



Canon

Canon

DIGITAL CAMERA



ENGLISH

PowerShot SD10  
DIGITAL ELPH

DIGITAL  
IXUS i

Camera User Guide

Canon



DiGiC



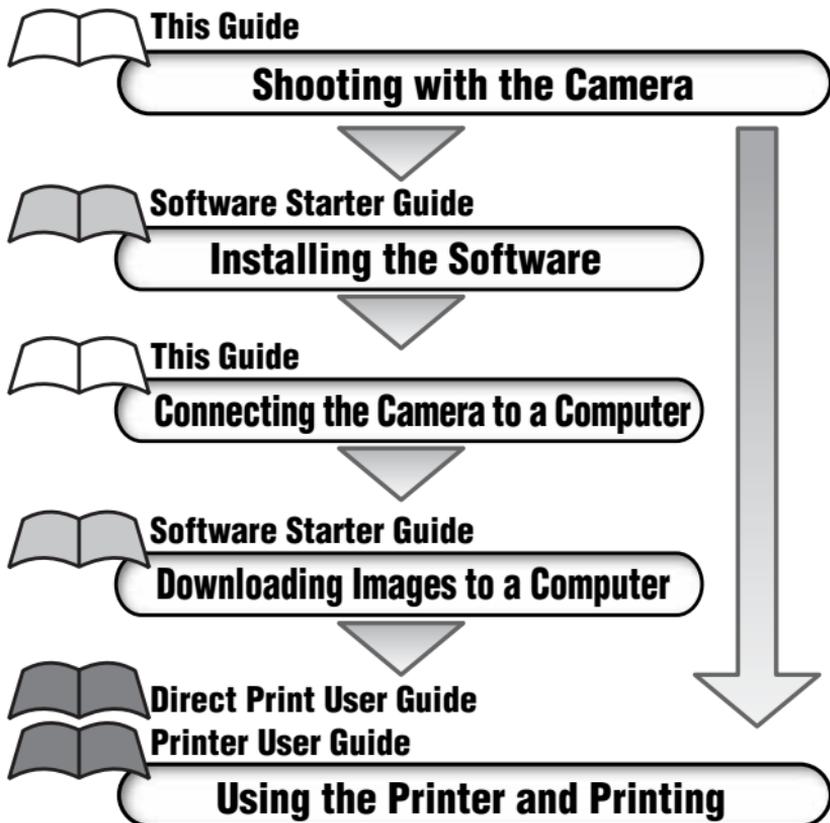
PowerShot SD10  
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# Camera User Guide

Please read the *Read This First* section (p. 7).  
Please also read the *Software Starter Guide* and the *Direct Print User Guide*.

## Flowchart and Reference Guides



**Use of genuine Canon accessories is recommended.**

This product is designed to perform optimally when used with genuine Canon accessories. Canon shall not be liable for any damage to this product and/or accidents such as fire, etc., caused by the malfunction of non-genuine Canon accessories (e.g., a leakage and/or explosion of a battery pack). Please note that this warranty does not apply to repairs arising out of the malfunction of non-genuine Canon accessories, although you may request such repairs on a chargeable basis.

## **Camera Body Temperature**

If your camera is used for prolonged periods, the camera body may become warm. Please be aware of this and take care when operating the camera for an extended period.

## **About the LCD Monitor**

The LCD monitor is produced with extremely high-precision manufacturing techniques. More than 99.99% of the pixels operate to specification. Less than 0.01% of the pixels may occasionally misfire or appear as red or black dots. This has no effect on the recorded image and does not constitute a malfunction.

## **Video Format**

Please set the camera's video signal format to the one used in your region before using it with a TV monitor (p. 123).

## **Charging the Date/Time Battery**

- The camera has a built-in rechargeable lithium battery that maintains the date, time and other camera settings. This battery recharges when the main battery pack is inserted into the camera. When you first purchase the camera, place a charged battery pack in it for at least 4 hours to charge the date/time battery. It will charge even when the camera power is set to Off.
- If the Date/Time menu appears when the camera power is turned on, it means that the date/time battery charge is depleted. Recharge it as described above.

### Conventions Used in the Text



: This mark denotes issues that may affect the camera's operation.



: This mark denotes additional topics that complement the basic operating procedures.

In this guide SD memory card (Secure Digital, a copyright protection system) is referred to as SD card.

### Question? Look Here First

What settings are available under each function?

Will my settings remain in effect even after I've turned the camera off?

- See *Menus and Messages Lists* (p. 130).

What can be accomplished with each function?

- See *FUNC. Menu* (p. 130).
- See *Rec. Menu* (p. 132).
- See *Play Menu* (p. 134).
- See *Set up Menu* (p. 136).
- See *My Camera Menu* (p. 141).

What do the icons listed in the *Camera User Guide* mean?

- See *Information Displayed on the LCD Monitor* (p. 37).
- See *Menu Settings and Factory Defaults* (p. 50).

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Items marked with  are lists or charts that summarize camera functions or procedures.

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## Please Read

### Test Shots

Before you try to photograph important subjects, we highly recommend that you shoot several trial images to confirm that the camera is operating and being operated correctly.

Please note that Canon, its subsidiaries and affiliates, and its distributors are not liable for any consequential damages arising from any malfunction of a camera or accessory, including SD memory cards, that results in the failure of an image to be recorded or to be recorded in a format that is machine readable.

### Warning Against Copyright Infringement

Please note that Canon digital cameras are intended for personal use and should never be used in a manner that infringes upon or contravenes international or domestic copyright laws and regulations. Please be advised that in certain cases the copying of images from performances, exhibitions, or commercial properties by means of a camera or other device may contravene copyright or other legal rights even if the image was shot for personal use.

### Warranty Limitations

This camera's warranty is only effective in the country of sale. If a problem arises while the camera is in use abroad, please convey it back to the country of sale before proceeding with a warranty claim to a Canon Customer Support Help Desk.

**For Canon Customer Support contacts, please see the Canon Limited Warranty supplied with your camera.**

## Safety Precautions

- Before using the camera, please ensure that you read and understand the safety precautions described below. Always ensure that the camera is operated correctly.
- The safety precautions noted on the following pages are intended to instruct you in the safe and correct operation of the camera and its accessories to prevent injuries or damage to yourself, other persons and equipment.
- In the next few pages, the term equipment refers primarily to the camera and its power supply accessories, such as the battery charger.

### **Storing SD cards**

**Store the SD memory card out of the reach of children and infants.**

It may be swallowed accidentally. If this occurs, consult a doctor immediately.

### **Warnings**

- **Do not aim the camera directly into the sun or at other intense light sources that could damage your eyesight.**
- **Do not trigger the flash in close proximity to human or animal eyes.**  
Exposure to the intense light produced by the flash may damage eyesight. In particular, remain at least one meter (39 inches) away from infants when using the flash.
- **Store this equipment out of the reach of children and infants.** Accidental damage to the camera or batteries by a child could result in serious injury. In addition, placement of the strap around the child's neck could result in asphyxiation.
- **Do not attempt to disassemble or alter any part of the equipment that is not expressly described in this guide.** Disassembly or alteration may result in high-voltage electrical shock. Internal inspections, alterations and repairs should be conducted by qualified service personnel authorized by your camera distributor or a Canon Customer Support Help Desk.

- 
- **To avoid the risk of high-voltage electrical shock, do not touch the flash portion of the camera if it has been damaged.** Similarly, never touch internal portions of the equipment that become exposed as a result of damage. There is a risk of high-voltage electrical shock. Please take the first opportunity to consult your camera distributor or the closest Canon Customer Support Help Desk.
- 
- **Stop operating the equipment immediately if it emits smoke or noxious fumes.** Failure to do so may result in fire or electrical shock. Immediately turn the camera power off, remove the camera battery or unplug the battery charger from the power outlet. Confirm that smoke or fume emissions have ceased. Please consult your camera distributor or the closest Canon Customer Support Help Desk.
- 
- **Stop operating the equipment if it is dropped or the casing is damaged.** Failure to do so may result in fire or electrical shock. Immediately turn the camera power off, remove the camera battery or unplug the battery charger from the power outlet. Please consult your camera distributor or the closest Canon Customer Support Help Desk.
- 
- **Do not allow the equipment to come into contact with, or become immersed in, water or other liquids.** Do not allow liquids to enter the interior. The camera has not been waterproofed. If the exterior comes into contact with liquids or salt air, wipe it dry with a soft, absorbent cloth. If water or other foreign substances enter the interior, immediately turn the camera power off and remove the camera battery or unplug the battery charger from the power outlet. Continued use of the equipment may result in fire or electrical shock. Please consult your camera distributor or the closest Canon Customer Support Help Desk.
- 
- **Do not use substances containing alcohol, benzene, thinners or other flammable substances to clean or maintain the equipment.** The use of these substances may lead to fire.
- 
- **Remove the power cable on a regular periodic basis and wipe away the dust and dirt that collects on the plug, the exterior of the power outlet and the surrounding area.** In dusty, humid or greasy environments, the dust that collects around the plug over long periods of time may become saturated with humidity and short-circuit, leading to fire.
-

- 
- **Do not cut, damage, alter or place heavy items on the power adapter cable.** Any of these actions may cause an electrical short circuit, which may lead to fire or electrical shock.
- 
- **Do not handle the power cable if your hands are wet.** Handling it with wet hands may lead to electrical shock.
- 
- **Use only recommended power accessories.** Use of power sources not expressly recommended for this equipment may lead to overheating, distortion of the equipment, fire, electrical shock or other hazards.
- 
- **Do not place the batteries near a heat source or expose them to direct flame or heat.** Neither should you immerse them in water. Such exposure may damage the batteries and lead to the leakage of corrosive liquids, fire, electrical shock, explosion or serious injury.
- 
- **Do not attempt to disassemble, alter or apply heat to the batteries.**  
There is serious risk of injury due to an explosion. Immediately flush with water any area of the body - including the eyes and mouth, or clothing - that comes into contact with the inner contents of a battery. If the eyes or mouth contact these substances, immediately flush with water and seek medical assistance.
- 
- **Avoid dropping or subjecting the batteries to severe impacts that could damage the casings.** It could lead to leakage and injury.
- 
- **Do not short-circuit the battery terminals with metallic objects, such as key holders.** It could lead to overheating, burns and other injuries. Use the supplied terminal cover to transport or store the battery pack.
- 
- **Before you discard a battery, cover the terminals with tape or other insulators to prevent direct contact with other objects.** Contact with the metallic components of other materials in waste containers may lead to fire or explosions. Discard the batteries in specialized waste facilities if available in your area.
- 
- **Use only recommended batteries and accessories.** Use of batteries not expressly recommended for this equipment may cause explosions or leaks, resulting in fire, injury and damage to the surroundings.
- 
- **Use the specified battery charger to charge Battery Pack NB-3L.** Use of other chargers may lead to overheating, distortion of the equipment, fire or electrical shock.
-

- 
- **Disconnect the battery charger from the power outlet after recharging and when it is not in use to avoid fire and other hazards.** Continuous use over a long period may cause a unit to overheat and distort, resulting in fire.
  - **The camera terminal of the battery charger is designed for exclusive use with your camera.** Do not use it with other products or batteries. There is a risk of fire and other hazards.
- 

### **Caution about magnetic fields**

Keep objects that are sensitive to magnetic fields (such as credit cards) away from the speaker of the camera (p. 16). Such items may lose data or stop working.

## Cautions

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- **Avoid using, placing or storing the equipment in places subject to strong sunlight or high temperatures, such as the dashboard or trunk (boot) of a car.** Exposure to intense sunlight and heat may cause the batteries to leak, overheat or explode, resulting in fire, burns or other injuries. High temperatures may also cause deformation of the casing. Ensure that there is good ventilation when using the battery charger to charge the battery pack.

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  - **Do not store the equipment in humid or dusty areas.** Storage in such areas could lead to fire, electrical shock or other damage.

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  - **Be careful not to bang the camera or subject it to strong impacts or shocks that could lead to injury or damage the equipment when wearing or holding it by the strap.**

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  - **Be careful not to touch the interior of the battery compartment.** This could lead to injuries or damage the camera.

---

  - **Be careful not to cover the flash with your fingers or clothing when shooting.** The flash may be damaged and emit smoke or noise. In addition, do not touch the surface of the flash after taking several pictures in rapid succession. Either action could result in burns.

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  - **Do not operate the flash with dirt, dust or other items stuck to its lens.** The resulting heat build-up could damage the flash.

---

  - **Ensure that the battery charger is plugged into a power outlet of the specified rating, not over the specified rating.** The plug of the battery charger varies according to region.

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  - **Do not use the battery charger if the plug is not fully inserted into the power outlet.**

---

  - **Do not allow metal objects (such as pins or keys) or dirt to contact the charger terminals or plug.**

---

  - **If your camera is used for prolonged periods, the camera body may become warm.** Please take care when operating the camera for extended periods as your hands may experience a burning sensation.
-

## Preventing Malfunctions

### **Avoid Strong Magnetic Fields**

Never place the camera in close proximity to electric motors or other equipment generating strong electromagnetic fields. Exposure to strong magnetic fields may cause malfunctions or corrupt image data.

### **Avoid Condensation Related Problems**

Moving the equipment rapidly between hot and cold temperatures may cause condensation (water droplets) to form on its external and internal surfaces. You can avoid this by placing the equipment in an airtight, resealable plastic bag and letting it adjust to temperature changes slowly before removing it from the bag.

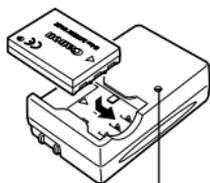
### **If Condensation Forms Inside the Camera**

Stop using the camera immediately if you detect condensation. Continued use may damage the equipment. Remove the SD card and battery from the camera and wait until the moisture evaporates completely before resuming use.

### **Extended Storage**

When not using the camera for extended periods of time, remove the battery pack and store the equipment in a safe place. Storing the camera for extended periods with a battery pack installed will run down the battery pack and may damage the camera. The date, time and other camera settings may reset to default settings if the battery pack has been removed for more than three weeks. Follow the instructions in this guide to reset the desired settings.

## Quick Start

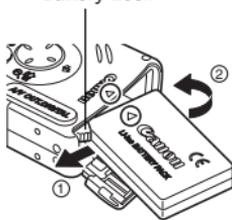


Charge Indicator

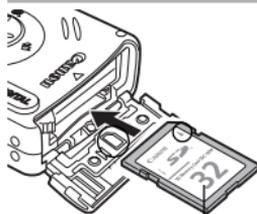
**1 Charge the battery pack (p. 20).**

Charge the battery pack using the supplied battery charger. The charging is complete when the charge indicator turns from red to green.

Battery Lock

**2 Install the battery pack (p. 23).**

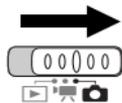
- Slide the SD card slot/battery cover open and press the battery lock while you insert the battery pack.
- Align the arrows on the battery pack and on the camera to correctly insert the battery pack.



Front

**3 Install the SD card and close the SD card slot/battery cover (p. 25).**

- Insert the SD card as shown on the inside of the battery cover until you hear it click into place.
- Do not touch or allow metal objects to contact the terminals on the back of the SD card.

**4 Slide the mode switch to  (Shooting) (p. 34).**

ON/OFF

**5 Turn on the power (p. 32).**

The indicator blinks green, then shuts off.



## 6 Focus (p. 43).

Aim the camera and lightly press (halfway) the shutter button. Two beeps will sound when the autofocus is set.



## 7 Shoot (p. 43).

Press the shutter button fully. You will hear the sound of the shutter close when the shot is complete.



## 8 View the recorded image (p. 55).

The recorded image displays for approximately 2 seconds. To continue displaying the image, keep the shutter button pressed or hold the shutter button until you press the **SET** button and then release both.



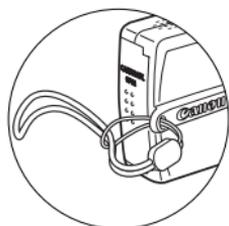
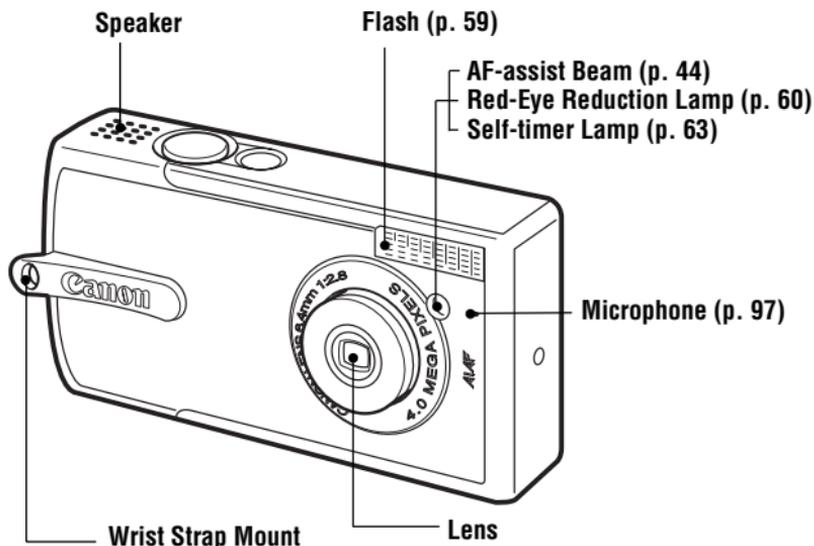
### To Immediately Erase the Displayed Image

1. Press the  button while the image is displayed.
2. Confirm that [Erase] is selected and press the **SET** button.



- Set the date and time if the Date/Time menu appears (p. 28).
- You can change the language in which menus are displayed (p. 30).
- To view the other images you have photographed, refer to the *Playback* section (p. 87).
- After you finish using the camera, press the **ON/OFF** button to shut the power off.

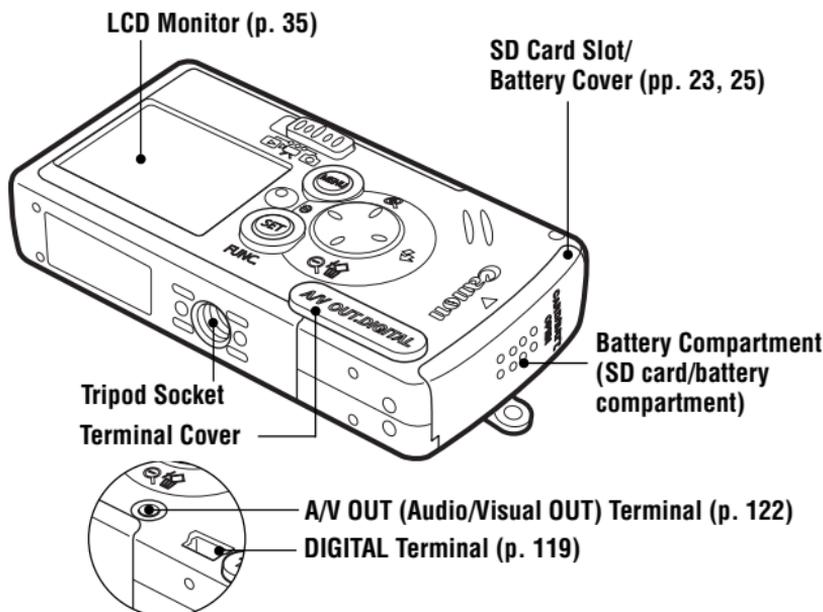
## Front View



Attaching the Wrist Strap\*

\* Be careful not to wave the camera about or catch it on other items when dangling it from the wrist strap.

## Back View



The following cables are used to connect the camera to a computer or printer.

### Computer (p. 118)

USB Interface Cable IFC-300PCU (supplied with the camera)

### Direct Print Compatible Printers (Sold Separately)

- CP Printers

USB interface Cable IFC-300PCU (supplied with camera) or the Direct Interface Cable DIF-100 (supplied with the printer).

- Bubble Jet Printers

- *Canon Direct Print* Compatible Printers:

Please refer to your Bubble Jet printer user guide.

- *PictBridge* Compliant Printers:

USB Interface Cable IFC-300PCU (supplied with the camera)

- *PictBridge* Compliant Non-Canon Printers

USB Interface Cable IFC-300PCU (supplied with the camera)

Please refer to the **System Map** or the **Direct Print User Guide** supplied with the camera for direct print compatible printer information.



## Indicator

The indicator lights or blinks when the **ON/OFF** button or shutter button is pressed.

**Green:** Ready to shoot/LCD monitor Off/Computer connection

**Blinking Green:** Starting-up/Recording to SD card/Reading SD card/  
Erasing from SD card/Transmitting data (during a  
computer connection)

**Orange:** Ready to shoot (flash on)

**Blinking Orange:** Ready to shoot (camera shake warning)

\* The camera beeps once when a focusing difficulty arises.  
Although you can still press the shutter button when the  
indicator blinks orange, you are recommended to use the  
focus lock (p. 71).

### Holding the Camera

Images become blurred if the camera moves when the shutter button is pressed. Hold the camera as shown below to avoid camera movement when shooting.

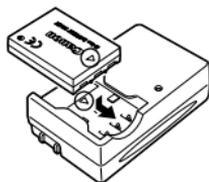


Hold the camera firmly with both hands and let your elbows rest at your sides. Place your finger on the shutter button as you hold the camera.

- Make sure that your hair or fingers do not obstruct the lens, flash, self-timer lamp, microphone or speaker.
- Fix the camera onto a tripod when shooting infinity shots or in dark places.

## Charging the Battery Pack

Use the following procedures to charge the battery pack the first time you use the camera or when the “Change the battery pack” message displays.



### 1 Insert the battery pack into the battery charger.

Align the battery pack according to the arrows on the battery and the charger. Insert the battery securely.



Charge Indicator



### 2 Battery charger model names and types vary by region.

(For CB-2LU)

#### Plug the battery charger into a power outlet.

(For CB-2LUE)

#### Attach the power cord to the battery charger and plug it into a power outlet.

- The charge indicator will light red while the battery pack is charging. It will change to green when the charge is complete.
- After charging, unplug the battery charger and remove the battery pack.



To protect the battery pack and prolong its life, do not charge it for longer than 24 hours continuously.



- Since this is a lithium ion battery pack, you need not completely discharge it before recharging. It can be recharged at any point. However, since the maximum number of charge cycles is approximately 300 times (battery life), you are recommended to charge the battery pack after having discharged it completely to prolong battery life.
- It takes approximately 95 minutes to fully charge the battery pack from a fully discharged state (based on Canon's testing standard). Charging it within a temperature range of 5° to 40 °C (41° to 104 °F) is recommended.
- Charge times may vary according to the ambient temperature and the battery pack's charge state.
- See *Battery Capacity* (p. 155).
- You may hear a noise during charging. This is not a malfunction.

### Handling Precautions

- Keep the battery pack terminals ( $\oplus$   $\oplus$   $\ominus$ ) clean at all times. Dirty terminals may cause poor contact between the battery pack and camera. Polish the terminals with a tissue or a dry cloth before charging or using the battery pack.
- Do not rapidly overturn or wave the battery charger around when it contains the battery pack. The battery pack could fly out.
- At low temperatures, battery pack performance may be reduced and the low battery icon may appear earlier than usual. Under these conditions, resuscitate the battery pack by warming it in a pocket immediately before use. However, ensure that there are no metallic items in the pocket that could cause a short circuit, such as a key holder, etc.
- Do not place anything, such as tablecloths, carpets, bedding or cushions, on top of the battery charger while it is charging. Heat will build up and could result in a fire.
- Do not charge batteries other than Battery Pack NB-3L in this charger.
- The battery pack continues to discharge a minimal portion of its power while installed in the camera, even with the power off, or in the charger. This will shorten battery life.

- Do not allow any metal objects such as key rings to touch the  $\oplus$  and  $\ominus$  terminals (Fig. A), as this can damage the battery pack. To carry the battery pack or store it during periods of disuse, always replace the terminal cover (Fig. B) and store it in a cool, dry place. Recharge it fully before using it again.

Fig. A



Fig. B



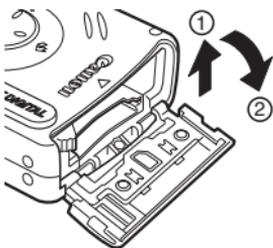
- Even charged battery packs continue to discharge naturally. You are advised to charge the battery on the day of use, or one day before, to ensure a full charge.
- Since storing a fully charged battery pack for long periods of time (about 1 year) can shorten its life cycle or affect performance, you are recommended to use the battery pack in the camera until it is completely discharged and to store it at normal temperature (23 °C/73 °F) or lower. If you do not use the battery pack for long periods of time, charge it fully and discharge it fully in the camera at least once a year before returning it to storage.
- If the performance of the battery pack diminishes substantially even when it is fully charged, its life has been exceeded and it should be replaced.

## Installing the Battery Pack

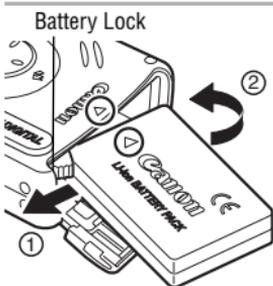
Install Battery Pack NB-3L (supplied).



Please recharge the battery pack (p. 20) before you use it for the first time.

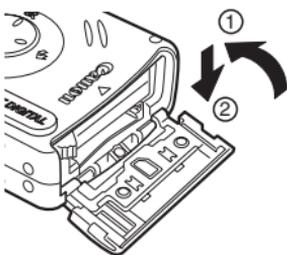


**1** Slide the SD card slot/battery cover in the direction of the arrows.



**2** Press the battery lock while inserting the battery pack all the way in until the lock clicks.

- Insert the battery pack correctly by aligning the arrows on the rear of the camera and the battery pack.
- To remove the battery pack, pull the battery pack out while pressing the battery lock in the direction of ①.



**3** Slide the SD card slot/battery cover closed.



- Do not turn off the power or open the SD card slot/battery cover while the indicator blinks green. The camera is writing, reading, erasing or transmitting an image to or from the SD card.
- Remove the battery pack when the camera is not in use. Please note, however, that the date, time and other camera settings may reset to the default settings if the battery pack has been removed for more than three weeks.

## Battery Pack Charge

The following icons and messages will display when the battery pack charge is low.

	Battery pack charge is low. Recharge it as soon as possible before it is required for an extended period. When the LCD monitor is off, this icon will display when you press any button other than the <b>ON/OFF</b> button.
<b>Change the battery pack</b>	Battery charge is insufficient to operate the camera. Replace the battery pack immediately.



See *Battery Capacity* (p. 155).

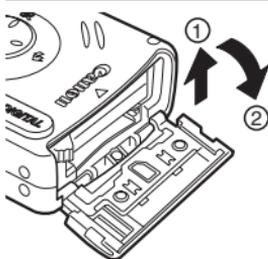
## Installing the SD Card

### Write Protect Tab

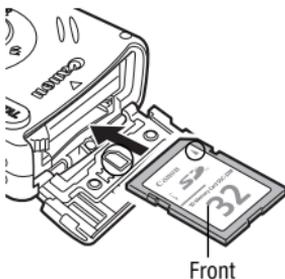
The SD card has a write protect tab. Sliding the tab downward prevents recording of data and protects existing data (e.g. images). When recording to, erasing from or formatting the SD card, slide the tab upward.



Turn the camera power off and insert the SD card with the following procedures.

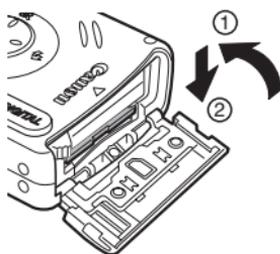


**1** Slide the SD card slot/battery cover in the direction of the arrows.



**2** Insert the SD card.

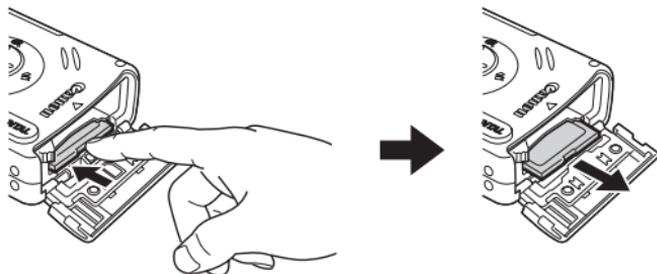
- Insert the SD card as shown on the inside of the battery cover until you hear it click into place.
- Do not touch or allow metal objects to contact the terminals on the back of the SD card.



### 3 Slide the SD card slot/battery cover closed.

#### To remove the SD card

Push in the SD card until you hear it click, then release it.



- Since the camera is writing, reading, erasing or transmitting data to or from the SD card when the indicator blinks green, never perform the following actions during this time. It could corrupt the image data.
  - Subject the camera body to vibration or shocks.
  - Turn the camera's power off, or open the SD card slot/battery cover.
- Please note that SD cards formatted with other manufacturers' cameras or a computer, or formatted or edited with application programs, may slow down writing to the SD card or may not operate correctly in the camera.
- You are recommended to use SD cards that have been formatted in your camera (p. 104). The card supplied with the camera may be used without further formatting.



See *SD Cards and Estimated Capacities* (p. 156).

### Handling Precautions for SD Cards

- SD cards are high-precision electronic devices. Do not bend them, apply force to them, or subject them to shocks or vibration.
- Do not attempt to disassemble or alter the SD card.
- Do not allow dirt, water or foreign objects to contact the terminals on the back of the card. Do not touch the terminals with your hands or metal objects.
- Do not peel away the original label on the SD card or cover it with another label or sticker.
- When writing on the SD card, use a soft point pen (e.g. felt-tip pen). Using a sharp point pen (e.g. ball-point pen) or pencil may damage the SD card or corrupt the recorded data.
- Since some or all of the data recorded on the SD card may be corrupted or erased by electrical noise, static electricity or card malfunction, making a backup copy of important data is recommended.
- Moving an SD card rapidly between temperature extremes will cause condensation to form in the card and lead to a malfunction. To avoid condensation, place the SD card in a sealed plastic bag before moving it into a different temperature zone and allow it to adjust slowly to the new temperature.
- If condensation forms on the SD card, store it at room temperature until the water droplets have evaporated naturally.
- Do not use or store SD cards in the following locations.
  - Locations subject to dust or sand
  - Locations subject to high humidity and high temperatures

### Precaution for Multi Media Cards

This camera is designed to perform optimally when used with genuine Canon-brand SD cards. You may use multi media cards (MMC) with this camera. However, Canon makes no warranties concerning the use of multi media cards (MMC).

## Setting the Date and Time

The Date/Time menu will appear the first time the camera power is turned on or whenever the built-in rechargeable lithium date/time battery charge is low. Start from Step 5 to set the date and time.

ON/OFF



**1** Press the ON/OFF button until the indicator blinks green.



**2** Press the MENU button.

The (Rec.) or (Play) menu is displayed.

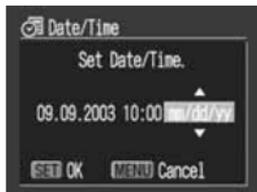


**3** Use the or button to select the (Set up) menu.



**4** Use the or button to select and press the SET button.





## 5 Set the date and time.

- Use the ◀ or ▶ button to select a field (year, month, day, hour, minute and date format).
- Use the ▲ or ▼ button to change its value.



## 6 Press the SET button.

The setting is complete.



## 7 Press the MENU button.

The display will return to the Shooting or Playback screen.



- Please note that the date and time settings may reset to the default settings if the camera battery has been removed for more than three weeks. Reset them when this occurs.
- Setting the date and time settings does not cause the date/time stamp to appear on images. For printing images with the date on them, refer to the *Direct Print User Guide* or *Software Starter Guide*.



### Charging the Date/Time Battery

- The camera has a built-in rechargeable lithium battery for saving settings such as the date and time. This battery is recharged by the battery pack while it is in the camera. Right after purchasing the camera, leave a charged battery pack in the camera for about 4 hours to charge the date/time battery. It will charge even when the camera power is turned off.
- If the Date/Time menu appears when the camera power is turned on, the date/time battery charge is low. Use the above method to recharge it.

## Setting the Language

Use this feature to select the language for the LCD monitor display.



**1** Press the **ON/OFF** button until the indicator blinks green.



**2** Press the **MENU** button.

The  (Rec.) or  (Play) menu is displayed.



**3** Use the **◀** or **▶** button to select the  (Set up) menu.



**4** Use the **▲** or **▼** button to select  and press the **SET** button.





- 5** Use the **▲**, **▼**, **◀** or **▶** button to select a language and press the **SET** button.



- 6** Press the **MENU** button.  
The display will return to the Shooting or Playback screen.



The Language menu can also be displayed in playback mode by holding down the **SET** button and pressing the **MENU** button. This function cannot be used while a movie clip is played back, or a separately sold printer is connected to the camera.

## Turning the Power On

ON/OFF



**Press the ON/OFF button until the indicator blinks green.**

- The lens extends when the mode switch is set to  or .
- The lens retracts approximately 1 minute after changing the mode switch position from  or  to .

### To turn the power off

Press the **ON/OFF** button again.



- If the "Card locked!" message appears right after the power is turned on, the SD card cannot record (p. 25).
- The Date/Time menu will appear the first time the camera power is turned on or whenever the built-in rechargeable lithium battery charge is low. Reset the date and time when this occurs (p. 28).
- If the power saving function activates, press the **ON/OFF** button to restore power. (p. 33)
- You will hear a start-up sound and see the start-up image when the power is turned on. (To change the start-up sound and image, see pp. 124, 141)
- The start-up image does not display when the camera is connected to a TV via the A/V OUT terminal.



## Turning On the Camera without the Start-Up Sound and Start-Up Image

Hold the **SET** button down while turning on the power.

## Power Saving Function

This camera is equipped with a power saving function.

When this function is turned on and it activates, restore power by pressing the **ON/OFF** button.

**Shooting Mode:** Powers down approximately 3 minutes after the last control is accessed on the camera.

The LCD monitor automatically turns off 1 minute\* after the last control is accessed even if [Auto Power Down] is set to [Off]. (Press any button except the **ON/OFF** button to turn the LCD monitor back on.)

\* This time can be changed (p. 138).

**Playback Mode:** Powers down approximately 5 minutes after the last control is accessed on the camera.

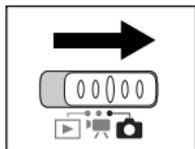
### **Connected to a Printer (sold separately):**

Powers down approximately 5 minutes after the last control is accessed on the camera or on a connected printer.

- The power saving function will not activate during auto play or while the camera is connected to a computer.
- The power saving function can be turned off (p. 138).

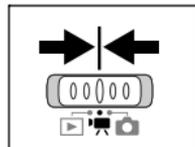
## Switching Between Shooting/Playback

The mode switch is used to select Shooting and Playback functions.



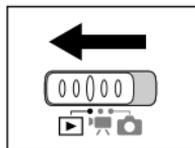
### To Shoot Still Images (Shooting Mode)

Slide the mode switch to .



### To Shoot Movies (Movie Mode)

Slide the mode switch to .



### To Play Back Images (Playback Mode)

Slide the mode switch to .

- When a printer (sold separately) is connected, images can be printed (see the *Direct Print User Guide*).
- When a camera is connected, recorded images can be downloaded to and viewed with a computer (p. 118).



- When a printer (sold separately) is properly connected, the  ,  or  icon appears on the LCD monitor.
- When a computer is properly connected, the LCD monitor turns off.

## Using the LCD Monitor

The LCD monitor can be used to compose images while shooting, adjust menu settings and play back recorded images. Icons showing the camera's status and setting contents appear on the LCD monitor. You can change the information display contents using  in the  (Set up) menu.



The image in the LCD monitor will darken in strong sunlight or bright light. This does not constitute a malfunction.

### Shooting Information (Shooting Mode)

[Off]



[On]



### Review Information (Review of an Image Right After It Is Shot)

[Off]



[On]



### Replay Information (Playback Mode)

[Off]



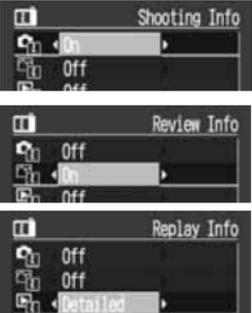
[Standard]



[Detailed]



## How to Change the Information Displayed on the LCD Monitor

	<b>1</b> Press the <b>ON/OFF</b> button until the indicator blinks green.
	<b>2</b> Press the <b>MENU</b> button. The  (Rec.) or  (Play) menu is displayed.
 	<b>3</b> Select  from the  (Set up) menu and press the <b>SET</b> button.
 	<b>4</b> Use the  or  button to select  ,  or  and use the  or  button to select the contents you wish to set.  (Shooting Info) Select [Off] or [On].  (Review Info) Select [Off] or [On].  (Replay Info) Select [Off], [Standard] or [Detailed].
	<b>5</b> Press the <b>MENU</b> button. The display will return to the Menu display. Press the <b>MENU</b> button again to return to the Shooting or Playback screen.



- The LCD monitor settings are saved by the camera when the power is turned off so that the same settings are automatically available when the power is turned on again.
- In Index playback mode (p. 89), the detailed display is not available.

## Information Displayed on the LCD Monitor

When shooting or playing back images, the shooting information, review information or replay information appears on the LCD monitor.

### Shooting Information (Shooting Mode)

When setting the flash, continuous mode or self-timer, the shooting information displays on the LCD monitor for approximately 6 seconds even if [Shooting Info] is set to [Off]. (It may not display under some circumstances, depending on the selected settings.)



A slow shutter speed has likely been selected because of insufficient lighting if the indicator blinks orange after the metering preparations are complete and the camera shake icon  displays in the LCD monitor. Set the flash to  or , or affix the camera to a tripod to shoot.

[ ] Spot AE Point Frame ( and  Mode)
 AF Frame (p. 73)



* Low Battery (p. 24)
 Quick Shot (p. 44)
 Shooting Method (pp. 62, 63)
 Flash (p. 59)
● (Red)* Movie Recording (p. 66)

1.4x 1.8x 2.2x 2.7x 3.6x 4.4x  
5.7x

Zoom Magnification\* (p. 42)  
(Zoom powers appear when the digital zoom is activated.)

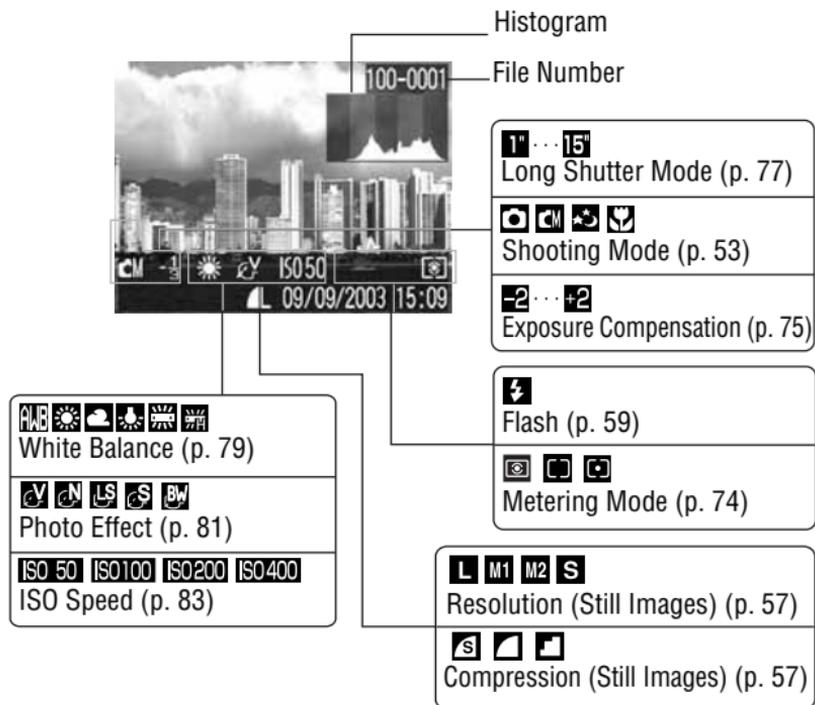
Shots Remaining or Remaining  
Movie Time (sec.)

* Shooting Mode (p. 53)	 Photo Effect (p. 81)
 Exposure Compensation (p. 75)	 Metering Mode (p. 74)
 Long Shutter Mode (p. 77)	 Compression (p. 57)
 White Balance (p. 79)	 Resolution (p. 57)
 ISO Speed (p. 83)	* Camera Shake Warning (p. 37)

\* Appears even if [Shooting Info] is set to [Off].

## Review Information (Review of an Image Right After It Is Shot)

Right after a shot is taken, the image and its information appears in the LCD monitor for 2 seconds (or for the number of seconds selected if the review time was changed (2 - 10 sec.)) even if you release the shutter button. If the **SET** button is pressed while an image is displayed, it will continue to display (p. 55).



If [Review Info] is set to [On] (p. 36), a graph (histogram) allowing you to judge the brightness of the recorded image appears. If necessary, adjust the exposure compensation and re-shoot the image.

## Replay Information—Standard (Playback Mode)

File Number

Image Number — 1/10

Shooting Date

**CF**  
Protection Status (p. 101)

**WAVE**  
WAVE Format Sound (p. 98)

**L M1 M2 S**  
Resolution (Still Images) (p. 57)

**AVI**  
Movie (p. 90)

**S**   
Compression (Still Images) (p. 57)

## Replay Information—Detailed (Playback Mode)

Histogram

**1" ... 15"**  
Long Shutter Mode (p. 77)

Shooting Mode (p. 53)

**-2 ... +2**  
Exposure Compensation (p. 75)

**Flash**  
Flash (p. 59)

Metering Mode (p. 74)

Movie Length Shown on Movie Files (p. 66)

White Balance (p. 79)

Photo Effect (p. 81)

**ISO 50 ISO100 ISO200 ISO400**  
ISO Speed (p. 83)

**320 160**  
Resolution (Movies) (p. 57)

The following information may also be displayed with some images.

	A sound file in a format other than the WAVE format is attached or the file format is not recognized.
	JPEG file with format not conforming to Design rule for Camera File System Standards
	RAW format file
	File with unrecognized format



Please note that image information recorded by this camera may not display correctly on other cameras and image information recorded by other cameras may not display correctly on this camera.

## Histogram Function

The histogram is a graph that allows you to judge the brightness of the shot image. The greater the bias toward the left in the graph, the darker the image. The greater the bias toward the right, the brighter the image. If the image is too dark, adjust the exposure compensation to a positive value. Similarly, adjust the exposure compensation to a negative value if the image is too bright (p. 75).

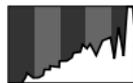
### Sample Histograms



**Dark Image**



**Balanced Image**



**Bright Image**

## Using the Digital Zoom

When using the digital zoom, images can be zoomed to approximately 1.4x, 1.8x, 2.2x, 2.7x, 3.6x, 4.4x or 5.7x.



### 1 Press the button.

- The magnification factor appears in the upper right corner of the LCD monitor.
- Press the  button again to further zoom the image.
- Press the  button to zoom out.



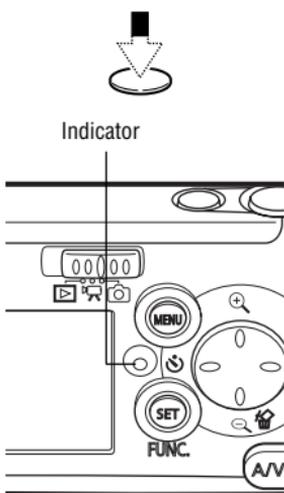
- Images become coarser the more they are digitally zoomed. However, the actual recorded image is not as coarse as it appears in the LCD monitor.
- You can set the camera to prohibit digital zooming (p. 133).

## Pressing the Shutter Button

The shutter button features a two-stage action. You can also shoot images with a single press of the shutter button without pressing it halfway first (Quick Shot).

### Pressing Halfway

Pressing halfway automatically sets the exposure, focus and white balance.



### Press the shutter button halfway.

#### ● Indicator Status

- Green: Metering complete (two beeps sound)
- Orange: Flash will fire
- Blinking Orange: Camera shake warning/Insufficient exposure

#### ● AF Frame Status

##### AiAF On (p. 73)

- Green Frame: Metering complete (focused AF frame)
- No Frame: Focusing difficulty\*

##### AiAF Off (p. 73) (Center AF Frame)

- Green Frame: Metering complete
- Yellow Frame: Focusing difficulty\*

\* The camera beeps once when a focusing difficulty arises.

### Pressing Fully

Pressing the shutter button down fully activates the shutter and causes the shutter sound to sound.



### Press the shutter button fully.

While the image is being recorded to the SD card, the indicator blinks green.



Shots cannot be taken while the flash is charging.

### AF-assist Beam

- The AF-assist Beam will sometimes emit when the shutter button is pressed halfway to assist focusing in certain conditions, i.e., dark conditions.
- The AF-assist Beam can be turned off (p. 132).  
For example, if animals are your subject, turn off the beam when shooting in the dark to avoid startling them.  
However, please keep in mind the following facts.
  - Turning the AF-assist Beam off or shooting in dark places may make it more difficult for the camera to focus.
  - The red-eye reduction lamp may emit when the flash is set to or even if the AF-assist Beam is turned off.

### Quick Shot

By pressing the shutter button fully without stopping mid-way, you can shoot certain pictures you might have missed otherwise.

- Confirm that appears on the LCD monitor before using the Quick Shot function (p. 132).
- Hold the camera firmly with both hands since camera shake may become a factor.
- It may be impossible to focus on subjects that are closer than approximately 1.5 meters (4.9 ft.). If this happens, press the shutter button halfway to focus and shoot the image.

### About the Autofocus Function

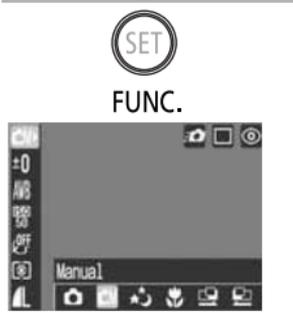
This camera employs AiAF (artificial intelligence autofocus) technology which uses a broad metering field to calculate the focal distance with high precision. It delivers a crisp focus even when the photographic subject is slightly off-center.

The AiAF function can be turned off so that the autofocus is metered from a fixed AF frame at the center of the field (p. 73).

## Selecting Menus and Settings

Menus are used to adjust shooting and playback settings, as well as other camera settings like the Date/Time and sounds. Menus are displayed by pressing the **SET/FUNC.** or **MENU** button according to the circumstances. Use the following procedures to select settings. See *Menu Settings and Factory Defaults* (p. 50) for the menu items and options.

### Selecting Menu Settings with the SET/FUNC. Button (Shooting Mode only)

 <p>The diagram shows a circular button with 'SET' in the center and 'FUNC.' below it. Below the button is a camera LCD screen. The screen displays various camera settings on the left and a menu bar at the bottom with the word 'Manual' highlighted.</p>	<p><b>1 Press the SET/FUNC. button.</b></p> <p>The icons of the items that can be adjusted appear at the LCD monitor's left edge.</p>
 <p>A circular directional pad with four arrows pointing up, down, left, and right.</p>	<p><b>2 Use the ▲ or ▼ button to select an item.</b></p>
 <p>The diagram shows the same four-way directional pad as in step 2. Below it is a camera LCD screen. The screen shows camera settings on the left and a menu bar at the bottom with 'MENU' highlighted. The menu bar also shows '2272x1704', 'M1', 'M2', 'S', and '16'.</p>	<p><b>3 Use the ◀ or ▶ button to select an option.</b></p> <ul style="list-style-type: none"> <li>• The icon changes to the icon of the selected option.</li> <li>• Some menu items can only be selected after pressing the <b>MENU</b> button to change the menu.</li> <li>• You can shoot right after performing these steps. The menu displays again after the shot, allowing you to change the settings easily.</li> </ul>
 <p>The diagram shows the circular 'SET/FUNC.' button again.</p>	<p><b>4 Press the SET/FUNC. button.</b></p> <p>The menu will close.</p>

## Selecting Menu Settings with the MENU Button



### 1 Press the MENU button.

In Shooting mode, the (Rec.) menu appears.

In Playback mode, the (Play) menu appears.



### 2 Use the ◀ or ▶ button to select the Rec./Play, Set up, or My Camera menu.

Select the menu with the / , or icon in the upper left corner of the LCD monitor selected.



### 3 Use the ▲ or ▼ button to select an item.



### 4 Use the ◀ or ▶ button to select an option.



Item is set after pressing the **SET/FUNC.** button.



Menu items followed by an ellipsis (...) can only be selected after pressing the **SET/FUNC.** button or the ▶ button to display the next menu. Press the **SET/FUNC.** button again to confirm the setting.



## 5 Press the MENU button.

- The menu will close.
- In Shooting mode, the menu can be closed by pressing the shutter button halfway.

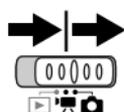


See *Setting the DPOF Print Settings* for the procedures for the  (Print Order) item in the Play menu.

## Selecting Menus and Settings (Cont'd)

### Selecting Settings with the SET/FUNC. Button

Shooting Mode

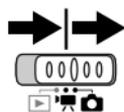


SET  
FUNC.



### Selecting Settings with the MENU Button

Shooting Mode



MENU



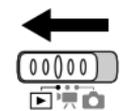
(The menu will appear slightly different depending on the Shooting mode)



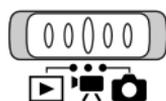
Set up Menu



Playback Mode



MENU



Selects the mode



- Switches between the Rec./ Play menu, the Set up menu and the My Camera menu
- Selects items and options



 : Shooting Mode  
 : Playback Mode



- When the My Camera menu is displayed, pressing the  button returns to the Rec./Play menu.
- When the Rec./Play menu is displayed, pressing the  button displays the My Camera menu.



FUNC.

Turns the FUNC. menu on/off.



Turns the menu (other than the FUNC. menu) on/off.



Sets items and options.

## Menu Settings and Factory Defaults

This chart shows the options and default settings for each menu. Some menu items are not available in certain shooting modes (p. 168).

### Items Set with the SET/FUNC. Button

Menu Item	Available Settings	Reference Page
Shooting Mode	Auto* Manual Long Shutter Macro Stitch Assist (R)/ Stitch Assist (L)	p. 53 p. 65 p. 77 p. 61 p. 68
Exposure Compensation	-2 to $\pm 0^*$ to +2	p. 75
Long Shutter	1* to 15 seconds	p. 77
White Balance	Auto*/ Daylight/ Cloudy/ Tungsten/ Fluorescent/ Fluorescent H	p. 79
ISO Speed	Auto/50*/100/200/400	p. 83
Photo Effect	Effect Off*/ Vivid/ Neutral/ Low Sharpening/ Sepia/ BW	p. 81
Light Metering	Evaluative*/ Center-weighted average/ Spot	p. 74
Resolution (Still images)	2272 x 1704*/ 1600 x 1200/ 1024 x 768/ 640 x 480	p. 57
Resolution (Movie)	320 x 240*/ 160 x 120	
Compression (Still images)	Superfine/ Fine*/ Normal	p. 57

## Items Set with the MENU Button

	Menu Item	Available Settings	Reference Page
 Rec. Menu	 Quick Shot	On*/Off	p. 44
	 AiAF	On*/Off	p. 73
	 Self-Timer	 */ 	p. 63
	 AF-assist Beam	On*/Off	p. 44 p. 132
	 Digital Zoom	On*/Off	p. 42
	 Image Review	Off or 2* to 10 sec.	p. 55
 Play Menu	 Protect	Turns image protection On/Off.	p. 101
	 Rotate	Rotates the image in the display.	p. 95
	 Sound Memo	Adds a sound memo to the image in the display.	p. 97
	 Erase all	Erases all images on the SD card.	p. 103
	 Auto play	Plays back all the images in a slide show.	p. 100
	 Print Order	Sets the print settings.	p. 108
	 Transfer Order	Sets the transfer settings.	p. 114
 Set up Menu	 Mute	On/Off*	p. 136
	 Volume	 Start-up Vol. (Off/1/2*/3/4/5)  Operation Vol. (Off/1/2*/3/4/5)  Selftimer Vol. (Off/1/2*/3/4/5)  Shutter Volume (Off/1/2*/3/4/5)  Playback Vol. (Off/1/2*/3/4/5)	p. 136
	 Info Display	 Shooting Info (Off*/On)  Review Info (Off*/On)  Replay Info (Off*/Standard/Detailed)	p. 36
	 LCD Brightness	-7 to 0* to +7	p. 138
	 Power Saving	 Auto Power Down (On*/Off)  Display Off (10 sec./20 sec./30 sec./1 min.*2 min./3 min.)	p. 33
	 Date/Time	Sets the date and time.	p. 28

	Menu Item	Available Settings	Reference Page
 Set up Menu	 Clock Display	0 – 5* – 10 sec./20 sec./30 sec./1 min./2 min./3 min.	p. 54
	 Format	Formats (initializes) the SD card.	p. 104
	 File No. Reset	On/Off*	p. 85
	 Language	English* /Deutsch / Français / Nederlands / Dansk / Suomi / Italiano / Norsk / Svenska / Español / Chinese / Japanese	p. 30
	 Video System	NTSC/PAL	p. 123
 My Camera Menu	 Theme	 / <b>1</b> * /  / 	p. 124
	 Start-up Image	 / <b>1</b> * /  / 	p. 124
	 Start-up Sound	 / <b>1</b> * /  / 	p. 124
	 Operation Sound	 / <b>1</b> * /  / 	p. 124
	 Selftimer Sound	 / <b>1</b> * /  / 	p. 124
	 Shutter Sound	 / <b>1</b> * /  / 	p. 124

\* Default setting. Default video system setting varies between regions.

- You can apply a desired image and sound to  and  in the My Camera menu. For details, see *Registering My Camera Settings* or the *Software Starter Guide*.
- Camera settings can be reset to the default values (p. 144).

## Selecting a Shooting Mode

The camera features the following shooting modes.

	<b>Auto</b>	Most settings are automatically selected by the camera
	<b>Manual</b>	The exposure compensation, white balance, photo effect and other settings can be manually selected (p. 65).
	<b>Long Shutter</b>	Images are shot with a slow shutter speed (p. 77).
	<b>Macro</b>	Images can be shot from as close as 3 cm (1.2 in.) from the subject (p. 61).
	<b>Stitch Assist</b>	Images are shot in overlapping series to create single panoramic images (p. 68).
	<b>Movie</b>	Shoots movie clips (p. 66).

Some settings selected in each Shooting mode are saved when the power is turned off (p. 168).

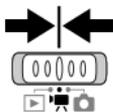
**Selecting** , , , ,  or .

  	<b>1</b> Slide the mode switch to  (Shooting).
 FUNC.	<b>2</b> Press the SET/FUNC. button once.
 	<b>3</b> Use the  or  button to select  ,  ,  ,  ,  or  .



**4** Press the **SET/FUNC.** button once.

## Selecting



**1** Slide the mode switch to  (Movie).



See *Functions Available in Each Shooting Mode* (p. 168).

## Using the Clock



In Shooting mode, the current date and time will appear for 5 seconds\* if you hold down the **SET/FUNC.** button. You can use this function to confirm the date and time at which you shot an image.

\*Default setting

Using the  or  button, you can change the clock's display color while it is displayed. Use this procedure to customize the clock to your preferred color.

The clock display goes off once its set display time laps is reached or when the **SET/FUNC.** button, **MENU** button, mode switch or shutter button is used.

- The clock cannot be displayed when menus are displayed with the **MENU** button.
- The clock's display time laps can be changed in the  (Set up) menu (p. 139).
- The LCD monitor will go off before the Clock Display time laps is reached if the [Display Off] (p. 138) function is set to a shorter time laps.

## Reviewing an Image Right after Shooting

Right after a shot is taken, the image appears in the LCD monitor for 2 seconds. In addition, the images will keep on displaying regardless of the review duration setting if one of the following operations is performed.

- **Keeping the shutter button pressed after a shot.**
- **Pressing the SET button while the image is displayed on the LCD monitor.**

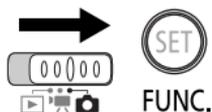
Press the shutter button halfway to stop displaying it so that you can shoot the next frame.



- You can do the following while the image is displayed.
  - Erase the image (p. 102).
  - Magnify the image in the display (p. 88).
- Shooting conditions and setting contents can be displayed on images (p. 39).

## Changing the Review Duration

The default review time is 2 seconds. The review function can be set to [Off] or changed to any time in the range of 2 to 10 seconds in one-second increments.



- Slide the mode switch to (Shooting) and select , , , , or from the FUNC. menu.**  
See *Selecting a Shooting Mode* (p. 53).



- In the (Rec.) menu, select .**  
See *Selecting Menus and Settings* (p. 45).



### 3 Use the ◀ or ▶ button to select review setting and press the MENU button.

- With the [Off] option, the image will not automatically display.
- In the [2 sec.] to [10 sec.] range, the image will continue to display for the specified time even if the shutter button is released.
- Holding the shutter button down after a shot holds the image in the display regardless of the setting.

## Changing Resolution/Compression Settings

You can change the resolution and compression (excluding movies) settings to suit the purpose of the image you are about to shoot.

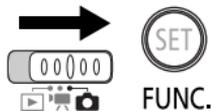
Resolution		Purpose
<b>L</b> (Large) 2272 x 1704 pixels	Large  Small	<ul style="list-style-type: none"> <li>• Print up to A4 size* 210 x 297 mm (8.3 x 11.7 in.) prints</li> <li>• Print up to Letter size* 216 x 279 mm (8.5 x 11 in.) prints</li> </ul>
<b>M1</b> (Medium 1) 1600 x 1200 pixels		<ul style="list-style-type: none"> <li>• Print postcard size 148 x 100 mm (6 x 4 in.) prints</li> <li>• Print L-size 119 x 89 mm (4.7 x 3.5 in.) prints</li> </ul>
<b>M2</b> (Medium 2) 1024 x 768 pixels		<ul style="list-style-type: none"> <li>• Print card size 86 x 54 mm (3.4 x 2.1 in.) prints</li> </ul>
<b>S</b> (Small) 640 x 480 pixels		<ul style="list-style-type: none"> <li>• Send images as e-mail attachments</li> <li>• Shoot more images</li> </ul>

\* Paper sizes vary according to region.

Compression		Purpose
 <b>Superfine</b>	High Quality  Normal	<ul style="list-style-type: none"> <li>• Shoot higher quality images</li> </ul>
 <b>Fine</b>		<ul style="list-style-type: none"> <li>• Shoot normal quality images</li> </ul>
 <b>Normal</b>		<ul style="list-style-type: none"> <li>• Shoot more images</li> </ul>

Movies can be shot with the following resolution.

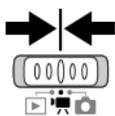
Resolution	
 320	320 x 240 pixels
 160	160 x 120 pixels



### 1 In Shooting Mode

Slide the mode switch to  (Shooting) and select , , , ,  or  from the FUNC. menu.

See *Selecting a Shooting Mode* (p. 53).



## 1 In Movie Mode

Slide the mode switch to  (Movie).



## 2 In the FUNC. menu, select \* and select \* or \* with the MENU button.

See *Selecting Menus and Settings* (p. 45).

\* The current setting is displayed.



## 3 Use the or button to select an option.

### Resolution (Still Images)

Select , ,  or .



### Resolution (Movies)

Select  or .



### Compression (Excluding Movies)

Select ,  or .



You can shoot right after selecting an option. The menu displays again after the shot, allowing you to change the settings easily.



FUNC.

## 4 Press the SET/FUNC. button.

The display will return to the Shooting screen.



- See *Functions Available in Each Shooting Mode* (p. 168).
- See *Image File Sizes (Estimated)* (p. 157).
- See *SD Cards and Estimated Capacities* (p. 156).

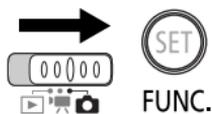
## ⚡ Using the Flash

Use the flash according to the guidelines below.

	<b>Auto</b>	The flash fires automatically as required by the light level.
	<b>Auto with Red-Eye Reduction</b>	The flash fires automatically as required by the lighting level, and the red-eye reduction lamp fires each time the main flash fires.
	<b>Flash On</b>	The flash fires with every shot.
	<b>Flash Off</b>	The flash will not fire.
	<b>Slow Synchro</b>	The flash timing is adjusted to slow shutter speeds. This reduces the chance that the background will be dark when shots are taken at night or in rooms with artificial lighting. The red-eye reduction lamp fires with each shot. Use of a tripod is recommended.

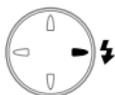
	○	○	–	–	–
	○	○	–	–	–
	–	○	○	–	△
	○	○	○	○	△
	–	○	○	–	△

○ Setting available  
△ Can be selected for the first image only.



**1** Slide the mode switch to (Shooting) and select , , , , or from the FUNC. menu.

See *Selecting a Shooting Mode* (p. 53).



**2** Press the button to switch between flash modes.

The selected flash mode appears on the LCD monitor.





- When you use flash photography at higher ISO speeds, the chances of white streaks appearing in the image increase the closer you approach to the subject.
- Since a slow shutter speed is selected in dark places when the flash is set to Off or Slow Synchro, take care to avoid blurring the image.
  - Shooting in  Mode  
Be careful to hold the camera still to avoid camera shake.
  - Shooting in , ,  or  Mode  
Fix the camera to a tripod to shoot in these modes since the shutter speed will be slower than in the  mode. If an image is dark in  mode, reshooting it in  mode will make it brighter.



- The flash can be fired when the indicator lights a steady orange after pressing the shutter button halfway.
- The flash may take up to approximately 10 seconds to charge. The recharging time will vary with such factors as the shooting conditions and battery charge. Shots cannot be taken while the flash is charging.
- The flash fires twice. The main flash follows a preparatory pre-flash. The exposure reading obtained from the subject with the pre-flash is used to set the optimal flash intensity for the main flash, which is used to capture the image.
- When using the flash for standard photography, be sure to shoot from a distance of at least 30 cm (12 in.) away from your subject.

### Red-Eye Reduction

- Light reflecting back from eyes can make them appear red when the flash is used in dark areas. Under these conditions, use the red-eye reduction mode. For this mode to be effective, the subject must be looking right at the red-eye reduction lamp. Try asking them to look directly at the lamp. Even better results can be obtained by increasing the lighting in indoor settings or approaching closer to the subject.
- The shutter will not activate for approximately 1 second after the red-eye reduction lamp fires in order to improve the effect. If you want a more immediate shutter response, set the flash to ,  or .

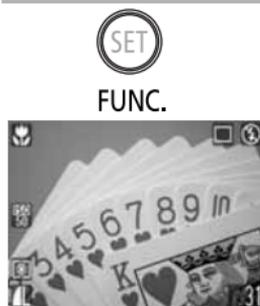
## Shooting Close-Ups

You can shoot with the lens very close to the subject (Macro function). Subjects can be focused in the range of 3 to 10 cm (1.2 to 3.9 in.) from the front of the lens.



**1** Slide the mode switch to (Shooting) and select from the FUNC. menu.

- See *Selecting a Shooting Mode* (p. 53).
- You can shoot right after selecting an option. The menu displays again after the shot, allowing you to change the settings easily.



**2** Press the SET/FUNC. button.

The display will return to the Shooting screen and will appear on the LCD monitor.



Be careful not to bang the lens against the subject when shooting in macro mode.



The recordable area for close-ups is approx. 2.4 to 1.8 cm (0.94 x 0.71 in.).

### Image Comparison



Standard Shooting  
(Shooting distance: 10 cm (3.9 in.))



Macro Shooting  
(Shooting distance: 3 cm (1.2 in.))



Digital Zoom Shooting  
(Approx. 5.7x)

## Continuous Shooting

In this mode, the camera shoots continuously at approximately 1.6 images per second\* (Large/Fine, LCD monitor off) while the shutter button is held down. Recording ceases when the shutter button is released.

\* This figure reflects standard shooting criteria established by Canon. Actual figures may vary according to the subject and shooting conditions.



**1** Slide the mode switch to (Shooting) and select , or from the FUNC. menu.

See *Selecting a Shooting Mode* (p. 53).



**2** Press the button to display .



### To cancel continuous shooting

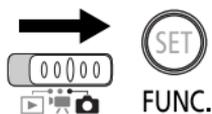
Press the button twice to display .



- The interval between shots may lengthen slightly when the camera's built-in memory fills.
- If the flash is firing, the interval between shots will lengthen to accommodate the flash's charging requirements.

## 🕒 Using the Self-timer

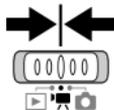
With this function, images are shot 10 or 2 seconds after the shutter button is pressed. This is useful when you want to take a memorable photo with everyone including yourself in the picture. The self-timer can be used in any shooting mode.



### 1 In Shooting Mode

Slide the mode switch to (Shooting) and select , , , , or from the FUNC. menu.

See *Selecting a Shooting Mode* (p. 53).

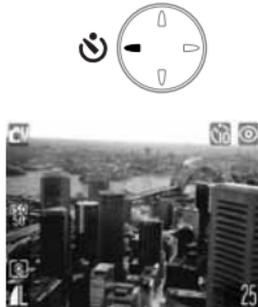


### In Movie Mode

Slide the mode switch to (Movie).

### 2 Press the button to display or .

- When the shutter button is pressed fully, the self-timer will activate and the self-timer lamp will blink.
- When the self-timer is set to ( ), the shutter activates 10 (2) seconds after the shutter button is pressed fully.



### To cancel the self-timer

Press the button to display .

## Changing the Self-timer Countdown Time



- 1** In the  (Rec.) menu, select .
- See *Selecting Menus and Settings* (p. 45).



- 2** Use the  or  button to select  or  and press the **MENU** button.
- The display will return to the Shooting screen.
  - When  is selected, the self-timer sounds and the blinking gets faster 2 seconds before the shutter activates.
  - When  is selected, the self-timer sounds at the same time as the shutter button is pressed. The shutter activates in 2 seconds.



The self-timer sound can be changed with the Selftimer Sound item in the  (My Camera) menu (p. 142).

### Tip for Using the Self-timer

Normally the camera shakes a little when you press the shutter button. Setting the self-timer to  delays the shutter release for 2 seconds and allows the camera to stop shaking, thus preventing a blurred image.

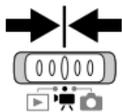
## Shooting in Manual Mode

In this mode, you can change various settings and shoot as you wish.

 <p>→  SET FUNC.</p> 	<p><b>1 Slide the mode switch to  (Shooting) and select  from the FUNC. menu.</b></p> <ul style="list-style-type: none"><li>• See <i>Selecting a Shooting Mode</i> (p. 53).</li><li>• You can shoot right after selecting an option. The menu displays again after the shot, allowing you to change the settings easily.</li></ul>
 <p>SET FUNC.</p>	<p><b>2 Press the SET/FUNC. button.</b></p> <p>The display will return to the Shooting screen.</p>
	<p><b>3 Change the settings.</b></p> <p>See <i>Functions Available in Each Shooting Mode</i> (p. 168).</p>
	<p><b>4 Shoot (p. 53).</b></p> <p>If the subject is difficult to focus on when the shutter button is pressed halfway, the beep will sound one time. The AF frame will also appear yellow. (If the AiAF option is set to [On] (p. 73), the AF frame will not appear.)</p>

## 🎬 Shooting a Movie

The resolution can be set to either **320** (320 x 240) or **160** (160 x 120) (p. 57).



### 1 Slide the mode switch to **🎬 (Movie)**.

The maximum recording time (in seconds) is displayed.



### 2 Press the shutter button fully.

- Shooting and sound recording starts simultaneously.
- During shooting the recording time (in seconds) and a red circle appear on the LCD monitor.



### 3 Press the shutter button fully again to stop recording.

- The maximum length of a movie clip (at approximately 15 frames/sec.) is approximately 3 min. (**320**) or 3 min. (**160**) (according to Canon's standardized tests).
- The maximum length of movies may vary with the subject and shooting conditions. Recording will automatically stop when the maximum is reached or when the SD card runs out of free capacity.



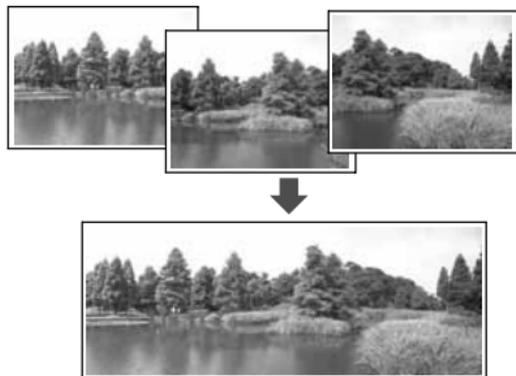
- 
- Although the recording time may not display properly during shooting, the movie will be recorded correctly.
  - Recording may stop unexpectedly with certain types of SD cards (slow-recording cards, cards formatted on a different camera or a computer, or cards which have had images recorded and erased repeatedly).
  - You are recommended to use an SD card that has been formatted in your camera to shoot movies (p. 104). The card supplied with the camera may be used without further formatting.
  - Be careful not to touch the microphone while recording.
  - The AE, AF and white balance settings remain fixed for subsequent frames at the values selected for the first frame.
  - After a clip is shot, the indicator will blink green while the clip is being written to the SD card. You cannot shoot again until the blinking stops.



- 
- See *Functions Available in Each Shooting Mode* (p. 168).
  - Sound is recorded monaurally.
  - There is no shutter sound in movie mode.
  - QuickTime 3.0 or later is required to play back movie files (AVI/ Motion JPEG) on a computer. QuickTime (for Windows) is included on the Canon Digital Camera Solution Disk. On the Macintosh platform, this program is generally bundled with Mac OS 8.5 or later operating systems.

## Shooting Panoramic Images (Stitch Assist)

Stitch Assist can be used to shoot overlapping images that can later be merged (stitched) to create one panoramic image on a computer.



The overlapping seams of several adjacent images can be joined into a single panoramic image.



To merge the images on a computer, use PhotoStitch, one of the supplied programs.

### Framing a Subject

The PhotoStitch program detects the overlapping portions of adjoining images and merges them. When shooting, try to include a distinctive item (landmark) in the overlapping portions.



- Compose each frame so that it overlaps 30 - 50% of the adjoining image. Try to keep the vertical misalignment to less than 10% of the image height.
- Do not include moving items in the overlap.
- Do not try to stitch images that include both distant and close items. These items may appear warped or doubled up in the merged image.
- Make the brightness in each image consistent. The final image will appear unnatural if the contrast in brightness is too great.
- To shoot landscapes, swivel (pan) the camera around its own vertical axis.

- To shoot close-ups, slide the camera over the subject, keeping it parallel to the subject as you move it.

## Shooting

Images can be shot in two sequences in Stitch Assist.

	Left to right horizontally
	Right to left horizontally

	<p><b>1 Slide the mode switch to  (Shooting) and select  or  from the FUNC. menu.</b></p> <ul style="list-style-type: none"> <li>• See <i>Selecting Menus and Settings</i> (p. 45).</li> <li>• You can shoot right after selecting an option. The menu displays again after the shot, allowing you to change the settings easily.</li> </ul>
	<p><b>2 Press the SET/FUNC. button.</b></p> <p>The display will return to the Shooting screen.</p>
	<p><b>3 Shoot the first frame in the sequence.</b></p> <p>The exposure and white balance are set and locked with the first image.</p>



**4 Compose the second image so that it overlaps a portion of the first and shoot.**

- Use the ◀ or ▶ button to check or retake the recorded images.
- Minor discrepancies in the overlapping portions can be corrected when the images are stitched together.



**5 Repeat the procedure for additional images.**

A sequence may contain up to 26 images.



**6 Press the SET/FUNC. button after the last shot.**

The Stitch Assist shooting session ends and the display returns to the **FUNC.** menu.



**FUNC.**

**7 Press the SET/FUNC. button.**

The display will return to the Shooting screen.



- The settings for the first image are used to take subsequent images in the sequence.
- It is not possible to display images on the TV when shooting in Stitch Assist.



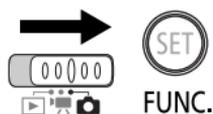
See *Functions Available in Each Shooting Mode* (p. 168).

## Locking the Focus

It may be difficult to focus on the following types of subjects. Use the focus lock in these situations.

- Subjects with extremely low contrast to the surroundings
- Subjects with extremely bright objects at the center of the composition
- Subjects that are moving quickly
- Subjects through glass:

Try to shoot as close to the glass as possible to reduce the chances of light reflecting back off the glass.



- 1** Slide the mode switch to (Shooting) and select , , or from the FUNC. menu.

See *Selecting a Shooting Mode* (p. 53).



- 2** Select from the Rec. menu.

See *Selecting Menus and Settings* (p. 45).



- 3** Use the or button to select [Off] and press the MENU button.

The display will return to the Shooting screen.



	<b>4</b>	<b>Aim the camera so that an object at the same focal distance as the main subject is centered in the AF frame displayed on the LCD monitor.</b>
	<b>5</b>	<b>Press the shutter button halfway and wait until two beeps sound.</b> The focal distance to the object is locked.
	<b>6</b>	<b>Re-aim the camera to compose the shot as desired and press the shutter button fully.</b>

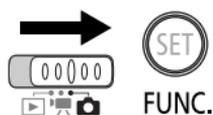
## Focusing

Although the autofocus function is preset to the AiAF setting (5 AF frames), you can set it to the center AF frame.

When [AiAF] is set to [On], the AF frame does not appear. When [AiAF] is set to [Off], however, the AF frame will appear.

No frame	On	The camera detects the subject and highlights the AF frames, from 5 available points, that it will use to determine the focus.
<input type="checkbox"/>	Off	The camera focuses using the center AF frame. This is convenient for focusing on a specific part of a subject with greater certainty.

The  symbol represents the AF frames as they appear in the LCD monitor.



- 1 Slide the mode switch to (Shooting) and select , or from the FUNC. menu.

See *Selecting a Shooting Mode* (p. 53).



- 2 In the (Rec.) menu, select .

See *Selecting Menus and Settings* (p. 45).



- 3 Use the or button to select [On] or [Off].

You can shoot right after selecting an option.



- 4 Press the MENU button.

The display will return to the Shooting screen.



The center AF frame mode is used when the digital zoom is activated.

## Switching between Light Metering Modes

You can switch between metering modes to shoot.

	<b>Evaluative</b>	Appropriate for standard shooting conditions, including backlit scenes. The camera divides images into several zones for light metering. It evaluates complex lighting conditions, such as the position of the subject, the brightness, the direct light, and the backlighting, and adjusts the settings to the correct exposure for the main subject.
	<b>Center-Weighted Average</b>	Averages the light metered from the entire frame, but gives greater weight to the subject matter at the center.
	<b>Spot</b>	Meters the area within the spot AE point at the center of the LCD monitor. Use this setting when you want to set the exposure on the subject in the center of the monitor.



- 1 Slide the mode switch to  (Shooting) and select  or  from the FUNC. menu.**

See *Selecting a Shooting Mode* (p. 53).



- 2 Select  \* from the FUNC. menu.**

See *Selecting Menus and Settings* (p. 45).

\*The current setting is displayed.



- 3 Use the  or  button to switch between metering modes.**

You can shoot right after selecting an option. The menu displays again after the shot, allowing you to change the settings easily.



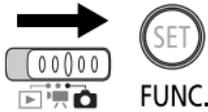
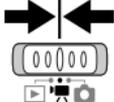
FUNC.

- 4 Press the SET/FUNC. button.**

The display will return to the Shooting screen.

## Adjusting the Exposure Compensation

Adjust the exposure compensation setting to avoid making the subject too dark when it is backlit or shot against a bright background or to avoid making lights appear too bright in night shots.

	<p><b>1 In Shooting Mode</b></p> <p>Slide the mode switch to  (Shooting) and select , ,  or  from the FUNC. menu.</p> <p>See <i>Selecting a Shooting Mode</i> (p. 53).</p>
	<p><b>In Movie Mode</b></p> <p>Slide the mode switch to  (Movie).</p>
	<p><b>2 In the FUNC. menu, select <math>\pm 0</math> *.</b></p> <p>See <i>Selecting Menus and Settings</i> (p. 45).</p> <p>* The current setting is displayed.</p>
	<p><b>3 Use the <math>\leftarrow</math> or <math>\rightarrow</math> button to adjust the exposure compensation.</b></p> <ul style="list-style-type: none"><li>• The settings can be adjusted in 1/3 stops in the range -2 to +2.</li><li>• You can confirm the effect of the setting in the LCD monitor.</li><li>• You can shoot right after selecting an option. The menu displays again after the shot, allowing you to change the settings easily.</li></ul>
	<p><b>4 Press the SET/FUNC. button.</b></p> <p>The display will return to the Shooting screen.</p>

### To reset the exposure compensation

Return the setting to 0.

## Using the Exposure Compensation

This camera automatically adjusts the exposure to shoot images with the optimal brightness. However, recorded images may sometimes be brighter or darker than the actual image depending on the shooting conditions. If this happens, adjust the exposure compensation manually.



### Underexposure

The whole recorded image is dark, which makes white elements of the image appear gray. Shooting bright subjects or in backlit conditions may cause the image to be underexposed. Adjust the exposure compensation towards the + end.



### Optimal Exposure

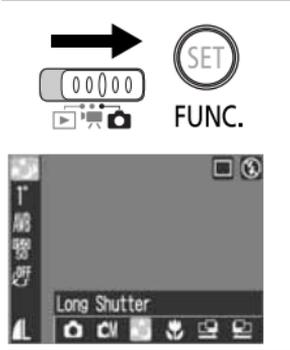
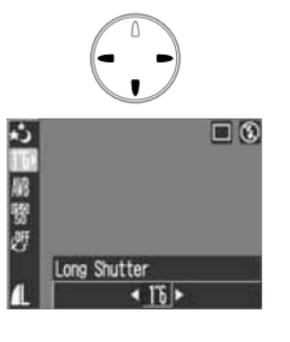


### Overexposure

The whole recorded image is bright, which makes black elements of the image appear gray. Shooting dark subjects or in dark places may cause the image to be overexposed. Adjust the exposure compensation towards the - end.

## Shooting in Long Shutter Mode

You can set the shutter speed to a slow setting to make dark subjects appear brighter.

	<p><b>1</b> Slide the mode switch to  (Shooting) and select  from the FUNC. menu.</p> <p>See <i>Selecting a Shooting Mode</i> (p. 53).</p>
	<p><b>2</b> Press the  button and use the  or  button to select a shutter speed.</p> <ul style="list-style-type: none"><li>• The higher the value, the brighter the image and the lower the value, the darker the image.</li><li>• You can shoot right after selecting a value. The menu displays again after the shot, allowing you to change the settings easily.</li></ul>
	<p><b>3</b> Press the SET/FUNC. button.</p> <p>The display will return to the Shooting screen.</p>



---

The nature of CCD image sensors is such that noise in the recorded image increases at long shutter speeds. This camera, however, applies special processing to images shot at shutter speeds slower than 1.3 seconds to eliminate the noise, thereby producing high-quality images. Nevertheless, a certain amount of processing time may be required before the next image can be shot.



- 
- Please note that camera shake becomes a factor at low shutter speeds. If the camera shake warning  appears on the LCD monitor, secure the camera to a tripod before shooting.
  - Use of the flash may result in an over-exposed image. If that occurs, shoot with the flash set to .

### **Available Shutter Speeds**

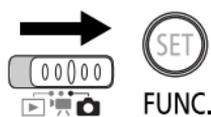
The following shutter speeds (in seconds) are available.

1 1.3 1.6 2 2.5 3.2 4 5 6 8 10 13 15

## Adjusting the Tone (White Balance)

When the white balance mode is set to match the light source, the camera reproduces colors more accurately.

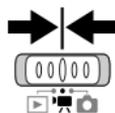
	<b>Auto</b>	The camera sets the white balance automatically according to shooting conditions.
	<b>Daylight</b>	For recording outdoors on a bright day.
	<b>Cloudy</b>	For recording under overcast, shady or twilight skies.
	<b>Tungsten</b>	For recording under tungsten and bulb-type 3-wavelength fluorescent lighting.
	<b>Fluorescent</b>	For recording under warm-white, cool-white or warm-white (3-wavelength) fluorescent lighting.
	<b>Fluorescent H</b>	For recording under daylight fluorescent, or daylight fluorescent-type 3-wavelength fluorescent lighting.



### 1 In Shooting Mode

Slide the mode switch to  (Shooting) and select , , ,  or  from the FUNC. menu.

See *Selecting a Shooting Mode* (p. 53).



### In Movie Mode

Slide the mode switch to  (Movie).



### 2 In the FUNC. menu, select \*.

See *Selecting Menus and Settings* (p. 45).

\* The current setting is displayed.



### 3 Use the ◀ or ▶ button to select an option.

- You can confirm the effect of the setting in the LCD monitor.
- You can shoot right after selecting an option. The menu displays again after the shot, allowing you to change the settings easily.



FUNC.

### 4 Press the SET/FUNC. button.

The display will return to the Shooting screen.

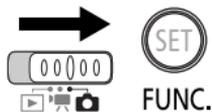


This setting cannot be adjusted when the  (Sepia) or  (B/W) photo effects are selected.

## Changing the Photo Effect

By setting a photo effect before you shoot, you can change the look and feel of the pictures you take.

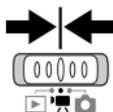
	<b>Photo Effect Off</b>	Records with no effect.
	<b>Vivid</b>	Emphasizes the contrast and color saturation to record bold colors.
	<b>Neutral</b>	Tones down the contrast and color saturation to record neutral hues.
	<b>Low Sharpening</b>	Records subjects with softened outlines.
	<b>Sepia</b>	Records in sepia tones.
	<b>B/W</b>	Records in black and white.



### 1 In Shooting Mode

Slide the mode switch to  (Shooting) and select , , ,  or  from the FUNC. menu.

See *Selecting a Shooting Mode* (p. 53).



### In Movie Mode

Slide the mode switch to  (Movie).



### 2 In the FUNC. menu, select \*.

See *Selecting Menus and Settings* (p. 45).

\* The current setting is displayed.



---

**3 Use the ◀ or ▶ button to select an effect.**

- You can confirm the photo effect in the LCD monitor.
- You can shoot right after selecting an option. The menu displays again after the shot, allowing you to change the settings easily.



FUNC.

---

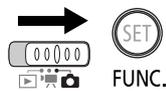
**4 Press the SET/FUNC. button.**

The display will return to the Shooting screen.

---

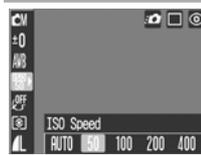
## Adjusting the ISO Speed

Raise the ISO speed when you wish to reduce camera shake or turn the flash off when shooting in a dark area, or use a fast shutter speed.



**1** Slide the mode switch to (Shooting) and select , , or from the FUNC. menu.

See *Selecting a Shooting Mode* (p. 53).



**2** In the FUNC. menu, select \*.

See *Selecting Menus and Settings* (p. 45).

\* The current setting is displayed.



**3** Use the or button to select a speed.

You can shoot right after selecting an option. The menu displays again after the shot, allowing you to change the settings easily.



**4** Press the SET/FUNC. button.

The display will return to the Shooting screen.



- Higher ISO speeds increase image noise. To take clean images, use as low an ISO speed as possible.
- The AUTO setting selects the optimal speed. It will automatically raise the speed when the light from the flash is insufficient to illuminate the subject matter.

## ISO Speed

The ISO speed is the numeric representation of the camera's sensitivity to light. The higher the ISO speed, the higher the sensitivity. A high ISO speed allows you to shoot images in dark indoor or outdoor conditions without a flash and also helps prevent blurred images due to camera shake. This is convenient when shooting images in places where flash photography is prohibited. The ISO speed setting makes full use of the available light, resulting in images that convey the feel of the place they were shot.



ISO 50 equivalent

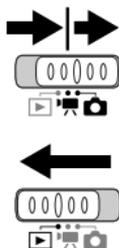


ISO 400 equivalent

## Resetting the File Number

The images you shoot are automatically assigned a file number. You can set whether or not the file numbers of a new SD card consecutively follow the file numbers on the previous SD card.

On	The file number is reset to the start (100-0001) each time a new SD card is inserted. New images recorded on SD cards with existing files are assigned the next available number.
Off	The file number of the last image to be shot is memorized so that images recorded to a new SD card start from the next number.



- 1 Slide the mode switch to  (Shooting),  (Movie) or  (Playback).



- 2 In the  (Set up) menu, select . See *Selecting Menus and Settings* (p. 45).



- 3 Use the  or  button to select [On] or [Off] and press the MENU button.

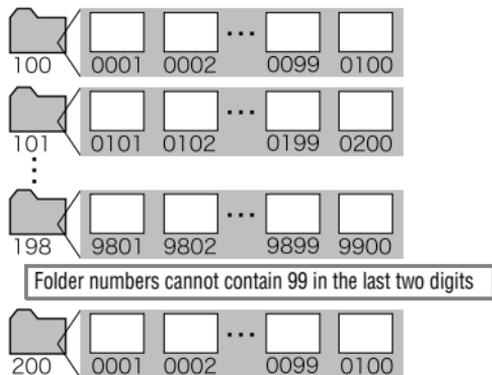
The display will return to the Shooting screen.



Setting the File No. Reset to [Off] is useful for avoiding file name duplication when images are downloaded to a computer.

### About File Numbers and Folder Numbers

Images are assigned file numbers from 0001 to 9900, and folders are assigned folder numbers from 100 to 998 (Folder numbers cannot contain 99 in the last two digits).



### Folder File Capacity

Each folder usually contains up to 100 images.

However, since images shot in continuous shooting and stitch assist are always saved into the same folder, a folder may contain more than 100 images. The number of images may also exceed 100 if a folder contains images copied from a computer or images shot with other cameras. Please note, however, that the images in folders containing 2001 or more images cannot be played back in this camera.

## Displaying Images Individually



### 1 Slide the mode switch to (Playback).

The last recorded image will appear in the display (single image playback).

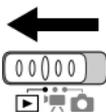


### 2 Use the or button to move between the images.

Use the  button to move to the previous image and the  button to move the next image.

Holding the button down advances the images more rapidly, but the images will not appear as clearly.

## Magnifying Images



**1** Slide the mode switch to  (Playback).



**2** Press the  button.

  appears on the monitor, indicating you can further magnify the image (up to approx. 10 times) by holding down the  button.



**3** Press the **SET** button.

  appears on the monitor, indicating you can scroll the magnified image using the , ,  or  button to move around the image.



Approximate Location  
of the Magnified Area

### To cancel the magnified display

Hold the **SET** button down to return to the standard display.



Movie frames and index playback images cannot be magnified.

## Viewing Images in Sets of Nine (Index Playback)



**1** Slide the mode switch to  (Playback).



Selected Image



Movie

**2** Hold down the SET button.  
Nine images appear at a time.



**3** Use the , ,  or  button to change the image selection.

**To return to single image playback**

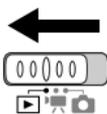
Hold down the SET button.

## Viewing Movies

You can playback movie clips shot in  mode.



Movies cannot be played in the index playback mode.



**1** Slide the mode switch to  (Playback).



**2** Use the  or  button to select a movie.

Images with a **SET**  icon are movies.



**3** Press the SET button.

- The movie control panel will display.
- Use the  or  button to adjust the sound volume.



Movie Control Panel

Volume Level



**4** Use the ◀ or ▶ button to select **▶ (Play)** and press the **SET** button.

- The movie and sound will play.
- When playback ends, the movie stops at the last frame displayed. Press the **SET** button to display the movie control panel. Press the **SET** button again to play from the beginning.

## Pausing and Resuming Play



Press the **SET** button during playback.

The movie playback pauses. Press it again to resume.

## Operating the movie control panel



### 1 Select a movie and press the SET button (p. 90).

The movie control panel will display.



### 2 Use the ◀ or ▶ button to select one of the following and press the SET button.



: Exit (Ends playback and returns to single image playback. Pressing the **Menu** button also returns to single image playback.)

: Play

: First Frame

: Previous Frame (Rewinds if the **SET** button is held down)

: Next Frame (Fast Forwards if the **SET** button is held down)

: Last Frame

: Edit (Switches to movie editing mode) (p. 93)



- You may experience frame dropping and audio breakup when playing back a movie on a computer with insufficient system resources.
- Movies shot with other cameras may not play back on this camera. See *List of Messages* (p. 145).



- You can adjust the playback volume of movie clips in the (Set up) menu.
- Use the television's controls to adjust the volume when playing a movie on a TV set (p. 122).

## Editing Movies

Selecting  (Edit) in the movie control panel enables you to cut unwanted portions at the start or end of a movie clip.



Protected movies and movies less than 1 second in duration cannot be edited.

	<b>1</b> Slide the mode switch to  (Playback).
	<b>2</b> Use the  or  button to select a movie and press the SET button.
<p>Movie Editing Panel</p> <p>Movie Editing Bar</p>	<b>3</b> Switch to the movie editing mode. <ul style="list-style-type: none"><li>• See <i>Operating the movie control panel</i> (p. 92).</li><li>• The movie editing panel and the movie editing bar will display.</li></ul>
	<b>4</b> Use the  or  button to select  or  and the  or  button to set the portion to which the cut is applied.  : Cut Beginning  : Cut End  : Cursor



## 5 Use the button to select **(Play)** and press the **SET** button.

- A preview of the temporarily edited movie clip plays.
- To stop it, press the **SET** button again.



## 6 Use the button to select **(Save)** and press the **SET** button.

Selecting  cancels the edits and returns to the movie control panel display.



## 7 Use the or button to select **[New File]** or **[Overwrite]** and press the **SET** button.

- [New File] saves the edited movie under a new file name. The pre-edit data is left unchanged.
- [Overwrite] saves the edited movie with its original file name. The pre-edit data is lost.
- When the SD card lacks sufficient space to create a new file, only [Overwrite] can be selected. A small  symbol will appear in the time display on the movie in that case.



- The minimum duration of an edited movie is 1 second.
- It may take approximately 3 minutes to save an edited movie. If the battery pack runs out of charge partway through, edited movie clips cannot be saved. When editing movies, use a fully charged battery pack (p. 20).

## Rotating Images in the Display

Images can be rotated clockwise 90° or 270° in the display.



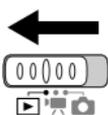
0° (Original)



90°



270°



- 1 Slide the mode switch to  (Playback).



- 2 In the  (Play) menu, select  and press the SET button.

See *Selecting Menus and Settings* (p. 45).



- 3 Use the  or  button to select the image to be rotated and press the SET button.

Cycle through the 90°/270°/0° orientations with each press of the SET button.



- 4 Press the MENU button.

The display will return to the Play menu. Pressing the MENU button again returns to the Playback screen.





- 
- Movies cannot be rotated.
  - When images are downloaded to a computer, the orientation of images rotated by the camera will depend upon the software used to download the images.

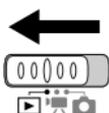


---

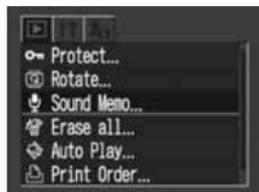
Images can be magnified when rotated (p. 88).

## Attaching Sound Memos to Images

In playback mode (including single image playback, index playback, and magnifying playback), you can attach sound memos (up to 60 seconds) to an image. The sound data is saved in WAVE format.



- 1** Slide the mode switch to  (Playback).



- 2** In the  (Play) menu, select  and press the SET button.

See *Selecting Menus and Settings* (p. 45).



- 3** Use the  or  button to select an image and press the SET button.

The sound memo control panel will display.



- 4** Use the  or  button to select  and press the SET button.

- The recording starts and the elapsed time is displayed. Speak towards the microphone of the camera.
- Press the **SET** button again to stop recording. To resume recording, press the **SET** button again.
- Up to 60 seconds of recordings may be added to any one image.



Sound Memo Panel



## Exiting the Sound Memos

Press the **MENU** button.

## Playing/Erasing Sound Memos



### 1 Display an image with a sound memo attached (p. 97) and press the **SET** button.

- Images with sound memos attached have a  symbol displayed on them.
- The sound memo control panel will display.



Sound Memo Panel



### 2 Use the or button to select or and press the **SET** button.

#### (Play)

- The sound memo will play. Playback will stop when you press the **SET** button. Press the **SET** button again to resume playback.
- Use the  or  button to adjust the sound volume.

#### (Erase)

A confirmation menu will display. Use the  or  button to select [Erase] and press the **SET** button.

To return the playback to the beginning, select  (Pause) while stopped and press the **SET** button.



- 
- You cannot attach sound memos to movies.
  - The “Memory card full” message will display when the SD card is full and you will be unable to record sound memos to that card.
  - If an incompatible sound memo is attached to an image, you will be unable to record or play sound memos for that image, and the “Incompatible WAVE format” message will display. You can erase incompatible sound data using the camera.
  - Sound memos for protected images cannot be erased.

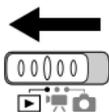


---

The volume can be adjusted in the  (Set up) menu (p. 136).

## Auto Play

Use this feature to automatically playback all of the images in the SD card. The LCD monitor displays each image for approximately 3 seconds.



**1** Slide the mode switch to  (Playback).



**2** In the  (Play) menu, select  and press the SET button.

- See *Selecting Menus and Settings* (p. 45).
- Once you have selected it, Auto Play starts.
- As with the single image playback mode, pressing the ◀ or ▶ button during auto play will advance through the images more rapidly.

### Pausing/Resuming Auto Play



**Press the SET button.**

Auto Play pauses. Press the SET button again to restart it.

### Stopping Auto Play



**Press the MENU button.**

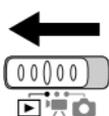
Auto Play stops.



- The display interval may vary for some images.
- Movie images play for the length of time that they were recorded.
- The power saving function is disabled during Auto Play (p. 33).

## Protecting Images

You can protect important images from accidental erasure.



**1** Slide the mode switch to  (Playback).



**2** In the  (Play) menu, select  and press the SET button.

See *Selecting Menus and Settings* (p. 45).



**3** Use the  or  button to select an image to protect and press the SET button.



Protection Icon

- The  icon appears on protected images.
- You can make the selection of images easier by toggling between single image playback and index playback by holding down the SET button.



**4** Press the MENU button.

The Play menu displays again. Press it again to return to the Playback screen.



### To cancel protection

After step 2, select an image to remove protection from and press the SET button.



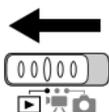
Please note that formatting (initializing) an SD card erases all data, including protected images (p. 104).

## Erasing Single Images

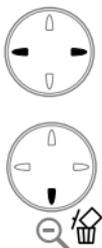
You can erase images you do not need or are not satisfied with one by one.



- Please note that erased images cannot be recovered. Exercise adequate caution before erasing a file.
- Protected images cannot be erased with this function.



**1** Slide the mode switch to  (Playback).



**2** Use the  or  button to select an image for deletion and press the  button.



**3** Use the  or  button to select [Erase] and press the SET button.

To exit instead of erasing, select [Cancel].

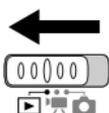


## Erasing All Images

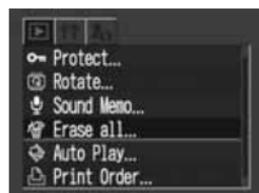
You can erase all the images saved on the SD card.



- Please note that erased images cannot be recovered. Exercise adequate caution before erasing a file.
- Protected images cannot be erased with this function.



**1** Slide the mode switch to  (Playback).



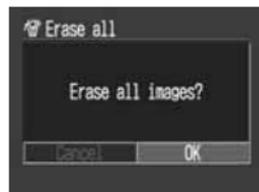
**2** In the  (Play) menu, select  and press the SET button.

See *Selecting Menus and Settings* (p. 45).



**3** Use the  or  button to select [OK] and press the SET button.

To exit instead of erasing, select [Cancel].

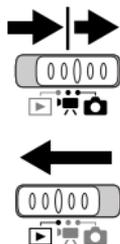


## Formatting SD Cards

You should always format a new SD card or one from which you wish to erase all images and other data.



Please note that formatting (initializing) an SD card erases all data, including protected images and other file types.



**1** Slide the mode switch to  (Shooting),  (Movie) or  (Playback).



**2** In the  (Set up) menu, select  and press the SET button.

See *Selecting Menus and Settings* (p. 45).



**3** Use the  or  button to select [OK] and press the SET button.

- To exit instead of formatting, select [Cancel].
- The capacity of the SD card displayed after formatting will be less than the rated capacity of the SD card. This is not a malfunction of the SD card or camera.



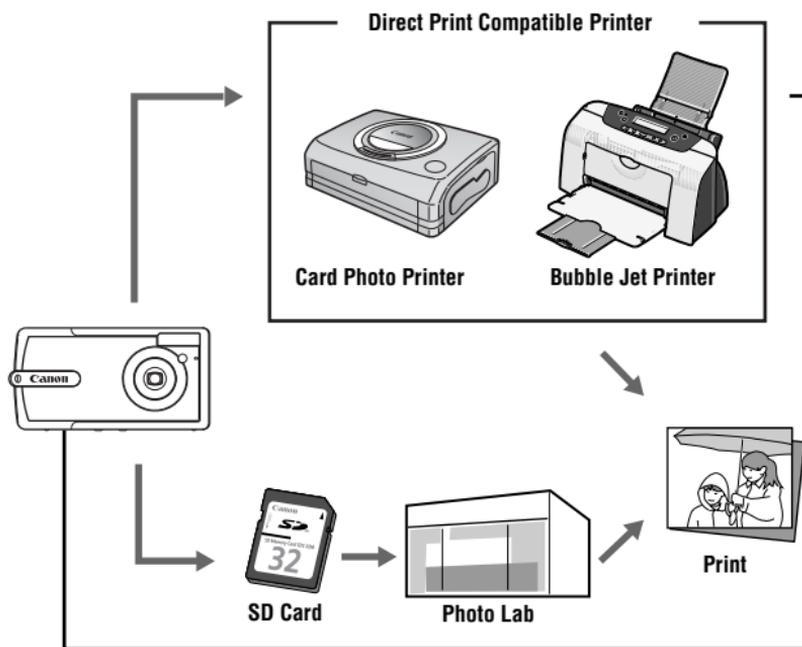
- When the camera is malfunctioning, a corrupted SD card might be the cause. Reformatting the SD card may solve the problem.
- When a non-Canon brand SD card is malfunctioning, reformatting it may solve the problem.
- SD cards formatted in other cameras, computers, or peripheral devices may not operate correctly in this camera. When that happens, reformat the SD card with this camera. If formatting in the camera does not work properly, turn the camera off and re-insert the SD card. Then turn the camera back on and format again.

## About Printing

You can easily print images stored in the SD card by connecting the camera to a direct print compatible printer\*<sup>1</sup> with a cable and operating the camera buttons. In addition, you can specify the images on your SD card you want to print and how many copies you want (DPOF\*<sup>2</sup> Print Settings), and then take the SD card to a participating photo lab to have them printed out later.

\* <sup>1</sup> The  icon appears for *Canon Direct Print* compatible CP series printers.

\* <sup>2</sup> Digital Print Order Format



Please refer to the *System Map* supplied with your camera for direct print compatible printer (CP series or Bubble Jet printers) information.

#### Direct Print Compatible Printing

- Connect the camera to the printer
- Set various print settings (except DPOF print settings)
- Print

For details, see the *Direct Print User Guide*.

#### DPOF Print Settings

- See *Selecting Images for Printing* (p. 108).  
▼
- Set the number of print copies (pp. 109, 110)  
▼
- See *Setting the Print Style* (p. 111).
  - Standard/Index/Both
  - Date: On/Off
  - File Numbers: On/Off

For details, see the *Direct Print User Guide*.

#### DPOF Transfer Order

- Select the images to download to a computer (p. 114)

## Setting the DPOF Print Settings

You can select images on an SD card for printing and specify the number of print copies in advance using the camera. This is extremely convenient for sending the images to a photo developing service, or for printing on a *Canon Direct Print* compatible CP printer or Bubble Jet printer, or on a *PictBridge* compliant printer.

See the *Direct Print User Guide* for instructions on how to select print settings from the printer.

### Selecting Images for Printing

There are two ways to select images.

- Singly
- All images on an SD card (the number of print copies is set to one per image)

#### Single Images



**1** In the  (Play) menu, select  and press the SET button.

See *Selecting Menus and Settings* (p. 45).



**2** Use the , ,  or  button to select [Order] and press the SET button.





Number of Print Copies



Selected for an Index Print



### 3 Select images for printing.

As shown below, selection methods differ according to the options chosen for the  (Print Type) settings (p. 111).

#### (Standard)/ (Both)

Use the  or  button to select an image, press the **SET** button and use the  or  button to select the number of print copies (up to maximum of 99).

#### (Index)

Use the  or  button to move to an image and the **SET** button to select or deselect it.

A checkmark displays on selected images.

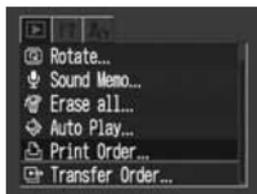
You can hold down the **SET** button to switch to the index mode (3 images) and use the same procedures to select images.

### 4 Press the MENU button.

The Print Order menu will reappear. Pressing the **MENU** button again returns to the Play menu. Press it again to go back to the Playback screen.



## All the Images on an SD Card



### 1 In the (Play) menu, select and press the SET button.

See *Selecting Menus and Settings* (p. 45).



**2** Use the **▲**, **▼**, **◀** or **▶** button to select **[Mark All]** and press the **SET** button.



**3** Use the **◀** or **▶** button to select **[OK]** and press the **SET** button.

The display returns to the Print Order (DPOF) menu.



**4** Press the **MENU** button.

The display returns to the Play menu. Press the **MENU** button again to go back to the Playback screen.



- The **▲** symbol will display on images that have had print settings set by other DPOF-compliant cameras. These settings will be overwritten by those set by your camera.
- The output of some printers or photo developing services may not reflect the specified print settings.
- Print settings cannot be set for movie images.



- Images are printed in order from oldest to newest by the shooting date.
- A maximum of 998 images can be selected per SD card.
- When [Both] is selected, the number of print copies can be set, but it applies to Standard prints only. The Index setting only produces one print copy.
- Print settings can also be assigned to images with the bundled software on a computer.

## Setting the Print Style

Set the print style after selecting the image to print. The following print settings can be selected.

 <b>Print Type</b>	<input checked="" type="checkbox"/> Standard	Prints one image per page.
	<input type="checkbox"/> Index	Prints the selected images together at a reduced size in an index format.
	<input type="checkbox"/>  Both	Prints the images in both the standard and index formats.
<input checked="" type="checkbox"/> <b>Date</b>	Adds the date to the print.	
 <b>File No.</b>	Adds the file number to the print.	



**1** In the  (Play) menu, select  and press the SET button.

See *Selecting Menus and Settings* (p. 45).



- 2** Use the **▲**, **▼**, **◀** or **▶** button to select [Set up] and press the SET button.



- 3** Use the **▲** or **▼** button to select ,  or  and the **◀** or **▶** button to select an option.

 **(Print Type)**

Select [Standard], [Index] or [Both].

 **(Date)**

Select [On] or [Off].

 **(File No.)**

Select [On] or [Off].



- 4** Press the MENU button.

The Print Order menu will reappear. Pressing the **MENU** button again returns to the Play menu. Press it again to go back to the Playback screen.



The date prints in the format specified in the Date/Time menu (p. 28).



When the print type is set to [Index], only one or the other of the [Date] and [File No.] options can be set to [On] at the same time.

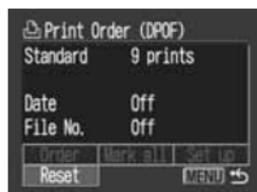
## Resetting the Print Settings

The print settings can all be removed at once. The print type resets to Standard and the Date and File No. options to Off.

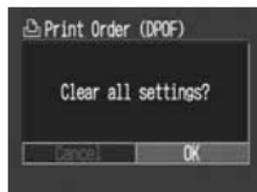


- 1** In the  (Play) menu, select  and press the SET button.

See *Selecting Menus and Settings* (p. 45).



- 2** Use the , ,  or  button to select [Reset] and press the SET button.



- 3** Use the  or  button to select [OK] and press the SET button.

To exit without resetting, select [Cancel].

## Image Transmission Settings (DPOF Transfer Order)

You can use the camera to specify settings for images before downloading to a computer.

The settings used on the camera comply with the Digital Print Order Format (DPOF) standards.



The  symbol will display on images that have had transmission settings set by other DPOF-compliant cameras. These settings will be overwritten by those set by your camera.

## Selecting Images for Transferring

There are two ways to select images.

- Singly
- All images on an SD card

### Single Images

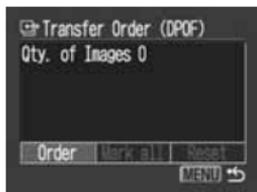


- 1** In the  (Play) menu, select  and press the SET button.

See *Selecting Menus and Settings* (p. 45).



- 2** Use the  or  button to select [Order] and press the SET button.





Selected for Transfer



### 3 Use the ◀ or ▶ button to move between images and the SET button to select and deselect them.

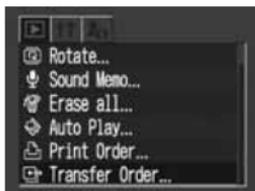
- A checkmark displays on selected images.
- You can hold down the **SET** button to switch to the index mode (3 images) and use the same procedures to select images.



### 4 Press the MENU button.

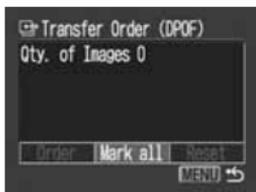
The Transfer Order menu reappears. Pressing the **MENU** button again returns to the Play menu. Press it again to go back to the Playback screen.

## All the Images on an SD Card



### 1 In the ▶ (Play) menu, select and press the SET button.

See *Selecting Menus and Settings* (p. 45).



**2** Use the ◀ or ▶ button to select **[Mark All]** and press the **SET** button.



**3** Use the ◀ or ▶ button to select **[OK]** and press the **SET** button.

The display returns to the Transfer Order (DPOF) menu.



**4** Press the **MENU** button.

The display returns to the Play menu. Press the **MENU** button again to go back to the Playback screen.



- Images are transferred in order from oldest to newest by the shooting date.
- A maximum of 998 images can be selected per SD card.

## Resetting the Image Transfer Settings

You can cancel the image transfer settings



- 1** In the  (Play) menu, select  and press the SET button.

See *Selecting Menus and Settings* (p. 45).



- 2** Use the  or  button to select [Reset] and press the SET button.



- 3** Use the  or  button to select [OK] and press the SET button.

To exit without resetting, select [Cancel].

## Connecting the Camera to a Computer/TV

Download images taken with the camera to a computer in one of the following ways:

- **Connect the camera to a computer with the USB cable**

You can then download images directly from the camera to a computer.

- **Directly from the SD card**

Using a card adapter or a card reader, you can download images directly from the SD card.

## Connecting the Camera to a Computer via the USB cable

After the software is installed, you can use it to easily download images and print them or send them by email.

### IMPORTANT

**You must install the software and driver bundled on the supplied Canon Digital Camera Solution Disk onto your computer if you are using any of the following operation systems:**

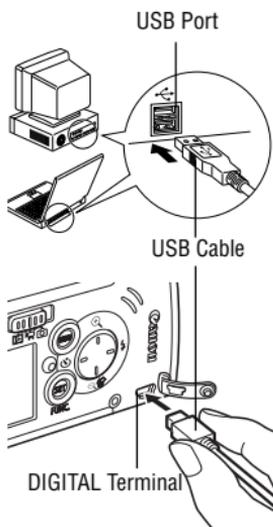
**Windows 98 (including Second Edition)/Windows 2000/Windows Me/  
Mac OS 9.0 - 9.2)**



The camera will not operate correctly if you connect it to your computer before installing the driver and software. If this happens, please refer to the *Troubleshooting* section of the *Software Starter Guide*.

### **1** Install the driver and the software applications bundled on the Canon Digital Camera Solution Disk.

Please see the *Software Starter Guide* for information on system requirements and installation instructions.

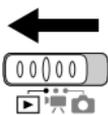


## 2 Connect the supplied USB interface cable to the computer's USB port and the camera's DIGITAL terminal.

To connect to the DIGITAL terminal of the camera, slip your fingernail under the edge of the terminal cover to open it, then insert the connector until you hear it click into place.



- You do not need to turn off the computer or camera when making a USB connection.
- Please refer to your computer's manual for information regarding the location of the USB port.



## 3 Slide the mode switch to (Playback).



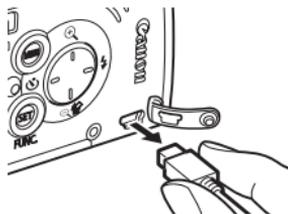
## 4 Press the ON/OFF button.

The LCD monitor will turn on in playback mode and then blank out when the connection to the computer is complete.

Please refer to the *Software Starter Guide* for the subsequent procedures.



Ensure that you grip the connector's sides when you detach the cable from the camera's DIGITAL terminal.



## **Downloading Images without Installing the Software (Windows XP and Mac OS X (v10.1/v10.2) only)**

If you are using the Windows XP or Mac OS X (v10.1/v10.2), you can use the software distributed with these operating systems to download images (JPEG format only) without installing the software bundled on the Canon Digital Camera Solution Disk. This is useful for downloading images to a computer in which the software is not installed.

However, please note that there are certain limitations to downloading with this method. For more details, please refer to the supplied *For Windows XP and Mac OS X Users* leaflet.

**1** **Connect the supplied USB interface cable to the computer's USB port and the camera's DIGITAL terminal (p.119, step 2).**

**2** **Follow the onscreen instructions to download the images.**



- It is recommended to power the camera using a fully charged battery pack (p. 20).
- All procedures performed with a connection to a USB 2.0 compliant board are not guaranteed.

## Downloading Directly from an SD Card

### **1 Eject the SD card from the camera and insert it into an SD card reader connected to the computer.**

Refer to your card adapter's or card reader's manual for information regarding the connection between the computer and card adapter or card reader.

### **2 Double-click the icon of the drive containing the SD card.**

Depending on the operating system, the drive containing the SD card may display automatically.

### **3 Copy the SD card's images to the desired folder on the hard disk.**

The images are contained in the [xxxCANON] folder, which is a subfolder of the [DCIM] folder on the SD card. The xxx represents a number from 100 to 998 (p. 86).

## Viewing Images on a TV set

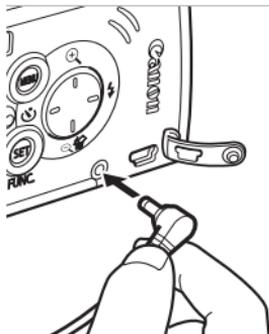
You can use a video-compatible television as a monitor to shoot or play back images when it is connected to the camera with the supplied AV Cable AVC-DC100.

ON/OFF



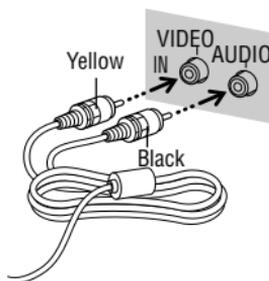
- 1 Press the ON/OFF button to turn the camera off.**

Also turn the television off.



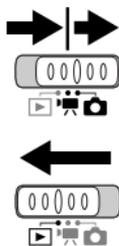
- 2 Connect the AV cable to the camera's A/V OUT terminal.**

Slip your fingernail under the edge of the terminal cover to open it and insert the cable securely.



- 3 Plug the other ends of the AV cable to the VIDEO IN and AUDIO IN jacks on the TV.**

- 4 Turn on the TV and switch it to Video mode.**



**5** Slide the mode switch to (Shooting), (Movie) or (Playback).



**6** Press the ON/OFF button.

The image will appear on the TV. Shoot or play back images as usual.



- A TV set cannot be used in or (stitch assist).
- No image will appear on the LCD monitor when the camera is connected to a TV.
- If the TV is a stereo model, you can plug the audio plug into either the left or right Audio In jack. Please refer to the TV's manual for details.



The video output signal can be switched (NTSC or PAL) to accommodate different regional standards (p. 140). The default setting varies between regions.

- NTSC: Japan, U.S.A., Canada, Taiwan, etc.
- PAL: Europe, Asia (excluding Taiwan), Oceania, etc.

If the video system is set incorrectly, the camera output may not display properly.

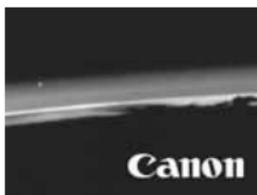
## Customizing the Camera (My Camera Settings)

My Camera allows you to customize the start-up image and start-up, shutter, operation and self-timer sounds. Each menu item has three choices.

Example: Start-up Image



1



2



3

The **2** option features science fiction related images and sounds. The **3** option features animals.

## Changing My Camera Settings



- 1 Select the **My Camera** menu.  
See *Selecting Menus and Settings* (p. 45).



- 2 Use the **▲** or **▼** button to select an item.



- 3 Use the **◀** or **▶** button to select an option.





## 4 Press the MENU button.

- The menu will close.
- In Shooting mode, the menu can be closed by pressing the shutter button halfway.

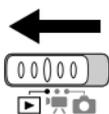


- If you select  (Theme) in Step 2, you can select a consistent theme for each of the My Camera settings.
- If the [Mute] option in the  (Set up) menu is set to [On], the beep will not sound even if each sound item is individually set to ,  or  (On) in the My Camera menu (p. 143).

## Registering My Camera Settings

Images recorded onto the SD card and newly recorded sounds can be added as My Camera settings to the **[2]** and **[3]** menu items. You can also use the supplied software to upload your computer's images and sounds to the camera.

### Registering SD Card Images and Sounds



- 1** Slide the mode switch to  (Playback).



- 2** Select the  (My Camera) menu.  
See *Selecting Menus and Settings* (p. 45).



- 3** Use the  or  button to select an item.

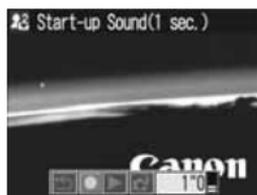


- 4** Use the  or  button to select **[2]** or **[3]**.

The **SET**  icon will display.



- 5** Press the SET button.



## 6 Select an image or record a sound.

### Start-up Image

Use the ◀ or ▶ button to select the image you wish to register and press the **SET** button.

### Start-up, Operation, Self-timer and Shutter Sounds

- Use the ◀ or ▶ button to select  and press the **SET** button. Recording will start and automatically stop when the time is exceeded.
- After recording, use the ◀ or ▶ button to select  and press the **SET** button.
- Select  to return to the My Camera Menu without registering.
- Select  to play the recorded sound.



## 7 Use the ◀ or ▶ button to select [OK] and press the SET button.

To cancel the change, select [Cancel].



- Sounds recorded with the movie and sound memo functions cannot be added as My Camera settings.
- The prior setting is erased when a new My Camera setting is added.

## File Format of My Camera Settings

My Camera settings should conform to the below file formats. However, SD card images shot with this camera can be registered as My Camera settings regardless of the below formats.

### Start-up Image

- Recording Format: JPEG (Baseline JPEG)
- Sampling Rate: 4:2:0 or 4:2:2
- Dimensions: 320 x 240 pixels
- File Size: 20 KB or less

### Start-up, Operation, Self-timer and Shutter Sounds

- Recording format: WAVE (monaural)
- Quantization Bits: 8 bit
- Sampling Frequency: 11.025 kHz or 8.000 kHz
- Recorded Length

	11.025 kHz	8.000 kHz
 Start-up Sound	1.0 sec. or less	1.3 sec. or less
 Operation Sound	0.3 sec. or less	0.4 sec. or less
 Selftimer Sound	2.0 sec. or less	2.0 sec. or less
 Shutter Sound	0.3 sec. or less	0.4 sec. or less

\* Any file formats other than those described above cannot be used with this camera.

An example of this function is to record “Say Cheese” as a self-timer sound so that the camera will replay this sound 2 seconds before the photo is taken. You could also record cheerful music to bring out the natural smiles of your subjects, or so they can strike a pose fitting the music. In these ways you can customize your camera by creating and adding new My Camera settings.



See the supplied *Software Starter Guide* for more information on creating and adding to the My Camera files.

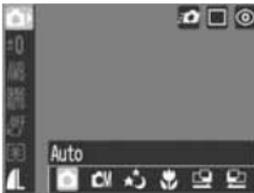
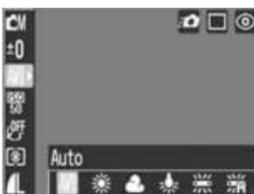


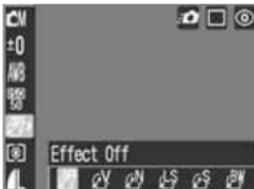
## Menus and Messages Lists

The following charts list the various menu contents. See *Selecting Menus and Settings* (p. 45) to learn how to select a setting.

### FUNC. Menu

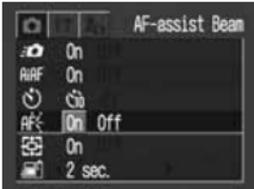
\*Default setting

Item/Menu Screen	Options	Reference Page
<b>Shooting Mode</b> 	Sets the shooting mode. <ul style="list-style-type: none"> <li>•  Auto*</li> <li>•  Manual</li> <li>•  Long Shutter</li> <li>•  Macro</li> <li>•  Stitch Assist (left to right)</li> <li>•  Stitch Assist (right to left)</li> </ul>	p. 53 p. 65 p. 77 p. 61 p. 68
<b>Exposure Compensation</b> 	Sets the exposure compensation. -2 to $\pm 0^*$ to +2	p. 75
<b>White Balance</b> 	Sets the white balance option. <ul style="list-style-type: none"> <li>•  Auto*</li> <li>•  Daylight</li> <li>•  Cloudy</li> <li>•  Tungsten</li> <li>•  Fluorescent</li> <li>•  Fluorescent H</li> </ul>	p. 79
<b>ISO Speed</b> 	Sets the sensitivity at which images are recorded. <ul style="list-style-type: none"> <li>• AUTO</li> <li>• 50*</li> <li>• 100</li> <li>• 200</li> <li>• 400</li> </ul>	p. 83

Item/Menu Screen	Options	Reference Page
<p><b>Photo Effect</b></p> 	<p>Sets the photo effect.</p> <ul style="list-style-type: none"> <li>•  Effect Off*</li> <li>•  Vivid</li> <li>•  Neutral</li> <li>•  Low Sharpening</li> <li>•  Sepia</li> <li>•  BW</li> </ul>	p. 81
<p><b>Light Metering System</b></p> 	<p>Sets the light metering method.</p> <ul style="list-style-type: none"> <li>•  Evaluative*</li> <li>•  Center Weighted Average</li> <li>•  Spot</li> </ul>	p. 74
<p><b>Resolution (Stills)</b></p> 	<p>Sets the number of pixels used for images.</p> <ul style="list-style-type: none"> <li>•  (Large) 2272 x 1704pixels*</li> <li>•  (Medium 1) 1600 x 1200 pixels</li> <li>•  (Medium 2) 1024 x 768 pixels</li> <li>•  (Small) 640 x 480 pixels</li> </ul>	p. 57
<p><b>Resolution (Movies)</b></p> 	<p>Sets the number of pixels used for movies.</p> <ul style="list-style-type: none"> <li>•  320 x 240 pixels*</li> <li>•  160 x 120 pixels</li> </ul>	p. 57
<p><b>Compression (Stills)</b></p> 	<p>Sets the relative compression ratio used for images.</p> <ul style="list-style-type: none"> <li>•  Superfine</li> <li>•  Fine*</li> <li>•  Normal</li> </ul>	p. 57

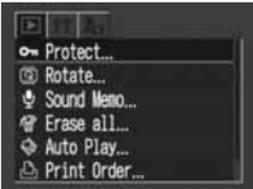
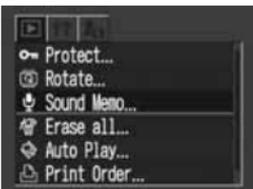
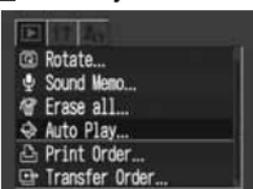
# Rec. Menu

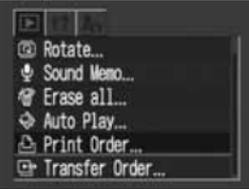
\*Default setting

Item/Menu Screen	Options	Reference Page
<p><b>Quick Shot</b></p> 	<p>Sets the Quick Shot option to on or off.</p> <ul style="list-style-type: none"> <li>• On*</li> <li>• Off</li> </ul>	<p>p. 44</p>
<p><b>A/AF</b></p> 	<p>Sets whether or not the camera automatically selects the AF frame or a fixed center AF frame.</p> <ul style="list-style-type: none"> <li>• On*</li> <li>• Off</li> </ul>	<p>p. 73</p>
<p><b>Self-timer</b></p> 	<p>Sets the duration of the self-timer delay.</p> <ul style="list-style-type: none"> <li>• 10 seconds*</li> <li>• 2 seconds</li> </ul>	<p>p. 63</p>
<p><b>AF-assist Beam</b></p> 	<p>Sets the AF-assist Beam to on or off.</p> <ul style="list-style-type: none"> <li>• On*</li> <li>• Off</li> </ul>	<p>p. 44</p>

Item/Menu Screen	Options	Reference Page
	Sets the digital zoom to on or off. <ul style="list-style-type: none"> <li>• On*</li> <li>• Off</li> </ul>	p. 42
	Sets the duration images display on the LCD monitor after the shutter button releases. <ul style="list-style-type: none"> <li>• Off</li> <li>• 2* to 10 seconds</li> </ul>	p. 55

## Play Menu

Item/Menu Screen	Options	Reference Page
<p><b>Protect</b></p> 	<p>Protects images from accidental erasure.</p>	<p>p. 101</p>
<p><b>Rotate</b></p> 	<p>Rotates images clockwise 90° or 270° in the display.</p>	<p>p. 95</p>
<p><b>Sound Memo</b></p> 	<p>Adds sound memos to images.</p>	<p>p. 97</p>
<p><b>Erase all</b></p> 	<p>Deletes all images from an SD card (except for protected images).</p>	<p>p. 103</p>
<p><b>Auto Play</b></p> 	<p>Plays images automatically one after the other.</p>	<p>p. 100</p>

Item/Menu Screen	Options	Reference Page
 <p><b>Print Order</b></p>	<p>Selects images and the number of print copies for output to a direct print compatible printer or photo developing service.</p>	<p>p. 108</p>
 <p><b>Transfer Order</b></p>	<p>Specifies settings for images before downloading to a computer.</p>	<p>p. 114</p>

# Set up Menu

\*Default setting

Item/Menu Screen	Options	Reference Page
<p> <b>Mute</b></p> 	<p>Sets whether or not a beep sounds when the shutter button is pressed or when a menu operation is performed.</p> <p>See also "How the [Mute] option in the  (Set up) Menu and Sound in the  (My Camera) Menu Interact" (p. 143).</p> <ul style="list-style-type: none"> <li>• On</li> <li>• Off*</li> </ul> <p>(Still beeps to warn of an error even when set to On.)</p>	<p>—</p>
<p> <b>Volume</b></p> 	<p>Adjusts the volume of the start-up sound, operation sound, self-timer sound, shutter sound and playback sound.</p> <p>The volume cannot be adjusted if [Mute] is set to [On].</p>	<p>p. 32 p. 43 p. 64 p. 92 p. 97</p>
<p> <b>Start-up Vol.</b></p> 	<p>Adjusts the volume of the start-up sound when the camera power is turned on.</p> <ul style="list-style-type: none"> <li>• □□□□ (Off)</li> <li>• ■□□□ (1)</li> <li>• ■■□□ (2)*</li> <li>• ■■■□□ (3)</li> <li>• ■■■■□ (4)</li> <li>• ■■■■■ (5)</li> </ul>	<p>p. 32</p>

Item/Menu Screen	Options	Reference Page
<p> <b>Operation Vol.</b></p> 	<p>Adjusts the volume of the operation sound that beeps when any button other than the shutter button is pressed.</p> <ul style="list-style-type: none"> <li>• □□□□ (Off)</li> <li>• ■□□□ (1)</li> <li>• ■■□□ (2)*</li> <li>• ■■■□□ (3)</li> <li>• ■■■■□ (4)</li> <li>• ■■■■■ (5)</li> </ul>	<p>—</p>
<p> <b>Selftimer Vol.</b></p> 	<p>Adjusts the volume of the self-timer sound played 2 sec. before the shutter is released.</p> <ul style="list-style-type: none"> <li>• □□□□ (Off)</li> <li>• ■□□□ (1)</li> <li>• ■■□□ (2)*</li> <li>• ■■■□□ (3)</li> <li>• ■■■■□ (4)</li> <li>• ■■■■■ (5)</li> </ul>	<p>p. 63</p>
<p> <b>Shutter Volume</b></p> 	<p>Adjusts the volume of the sound played when the shutter releases. The shutter sound does not play when a movie is recording.</p> <ul style="list-style-type: none"> <li>• □□□□ (Off)</li> <li>• ■□□□ (1)</li> <li>• ■■□□ (2)*</li> <li>• ■■■□□ (3)</li> <li>• ■■■■□ (4)</li> <li>• ■■■■■ (5)</li> </ul>	<p>p. 43</p>
<p> <b>Playback Vol.</b></p> 	<p>Adjusts the volume of movie sounds and sound memos.</p> <ul style="list-style-type: none"> <li>• □□□□ (Off)</li> <li>• ■□□□ (1)</li> <li>• ■■□□ (2)*</li> <li>• ■■■□□ (3)</li> <li>• ■■■■□ (4)</li> <li>• ■■■■■ (5)</li> </ul>	<p>p. 90 p. 97</p>

Item/Menu Screen	Options	Reference Page
	<p>Sets the type of information that appears in the Shooting Info, Review Info and Replay Info options.</p> <ul style="list-style-type: none"> <li>• Shooting Info: Off*/On</li> <li>• Review Info: Off*/On</li> <li>• Replay Info: Off*/Standard/Detailed</li> </ul>	p. 35
	<p>Adjusts the LCD brightness of the LCD monitor.</p> <ul style="list-style-type: none"> <li>• -7 to 0* to +7</li> </ul> <p>Use the ◀ or ▶ button to adjust the brightness. If you press the ▲ or ▼ button, the display returns to the Set up menu. You can check the brightness in the LCD monitor while you are adjusting the setting.</p>	-
	<p>Sets the [Auto Power Down] and [Display Off] options.</p>	-
	<p>Sets whether or not the camera automatically powers down after a set period of time elapses without something being pressed.</p> <ul style="list-style-type: none"> <li>• On*</li> <li>• Off</li> </ul>	p. 33
	<p>Sets the length of time before the LCD monitor goes off when no camera operation is performed.</p> <ul style="list-style-type: none"> <li>• 10 sec.</li> <li>• 20 sec.</li> <li>• 30 sec.</li> <li>• 1 min.*</li> <li>• 2 min.</li> <li>• 3 min.</li> </ul>	p. 33

Item/Menu Screen	Options	Reference Page
	Sets the date and time and the date format.	p. 28
	Sets the length of time for which the clock displays. <ul style="list-style-type: none"> <li>• 0 sec. to 5 sec.* to 10 sec.</li> <li>• 10 sec. to 30 sec. (in 10-sec. increments)</li> <li>• 1 min. to 3 min. (in 1-minute increments)</li> </ul>	p. 54
	Formats (initializes) SD cards.	p. 104
	Sets how file numbers are assigned to images when new SD cards are inserted. <ul style="list-style-type: none"> <li>• On</li> <li>• Off*</li> </ul>	p. 85

Item/Menu Screen	Options	Reference Page
<p><b>Language</b></p> 	<p>Sets the language used in menus and messages on the LCD monitor.</p> <ul style="list-style-type: none"> <li>• English*</li> <li>• Deutsch</li> <li>• Français</li> <li>• Nederlands</li> <li>• Dansk</li> <li>• Suomi</li> <li>• Italiano</li> <li>• Norsk</li> <li>• Svenska</li> <li>• Español</li> <li>• Chinese</li> <li>• Japanese</li> </ul> <p>You can also change the language in playback mode by holding the <b>SET</b> button and pressing the <b>MENU</b> button.</p>	<p>p. 30</p>
<p><b>Video System</b></p> 	<p>Sets the video output signal standard.</p> <ul style="list-style-type: none"> <li>• NTSC</li> <li>• PAL</li> </ul>	<p>p. 122</p>

## My Camera Menu

You can select the theme, start-up image and sound, shutter sound, operation sound and selftimer sound used on this camera.

These are called the My Camera settings. You can also customize the **[2]** and **[3]** options for each item with images recorded on the SD card and newly recorded sounds or by using the supplied software.

See the *Software Starter Guide* for details.

\*Default setting

Item/Menu Screen	Options	Reference Page
<b>[2]</b> Theme 	Selects a common theme for each My Camera settings item.* <sup>1</sup> <ul style="list-style-type: none"> <li>• <b>[Off]</b> Off</li> <li>• <b>[1]</b> *</li> <li>• <b>[2]</b></li> <li>• <b>[3]</b></li> </ul>	p. 124
<b>[3]</b> Start-up Image 	Sets the image displayed when the camera power is turned on. <ul style="list-style-type: none"> <li>• <b>[Off]</b> Off</li> <li>• <b>[1]</b> *</li> <li>• <b>[2]</b></li> <li>• <b>[3]</b></li> </ul>	p. 124
<b>[3]</b> Start-up Sound 	Sets the sound emitted when the camera power is turned on.* <sup>1</sup> <ul style="list-style-type: none"> <li>• <b>[Off]</b> Off</li> <li>• <b>[1]</b> *</li> <li>• <b>[2]</b></li> <li>• <b>[3]</b></li> </ul>	p. 124
<b>[3]</b> Operation Sound 	Sets the sound emitted when any button other than the shutter button is pressed.* <sup>1</sup> <ul style="list-style-type: none"> <li>• <b>[Off]</b> Off</li> <li>• <b>[1]</b> *</li> <li>• <b>[2]</b></li> <li>• <b>[3]</b></li> </ul>	p. 124

Item/Menu Screen	Options	Reference Page
<p> <b>Selftimer Sound</b></p> 	<p>Sets the sound emitted 2 seconds before the shutter releases in self-timer mode.*<sup>1</sup></p> <ul style="list-style-type: none"> <li>•  Off</li> <li>•  *</li> <li>•  *</li> <li>•  *</li> </ul>	<p>p. 124</p>
<p> <b>Shutter Sound</b></p> 	<p>Sets the sound emitted when the shutter button is pressed. There is no shutter sound for movies.*<sup>1</sup></p> <ul style="list-style-type: none"> <li>•  Off</li> <li>•  *</li> <li>•  *</li> <li>•  *</li> </ul>	<p>p. 124</p>

\*<sup>1</sup>For more information, see How the [Mute] option in the  (Set up) Menu and Sounds in the  (My Camera) Menu Interact (p. 143).

- **How the [Mute] option in the  (Set up) Menu and Sounds in the  (My Camera) Menu Interact**

To turn off each sound, such as the start-up sound, shutter sound, operation sound and selftimer sound, [Mute] must first be set to [On] in the  (Set up) menu. When [Mute] is set to [On], each sound option will not sound even if they are set individually to [On]. The warning sound, however, will emit even when [Mute] is set to [On].

## Resetting Settings to Their Default Values

You can reset the menu and button settings to the default settings in one operation.

ON/OFF



### 1 Press the ON/OFF button.

Set the mode switch to any position.

### 2 Press and hold the MENU button for more than 5 seconds.



### 3 Use the ◀ or ▶ button to select [OK] and press the SET button.

To exit without resetting, select [Cancel].



- Settings cannot be reset when the camera is connected to a computer or to a separately sold printer.
- The following cannot be reset.
  - Shooting mode settings (p. 53, p. 130)
  - The [Date/Time], [Language] and [Video System] options in the **i** (Set up) menu (p. 139, p. 140)
  - Newly added My Camera settings (p. 126)

## List of Messages

### List of Messages during Shooting/Playback

The following messages may appear on the LCD monitor during shooting or playback. Please refer to the *Direct Print User Guide* for the messages that display during a printer connection.

<b>Busy...</b>	Image is being recorded to, or read from, SD card.
<b>No memory card</b>	You attempted to shoot or play back images without an SD card installed.
<b>Card locked!</b>	The SD card is write-protected.
<b>Cannot record!</b>	You attempted to shoot an image without an SD card installed.
<b>Memory card error!</b>	SD card has experienced an anomaly.
<b>Memory card full</b>	SD card is too full to accommodate more images or print settings.
<b>Naming error!</b>	The file could not be created because there is a file with the same name as the directory that the camera is attempting to create, or the highest possible file number has already been reached. In the Rec. Menu, set the File Reset option to [On]. Save all the images you wish to retain onto a computer, then reformat the SD card. Please note that formatting will erase all the existing images and other data.
<b>Change the battery pack</b>	Battery charge is insufficient to operate the camera. Replace it at once with a charged one or recharge the battery pack.
<b>No image</b>	No images recorded on SD card.
<b>Image too large</b>	You attempted to play back an image larger than 4064 x 3048 pixels or with a large file size.
<b>Incompatible JPEG format.</b>	You attempted to play back an incompatible JPEG file.
<b>Corrupted Data</b>	You attempted to play back an image with corrupted data.

<b>RAW</b>	You attempted to play back an image recorded in the RAW format.
<b>Unidentified Image</b>	You attempted to play back an image that was recorded in a special format (proprietary format used by the camera of another manufacturer, etc.) or a movie clip recorded by another camera.
<b>Cannot magnify!</b>	You attempted to magnify a movie clip or an image which was photographed with another camera, recorded in a different format, or edited on a computer.
<b>Cannot rotate</b>	You attempted to rotate a movie clip or an image which was photographed with another camera, recorded in a different format, or edited on a computer.
<b>Incompatible WAVE format</b>	A sound memo cannot be added to this image since the format of the existing sound memo is incorrect.
<b>Cannot register this image!</b>	You attempted to add a start-up image that was created with another camera.
<b>Protected!</b>	You attempted to erase a protected image.
<b>Too many marks</b>	Too many images have been marked with print settings or transfer settings. Cannot process any more.
<b>Unselectable image</b>	You attempted to set the print settings for a non-JPEG file.
<b>Exx</b>	(xx: number) Camera malfunction. Turn the power off and then back on, then shoot or play back. A problem exists if the error code reappears. Note the number and contact your Canon Customer Support Help Desk. If an error code displays directly after taking a picture, the shot may not have been recorded. Check image in playback mode.

## Camera Care and Maintenance

Use the following procedures to clean the camera body, lens and LCD monitor.



Never use thinners, benzene, synthetic cleansers or water to clean the camera. These substances may distort or damage the equipment.

### Camera Body

Gently wipe dirt off the camera body with a soft cloth or eyeglass lens wiper.

### Lens

First use a lens blower brush to remove dust and dirt, then remove any remaining dirt by wiping the lens lightly with a soft cloth.



Never use synthetic cleansers on the camera body or lens. If dirt remains, contact the closest Canon Customer Support Help Desk as listed on the separate Canon Customer Support leaflet.

### LCD Monitor

Use a lens blower brush to remove dust and dirt. If necessary, gently wipe with a soft cloth or an eyeglass lens wiper to remove stubborn dirt.



Never rub or press strongly on the LCD monitor. These actions may damage it or lead to other problems.

Problem	Cause	Solution
Camera will not operate	Power is not turned on	<ul style="list-style-type: none"> <li>• Press the <b>ON/OFF</b> button for a moment.</li> </ul>
	SD card slot/battery cover is open	<ul style="list-style-type: none"> <li>• Confirm that the SD card slot/battery cover is securely closed.</li> </ul>
	Insufficient battery voltage	<ul style="list-style-type: none"> <li>• Insert a fully charged battery into the camera.</li> </ul>
	Poor contact between camera and battery terminals	<ul style="list-style-type: none"> <li>• Wipe the terminals with a clean dry cloth.</li> </ul>
Camera will not record	Mode switch is set to  (Playback)	<ul style="list-style-type: none"> <li>• Set the mode switch to  or .</li> </ul>
	Flash is charging	<ul style="list-style-type: none"> <li>• Wait until the flash charges. You can press the shutter button when the indicator lights orange.</li> </ul>
	SD card is full	<ul style="list-style-type: none"> <li>• Insert a new SD card.</li> <li>• If required, download the images to a computer and erase them from the SD card to make space.</li> </ul>
	SD card is not formatted correctly	<ul style="list-style-type: none"> <li>• Format SD card. ➔(See <i>Formatting SD Cards</i> (p. 104).)</li> <li>• If reformatting does not work, the SD card logic circuits may be damaged. Consult the nearest Canon Customer Support Help Desk.</li> </ul>
Lens will not retract	The SD card is write-protected.	<ul style="list-style-type: none"> <li>• Slide the write protect tab of the SD card upward (p. 25).</li> </ul>
	SD card slot/battery cover was opened with power on	<ul style="list-style-type: none"> <li>• First close the SD card slot/battery cover and then turn the power off.</li> </ul>
	SD card slot/battery cover was opened while recording to the SD card (warning signal sounds)	<ul style="list-style-type: none"> <li>• First close the SD card slot/battery cover and then turn the power off.</li> </ul>

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
Battery pack consumed quickly	Battery life exceeded if battery pack loses its charge quickly at normal temperature (23 °C/73 °F)	<ul style="list-style-type: none"> <li>• Replace the battery pack with a new one.</li> </ul>
Battery pack will not charge	Battery pack life exceeded	<ul style="list-style-type: none"> <li>• Replace the battery pack with a new one.</li> </ul>
	Poor contact between battery pack and battery charger	<ul style="list-style-type: none"> <li>• Insert battery pack securely into battery charger.</li> <li>• Ensure that battery charger plug is securely plugged into the power outlet.</li> </ul>
Image is blurred or out of focus	Camera moved	<ul style="list-style-type: none"> <li>• Be careful not to move the camera while pressing the shutter button.</li> </ul>
	Autofocus function hampered by obstruction to AF-assist Beam	<ul style="list-style-type: none"> <li>• Be careful not to block the AF-assist Beam with fingers or other items.</li> </ul>
	AF-assist Beam is set to [Off]	<ul style="list-style-type: none"> <li>• Set the AF-assist Beam to [On] (p. 132).</li> </ul>
	Subject is out of focal range	<ul style="list-style-type: none"> <li>• Ensure there is at least 10 cm (3.9 in.) between the camera lens and subject.</li> <li>• Use the Macro mode to shoot close-ups between 3 and 10 cm (1.2 to 3.9 in.) from the lens.</li> </ul>
	The subject is hard to focus on	<ul style="list-style-type: none"> <li>• Use the focus lock to shoot. ➡ See <i>Locking the Focus</i> (p. 71).</li> </ul>

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
Subject in recorded image is too dark	Insufficient light for shooting	<ul style="list-style-type: none"> <li>• Set the flash to on.</li> </ul>
	Subject is dark in contrast to the background	<ul style="list-style-type: none"> <li>• Set the exposure compensation to a positive (+) setting or use the spot metering function.</li> </ul>
	Subject is too far away for flash to reach	<ul style="list-style-type: none"> <li>• Shoot within 2.0 m (6.6 ft.) of the subject when using the flash.</li> </ul>
Subject in recorded image is too bright	Subject is too close, making the flash too strong	<ul style="list-style-type: none"> <li>• When using the flash, stay at least 30 cm (1.0 ft.) from the subject.</li> </ul>
	Subject is bright in contrast to the background	<ul style="list-style-type: none"> <li>• Set the exposure compensation to a negative (-) setting or use the spot metering function.</li> </ul>
	Light is shining directly on the subject or reflected off the subject into the camera	<ul style="list-style-type: none"> <li>• Change the shooting angle.</li> </ul>
	Flash is set to on	<ul style="list-style-type: none"> <li>• Set the flash to off.</li> </ul>
A bar of light (red, purple) appears on the LCD monitor	Subject is too bright	<ul style="list-style-type: none"> <li>• This is a normal occurrence in devices containing CCDs and does not constitute a malfunction. (This bar of light will not be recorded when shooting still photos, but it will be recorded when shooting movies.)</li> </ul>
White dots appear on the image	Light from the flash has reflected off dust particles or insects in the air.	<ul style="list-style-type: none"> <li>• This is a phenomenon that occurs with digital cameras and does not constitute a malfunction.</li> </ul>
Flash does not fire	Flash is set to off	<ul style="list-style-type: none"> <li>• Set the flash to on.</li> </ul>
Image not showing on TV monitor	Incorrect video system setting	<ul style="list-style-type: none"> <li>• Set the video system to the appropriate setting, NTSC or PAL, for your TV (p. 140).</li> </ul>
	Shooting in stitch assist	<ul style="list-style-type: none"> <li>• The output will not appear on a TV in stitch assist. Cancel the stitch assist.</li> </ul>

Problem	Cause	Solution
Reading images from SD card is slow	SD card was formatted in another device	<ul style="list-style-type: none"> <li>• Use an SD card formatted in your camera.</li> <li>➡ See <i>Formatting SD Cards</i> (p. 104).</li> </ul>
Recording images to SD card takes a long time		

## Specifications

All data is based on Canon's standard testing methods. Subject to change without notice.

### PowerShot SD10 DIGITAL ELPH / DIGITAL IXUS i

<b>Camera Effective Pixels</b>	Approx. 4 million
<b>Image Sensor</b>	1/2.5-inch CCD (Total number of pixels: Approx. 4.2 million)
<b>Lens</b>	6.4 mm (35 mm film equivalent: 39 mm) f/2.8
<b>Digital Zoom</b>	Approx. 5.7x
<b>LCD Monitor</b>	1.5-inch, low-temperature polycrystalline silicon TFT color LCD, approx. 78,000 pixels (Picture coverage 100%)
<b>AF System</b>	TTL autofocus Focusing frame: 5-point AiAF/1-point AF (center)
<b>Shooting Distance (From the front of the lens)</b>	Normal AF: 10 cm (3.9 in.) – infinity Macro AF: 3 – 10 cm (1.2. – 3.9 in.)
<b>Shutter</b>	Mechanical shutter + electronic shutter
<b>Shutter Speeds</b>	15 – 1/1500 sec. 1.3 sec. or slower shutter speeds are available with Long shutter shooting only. Slow shutter speeds of 1.3 sec. or slower operate with noise reduction.
<b>Light Metering System</b>	Evaluative, Center-weighted average or Spot
<b>Exposure Control System</b>	Program AE
<b>Exposure Compensation</b>	± 2.0 stops in 1/3-stop increments
<b>Sensitivity</b>	Auto, ISO 50/100/200/400 equivalent
<b>White Balance</b>	TTL auto white balance, pre-set white balance (available settings: Daylight, Cloudy, Tungsten, Fluorescent or Fluorescent H)
<b>Built-in Flash</b>	Auto*, On*, Off, Slow synchro * Red-eye reduction is available.
<b>Flash Range</b>	30 cm – 2.0 m (1.0 – 6.6 ft.) (When sensitivity is set to AUTO.)
<b>Shooting Modes</b>	Auto/manual/long shutter/macro/stitch assist/movie

<b>Continuous Shooting</b>	Approx. 1.6 shots/sec. (Large/Fine mode)	
<b>Self-timer</b>	Activates shutter after an approx. 2-sec./approx. 10-sec. delay	
<b>Recording Media</b>	SD memory card	
<b>File Format</b>	Design rule for camera file system and DPOF compliant	
<b>Image Recording Format</b>	Still images: JPEG (Exif 2.2)* <sup>1</sup> Movies: AVI (Image data: Motion JPEG; Audio data: WAVE (monaural))	
<b>Compression</b>	Superfine, Fine, Normal	
<b>Number of Recording Pixels</b>	Still images:	Large: 2272 x 1704 pixels Medium 1: 1600 x 1200 pixels Medium 2: 1024 x 768 pixels Small: 640 x 480 pixels
	Movies:	320 x 240 pixels (approx. 3 min.)* 160 x 120 pixels (approx. 3 min.)* Approx. 15 frames/second
		*The data in parentheses refer to the maximum movie length per shooting.
<b>Playback Modes</b>	Single (histogram displayable), Index (9 thumbnail images), Magnified (approx. 10x (max.) in LCD monitor), Sound memos (up to 60 sec.), Auto play or image output to direct print compatible CP-series (CP-300/CP-200/CP-100/CP-10) and Bubble Jet printers.	
<b>Display Languages</b>	12 languages available for menus and messages (English, Deutsch, Français, Nederlands, Dansk, Suomi, Italiano, Norsk, Svenska, Español, Chinese and Japanese)	
<b>My Camera Settings</b>	The start-up image, start-up sound, shutter sound, operation sound and self-timer sound can be customized using the following methods: 1. Using the images and sounds recorded on a camera. 2. Using the downloaded data from your computer using the supplied software.	
<b>Interface</b>	USB (mini-B, PTP [Picture Transfer Protocol]), Audio/Video output (NTSC or PAL selectable, monaural audio)	

<b>Power Source</b>	Rechargeable lithium-ion battery (type: NB-3L) (included in the camera kit/sold separately)
<b>Operating Temperature</b>	0 – 40 °C (32 – 104 °F)
<b>Operating Humidity</b>	10 – 90%
<b>Dimensions</b>	90.3 x 47.0 x 18.5 mm (3.56 x 1.85 x 0.73 in.) (excluding protrusions)
<b>Weight</b>	Approx. 100 g (3.53 oz.) (camera body only)

\*1 This digital camera supports Exif 2.2 (also called “Exif Print”). Exif Print is a standard for enhancing the communication between digital cameras and printers. By connecting to an Exif Print-compliant printer, the camera’s image data at the time of shooting is used and optimized, yielding extremely high quality prints.

## Battery Capacity

Battery Pack NB-3L (fully charged)

Number of recordable images	Approx. 190 images
Playback	Approx. 140 minutes

\* Excludes movie data.

\* At low operating temperatures, battery pack performance may be reduced and the low battery icon may appear earlier than usual. Under these conditions, resuscitate the battery pack by warming it in a pocket immediately before use.

### Test Criteria

Shooting: Normal temperature (23 °C/73 °F), 20 sec. interval, flash used once in four shots, power turned off and on again after every eighth shot.

Playback: Normal temperature (23 °C/73 °F), continuous playback at 3 seconds per image, LCD monitor set to default brightness.

## SD Cards and Estimated Capacities

		SDC-32M	SDC-128M
<b>L</b> (2272 x 1704 pixels)		14	61
		26	109
		52	216
<b>M1</b> (1600 x 1200 pixels)		29	121
		52	216
		99	411
<b>M2</b> (1024 x 768 pixels)		50	211
		89	372
		157	651
<b>S</b> (640 x 480 pixels)		110	460
		171	711
		269	1117
Movie	 (320 x 240 pixels)	85 seconds	355 seconds
	 (160 x 120 pixels)	209 seconds	869 seconds

- The maximum movie clip length is approximately : 3 min., : 3 min. The times shown are the maximum continuous recording times.
- **L** (Large), **M1** (Medium 1), **M2** (Medium 2), **S** (Small),  and  indicate the recording resolution.
-  (Superfine),  (Fine) and  (Normal) indicate the compression setting.

## Image File Sizes (Estimated)

Resolution		Compression		
				
<b>L</b>	(2272 x 1704)	2202 KB	1116 KB	556 KB
<b>M1</b>	(1600 x 1200)	1002 KB	558 KB	278 KB
<b>M2</b>	(1024 x 768)	570 KB	320 KB	170 KB
<b>S</b>	(640 x 480)	249 KB	150 KB	84 KB
Movies	 (320 x 240)	330 KB/sec.		
	 (160 x 120)	120 KB/sec.		

## SD Memory Card

Interface	Compatible with SD memory card standard
Dimensions	32.0 x 24.0 x 2.1 mm (1.3 x 0.9 x 0.1 in.)
Weight	Approx. 2 g (0.1 oz.)

## Battery Pack NB-3L

Type	Rechargeable Lithium Ion Cell
Nominal Voltage	3.7 V
Typical Capacity	790 mAh
Cycle Life	Approx. 300 times
Operating Temperatures	0 – 40 °C (32 – 104 °F)
Dimensions	32.0 x 44.8 x 9.0 mm (1.3 x 1.8 x 0.4 in.)
Weight	Approx. 22 g (0.8 oz.)

## Battery Charger CB-2LU/CB-2LUE

Rated Input	100 – 240 V AC (50/60 Hz) 0.085 A (100 V) – 0.05 A (240 V)
Rated Output	4.2 V DC/0.7 A
Charging Time	Approx. 95 minutes
Operating Temperatures	0 to 40 °C (32 to 104 °F)
Dimensions	52.0 x 71.0 x 25.8 mm (2.0 x 2.8 x 1.0 in.)
Weight	Approx. 56 g (2.0 oz.) (CB-2LU) Approx. 58 g (2.0 oz.) (CB-2LUE)

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**MEMO**

# MEMO

# MEMO

# MEMO

**MEMO**

## **Disclaimer**

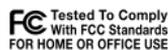
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## **FCC Notice**

(Digital Camera, Model PC1060)



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.

Note: This equipment has been tested and found to comply with the limits for Class B digital devices, 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/TV technician for help.

The cable with the ferrite core provided with the digital camera must be used with this equipment in order to comply with Class B limits in Subpart B of Part 15 of the FCC rules.

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

Canon U.S.A. Inc.  
One Canon Plaza, Lake Success, NY 11042, U.S.A.  
Tel No. (516) 328-5600

## **Canadian Radio Interference Regulations**

THIS CLASS B DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE CAUSING EQUIPMENT REGULATIONS.

## **Réglementation canadienne sur les interférences radio**

CET APPAREIL NUMERIQUE DE LA CLASSE B RESPECTE TOUTES LES EXIGENCES DU REGLEMENT SUR LE MATERIEL BROUILLEUR DU CANADA.

## Functions Available in Each Shooting Mode

The chart below is a reference for the settings available for various shooting conditions. The settings selected in each shooting mode are saved after you finish shooting.

Function			Shooting					Movie	Reference Page
Resolution	Large	<b>L</b>	○*	○*	○*	○*	△*	—	p. 57
	Medium 1	<b>M1</b>	○	○	○	○	△	—	
	Medium 2	<b>M2</b>	○	○	○	○	△	—	
	Small	<b>S</b>	○	○	○	○	△	—	
	Movie	<b>320</b>	—	—	—	—	—	○*	
	Movie	<b>160</b>	—	—	—	—	—	○	
Compression	Superfine	<b>S</b>	○	○	○	○	△	—	p. 57
	Fine		○*	○*	○*	○*	△*	—	
	Normal		○	○	○	○	△	—	
Flash	Auto		○	○	—	—	—	—	p. 59
	Red-Eye Reduction Auto		○*	○*	—	—	—	—	
	On		—	○	○	—	△	—	
	Off		○	○	○*	○	△*	○	
	Slow Synchro		—	○	○	—	△	—	
Quick Shot		○	○	—	—	—	—	p. 44	
Shooting Method	Single		○*	○*	○*	○*	△*	○*	—
	Continuous shooting		—	○	○	○	—	—	p. 62
	10-sec. self-timer		○	○	○	○	△	○	p. 63
	2-sec. self-timer		○	○	○	○	△	○	
Autofocus Modes		—	○	○	○	—	—	p. 73	
AF-assist Beam		○	○	○	○	△	○	p. 44	
Digital Zoom		○	○	○	○	—	—	p. 42	
Exposure Compensation		—	○	—	○	△	○	p. 75	
Light Metering Method	Evaluative		—	○*	○	○*	—	—	p. 74
	Center-Weighted Average		—	○	—	○	—	—	
	Spot		—	○	—	○	—	—	
White Balance		—	○	○	○	△	○	p. 79	

Function	📷 Shooting					🎥 Movie	Reference Page
<b>Photo Effect</b>	–	○	○	○	△	○	p. 81
<b>ISO Speed</b>	– <sup>(1)</sup>	○	○	○	– <sup>(1)</sup>	– <sup>(1)</sup>	p. 83

\* Default setting

○ Setting available

△ Setting can only be selected for the first image.

■ (Shaded Area): Setting is memorized even when the camera power is shut off.

<sup>(1)</sup> The ISO speed is automatically set.

With the exception of the [Date/Time], [Language] and [Video System] settings, all the other menu settings and changes made with the camera buttons can be reset to the default values in a single operation (p. 144).