash

Flash OFF: Never fires

Slow-Synchro: Forced flash (with Red-eye Reduction)

Underwater macro: Forced flash

Date & Time/Title Imprinting:

Imprinted data: Date & time or title (5 selections in 6 languages)

Clock function: Built-in automatic calendar up to 2040

Character types: Dependent on processing lab specifications

Imprinting color: Dependent on processing lab specifications

Power Supply: One lithium battery (CR2, 3V)

Number of Shots: Approx. 18 cartridges of 25-exposure film (normal temperature with 50% flash use)

Dimensions (W × H × D): 105 × 74.6 × 46.7 mm/4.1 × 2.9 × 1.8 in.

Weight: 220 g/7.8 oz. (excluding battery)

- All data are based on Canon's Standard Test Method.
- Product specifications and design are subject to change without notice.