# Canon

# Canon



DIGITAL CAMERA

IXUS*i* 

**ENGLISH** 



DiG!C











Canon

PowerShot SD10 DIGITAL ELPH

DIGITAL IXUS i

# **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 This Guide **Shooting with the Camera Software Starter Guide Installing the Software** This Guide Connecting the Camera to a Computer Software Starter Guide **Downloading Images to a Computer**

Direct Print User Guide Printer User Guide

**Using the Printer and Printing** 

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

See FUNC. Menu (p. 130).

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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### **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.

#### $\wedge$ Cautions

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



### 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.



# 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.



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



Turn on the power (p. 32).

The indicator blinks green, then shuts off.



# 7 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.



Q View the recorded image (p. 55).

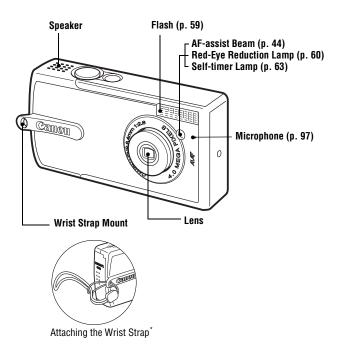
The recorded image displays for approximately 2 seconds. To continue displaying the image, keep the shutter button pressed or hold the shutter button until you press the **SET** button and then release both.



#### To Immediately Erase the Displayed Image

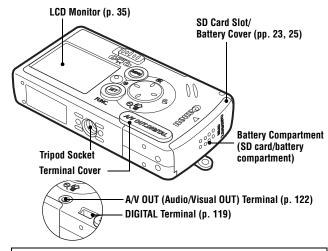
- Press the harmonic button while the image is displayed.
- Confirm that [Erase] is selected and press the SET button.
- Erase? Erase Ganco
- Set the date and time if the Date/Time menu appears (p. 28).
- You can change the language in which menus are displayed (p. 30).
- To view the other images you 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**



<sup>\*</sup> 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)

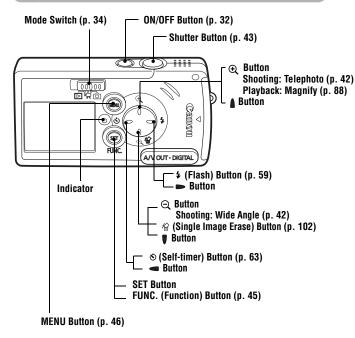
USB Interface Cable IFC-300PCU (supplied with the camera)

#### **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.

# **Operation Panel**



#### SET Button and FUNC. Button Descriptions

The "SET/FUNC. button" description refers to shooting instructions and the "SET button" description refers to all other instructions throughout this manual.

# **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, selftimer 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.



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.



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 (⊕⊕⊕) 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 ⊕ and ⊝ 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.





- 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**

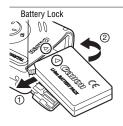
Install Battery Pack NB-3L (supplied).



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



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



- 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.



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.
Change the battery pack	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.



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



#### Insert the SD card.

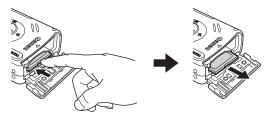
- Insert the SD card as shown on the inside of the battery cover until you hear it click into place.
- Do not touch or allow metal objects to contact the terminals on the back of the SD card.



# 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**

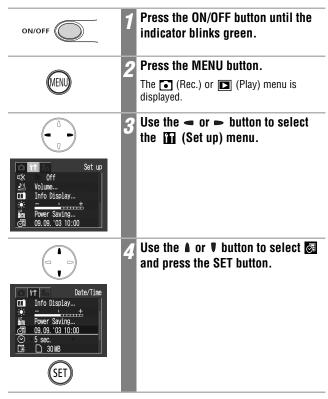
- SD cards are high-precision electronic devices. Do not bend them, apply force to them, or subject them to shocks or vibration.
- Do not attempt to disassemble or alter the SD card.
- Do not allow dirt, water or foreign objects to contact the terminals on the back of the card. Do not touch the terminals 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.



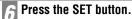




#### 5 Set the date and time.

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





The setting is complete.



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*.

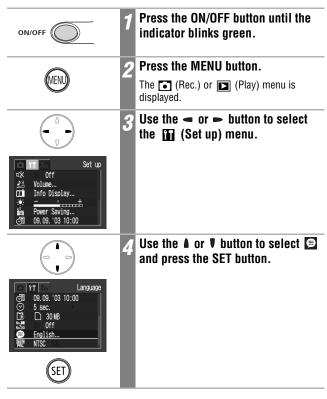


#### Charging the Date/Time Battery

- 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.

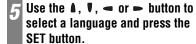
# **Setting the Language**

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













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**



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

- The lens extends when the mode switch is set to or ▼.

#### 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 .
   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 menus 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)





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



#### Replay Information (Playback Mode)

[0ff]



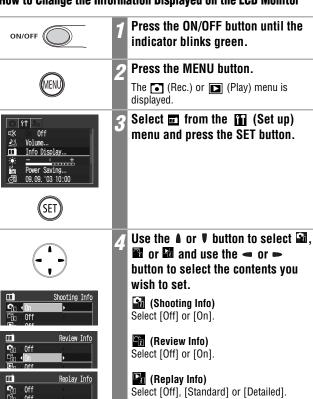
[Standard]



[Detailed]



# How to Change the Information Displayed on the LCD Monitor



MENU

#### Press the MENU button.

The display will return to the Menu display. Press the **MENU** 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**

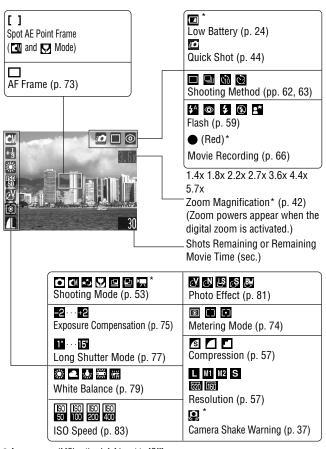
When shooting or playing back images, the shooting information, review information or replay information appears on the LCD monitor.

## **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.)



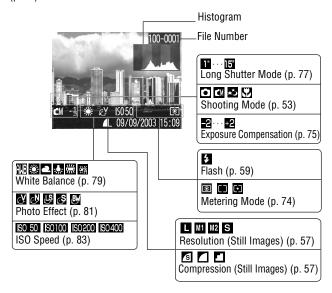
A slow shutter speed has likely been selected because of insufficient lighting if the indicator blinks orange after the metering preparations are complete and the camera shake icon get displays in the LCD monitor. Set the flash to get or affix the camera to a tripod to shoot.



<sup>\*</sup> 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)



Image Number — 1/10

0-п

Protection Status (p. 101)

Þ

WAVE Format Sound (p. 98)

L M1 M2 S

Resolution (Still Images) (p. 57)

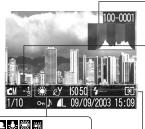
Movie (p. 90)

\_\_\_\_

S A L

Compression (Still Images) (p. 57)

# Replay Information-Detailed (Playback Mode)



쌔☀▲★≒

White Balance (p. 79)

(V) (B) (S) (B)

Photo Effect (p. 81)

ISO 50 ISO100 ISO200 ISO400

ISO Speed (p. 83)

320 [160

Resolution (Movies) (p. 57)

Histogram

ĺ 1" ··· 15"

Long Shutter Mode (p. 77)

日日なります。

Shooting Mode (p. 53)

-2 · · · +2

Exposure Compensation (p. 75)

4

Flash (p. 59)

Metering Mode (p. 74)

Movie Length Shown on Movie Files (p. 66)

The following information may also be displayed with some images.

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



# **7** 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 Q button to zoom out.



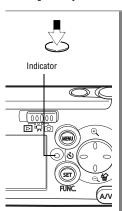
- Images become coarser the more they are digitally zoomed.
   However, the actual recorded image is not as coarse as it appears in the LCD monitor.
- You can set the camera to prohibit digital zooming (p. 133).

# **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.



#### **Ouick Shot**

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

- Confirm that 20 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)



FUNC

:**0** 🗆 💿



The icons of the items that can be adjusted appear at the LCD monitor's left edge.











- Use the **→** or **→** button to select an option.
  - The icon changes to the icon of the selected option.
  - Some menu items can only be selected after pressing the MENU button to change the menu.
  - You can shoot right after performing these steps. The menu displays again after the shot, allowing you to change the settings easily.



4

Press the SET/FUNC. button.

The menu will close.

# **Selecting Menu Settings with the MENU Button**



7 Press the MENU button.

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

In Playback mode, the 🔼 (Play) menu appears.



Use the or ➤ button to select the Rec./Play, Set up, or My Camera menu.

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



3 Use the ∆ or ♥ button to select an item.



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.



# 7 Press the MENU button.

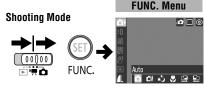
- The menu will close.
- In Shooting mode, the menu can be closed by pressing the shutter button halfway.



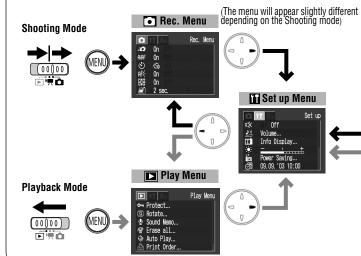
See Setting the DPOF Print Settings for the procedures for the (Print Order) item in the Play menu.

# **Selecting Menus and Settings (Cont'd)**





## Selecting Settings with the MENU Button







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





(Selects item, Sets item)

FUNC.

: Shooting Mode : Playback Mode





(Selects item)

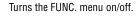


(Sets item)



- 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.





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
	■ Auto*	p. 53
	Manual	p. 65
Shooting Mode	Long Shutter	p. 77
	Macro	p. 61
	Stitch Assist (R)/ Stitch Assist (L)	p. 68
Exposure Compensation	-2 to ±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*/❷ Vivid/❷ Neutral/ ☑ Low Sharpening/❷ Sepia/❷ BW	p. 81
Light Metering	<ul><li>■ Evaluative*/■ Center-weighted average/</li><li>■ Spot</li></ul>	p. 74
Resolution (Still images)	L 2272 x 1704*/M1 1600 x 1200/ M2 1024 x 768/S 640 x 480	n 57
Resolution (Movie)	320 x 240*/(161) 160 x 120	p. 57
Compression (Still images)	<ul><li>Superfine/  Fine*/</li><li>Normal</li></ul>	p. 57

#### Items Set with the MENU Button

Menu Item		Available Settings	Reference Page	
	🖸 Quick Shot	On*/Off	p. 44	
	AIAF AIAF	On*/Off	p. 73	
lacksquare	Self-Timer	<b>*/</b>	p. 63	
Rec. Menu	解 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	
	o 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	
Play	Erase all	Erases all images on the SD card.	p. 103	
Menu		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	
	¤⊁ Mute	On/Off*	p. 136	
Set up Menu	<b>№</b> 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	
	<b>■</b> 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	<ul><li>Auto Power Down (0n*/0ff)</li><li>Display Off (10 sec./20 sec./30 sec./1 min.*/2 min./3 min.)</li></ul>	p. 33	
		Sets the date and time.	p. 28	

Menu Item		Available Settings	Reference Page
	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
11	File No. Reset	On/Off*	p. 85
Set up Menu	<b>⊜</b> Language	English* /Deutsch / Français / Nederlands / Dansk / Suomi / Italiano / Norsk / Svenska / Español / Chinese / Japanese	p. 30
	₩ Video System	NTSC/PAL	p. 123
	<b>™</b> Theme	PX/11*/P2/23	p. 124
Ω.	Start-up Image	PX/11*/P2/23	p. 124
My Camera Menu	Start-up Sound	PX/11*/P2/P3	p. 124
	Operation Sound	PX/11*/P2/P3	p. 124
	Selftimer Sound	PX/11 */P2/P3	p. 124
	Shutter Sound	PX/11*/P2/P3	p. 124

<sup>\*</sup> Default setting. Default video system setting varies between regions.

<sup>•</sup> You can apply a desired image and sound to A and I in the My Camera menu. For details, see *Registering My Camera Settings* or the *Software Starter Guide*.

<sup>•</sup> Camera settings can be reset to the default values (p. 144).

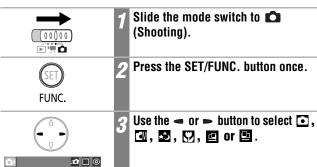
# **Selecting a Shooting Mode**

The camera features the following shooting modes.

•	Auto	Most settings are automatically selected by the camera		
	Manual	The exposure compensation, white balance, photo effect and other settings can be manually selected (p. 65).		
<b>∗</b> 5	Long Shutter	Images are shot with a slow shutter speed (p. 77).		
\$2	Macro	Images can be shot from as close as 3 cm (1.2 in.) from the subject (p. 61).		
<u></u>	Stitch Assist	Images are shot in overlapping series to create single panoramic images (p. 68).		
<b>)</b>	Movie	Shoots movie clips (p. 66).		

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

Selecting  $lackbox{0}$ ,  $lackbox{0}$ ,  $lackbox{0}$ ,  $lackbox{0}$ ,  $lackbox{0}$  or  $lackbox{0}$ .







Press the SET/FUNC. button once.

#### Selecting '\'





# 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  $\blacktriangleleft$  or  $\blacktriangleright$  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.



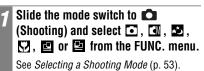
- You can do the following while the image is displayed.
- Erase the image (p. 102).
- Magnify the image in the display (p. 88).
- Shooting conditions and setting contents can be displayed on images (p. 39).

## **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.













# 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		
L (Large) 2272 x 1704 pixels	Larne	<ul> <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>	
M1 (Medium 1) 1600 x 1200 pixels		<ul> <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>	
M2 (Medium 2) 1024 x 768 pixels		• Print card size 86 x 54 mm (3.4 x 2.1 in.) prints	
S (Small) 640 x 480 pixels	<b>▼</b> Small	Send images as e-mail attachments     Shoot more images	

<sup>\*</sup> Paper sizes vary according to region.

Compression			Purpose		
S	Superfine	High Quality	Shoot higher quality images		
	Fine	1	Shoot normal quality images		
	Normal	Normal	Shoot more images		

Movies can be shot with the following resolution.

Resolution				
320	320 x 240 pixels			
160	160 x 120 pixels			





7

# 7 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).

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

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

\* The current setting is displayed.

Use the **→** or **→** button to select an option.

Resolution (Still Images)

Select L, M1, M2 or S.

Resolution (Movies)

Select 320 or 160.

Compression (Excluding Movies)

Select s, or .

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

1

#### 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>\$</b> <sup>A</sup>	Auto	The flash fires automatically as required by the light level.
<b>©</b>	Red-Eye	The flash fires automatically as required by the lighting level, and the red-eye reduction lamp fires each time the main flash fires.
<b>‡</b>	Flash On	The flash fires with every shot.
3	Flash Off	The flash will not fire.
2*	Slow Synchro	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.

	•	4	<b>∗</b> ∆	92	므브
<b>\$</b> <sup>A</sup>	O	O	-	-	-
<b>(</b>	O	O	-	-	-
4	-	O	O	-	Δ
3	O	O	O	0	Δ
2*	-	C	O	-	Δ

- Setting available





1

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

See Selecting a Shooting Mode (p. 53).





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 redeye 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.





- 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.



FUNC.



#### 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**



(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.



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

See Selecting a Shooting Mode (p. 53).







Press the 🗞 button to display 🗐.

#### To cancel continuous shooting

Press the **S** 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.

# **७** 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.



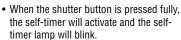


In Movie Mode
Slide the mode switch to •

(Movie).



Press the 🕲 button to display 👪 or



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

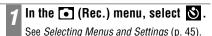


#### To cancel the self-timer

Press the \delta button to display 🔳.

# **Changing the Self-timer Countdown Time**

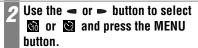












- The display will return to the Shooting screen.
- When is selected, the self-timer sounds and the blinking gets faster 2 seconds before the shutter activates.
- When is selected, the self-timer sounds at the same time as the shutter button is pressed. The shutter activates in 2 seconds.



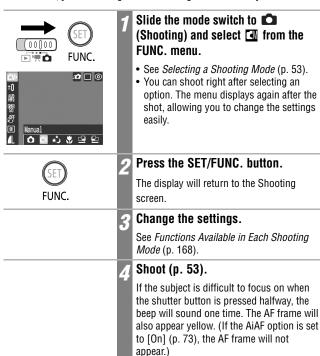
The self-timer sound can be changed with the Selftimer Sound item in the  $\mathbf{I}_{\mathbf{0}}$  (My Camera) menu (p. 142).

#### 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**

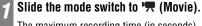
In this mode, you can change various settings and shoot as you wish.



# **™**Shooting a Movie

The resolution can be set to either  $\overline{(320 \times 240)}$  or  $\overline{(360 \times 120)}$  (p. 57).





The maximum recording time (in seconds) is displayed.



# 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.



# 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. (()) or 3 min. (()) (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.



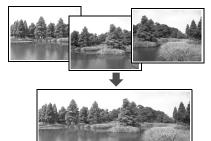
- Although the recording time may not display properly during shooting, the movie will be recorded correctly.
- Recording may stop unexpectedly with certain types of SD cards (slow-recording cards, cards formatted on a different camera or a computer, or cards which have had images recorded and erased 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.

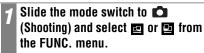
#### Shooting

Images can be shot in two sequences in Stitch Assist.

- Left to right horizontally 3
  - Right to left horizontally







- See Selecting Menus and Settings (p. 45).
- · You can shoot right after selecting an option. The menu displays again after the shot, allowing you to change the settings easilv.





# Press the SET/FUNC. button.

The display will return to the Shooting screen.







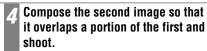


# Shoot the first frame in the sequence.

The exposure and white balance are set and locked with the first image.







- 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.



Repeat the procedure for additional images.

A sequence may contain up to 26 images.



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

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



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**

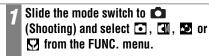
It may be difficult to focus on the following types of subjects. Use the focus lock in these situations.

- 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.







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.

4	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.
 5	Press the shutter button halfway and wait until two beeps sound.
	The focal distance to the object is locked.
\$ 6	Re-aim the camera to compose the shot as desired and press the shutter button fully.

# **Focusing**

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

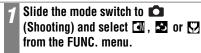
When [AiAF] is set to [On], the AF frame does not appear. When [AiAF] is set to [Off], however, the AF frame will appear.

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.	
	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.

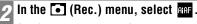






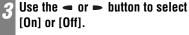
See Selecting a Shooting Mode (p. 53).





See Selecting Menus and Settings (p. 45).





You can shoot right after selecting an option.



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.

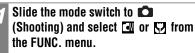
# **Switching between Light Metering Modes**

You can switch between metering modes to shoot.

Ø	Evaluative	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.
	Center- Weighted Average	Averages the light metered from the entire frame, but gives greater weight to the subject matter at the center.
	Spot	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.







See Selecting a Shooting Mode (p. 53).



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.



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.





In Shooting Mode

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

See Selecting a Shooting Mode (p. 53).





Slide the mode switch to 🐂 (Movie).



👤 In the FUNC. menu, select 🖽 \*.

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

\* The current setting is displayed.



# Use the **→** or **→** button to adjust the exposure compensation.

- The settings can be adjusted in 1/3 stops in the range -2 to +2.
- 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.





## Press the SET/FUNC. button.

The display will return to the Shooting screen.

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** 



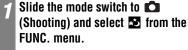
### Overexposure

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**

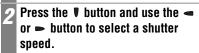
You can set the shutter speed to a slow setting to make dark subjects appear brighter.





See Selecting a Shooting Mode (p. 53).







- The higher the value, the brighter the image and the lower the value, the darker the image.
- You can shoot right after selecting a value.
   The menu displays again after the shot,
   allowing you to change the settings easily.



Press the SET/FUNC. button.

The display will return to the Shooting screen.



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.



- 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.

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





In Shooting Mode

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

See Selecting a Shooting Mode (p. 53).







In Movie Mode

Slide the mode switch to \( \bigcup\_{\text{\tint{\text{\tint{\text{\tint{\text{\tin}\text{\tetx}\text{\tetx{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin\text{\text{\text{\text{\text{\text{\text{\text{\tin}\text{\ti}\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\text{\text{\text{\texi{\text{\texict{\texicl{\text{\texi}\tex{\text{\texi}\tint{\text{\texi}\text{\texi}\text{\texi}\tint{\tex

In the FUNC. menu, select Mi \*.

See Selecting Menus and Settings (p. 45).

\* The current setting is displayed.



- 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.



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.

©FF	Photo Effect Off	Records with no effect.	
Y	Vivid	Emphasizes the contrast and color saturation to record bold colors.	
Ŋ	Neutral	Tones down the contrast and color saturation to record neutral hues.	
ΓŠ	Low Sharpening	Records subjects with softened outlines.	
္ဌာ	Sepia	Records in sepia tones.	
₽₩	B/W	Records in black and white.	





### In Shooting Mode

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

See Selecting a Shooting Mode (p. 53).

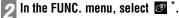




In Movie Mode

Slide the mode switch to 🐂 (Movie).





See Selecting Menus and Settings (p. 45).

\* The current setting is displayed.



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

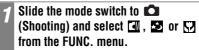
### Press the SET/FUNC. button.

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.





See Selecting a Shooting Mode (p. 53).



🕖 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.



) |

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



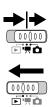
ISO 400 equivalent

# **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).



In the 🚻 (Set up) menu, select 🚟.

See Selecting Menus and Settings (p. 45).



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



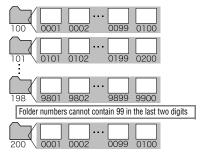
The display will return to the Shooting screen.



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**

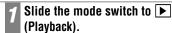
Each folder usually contains up to 100 images.

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**







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



Use the **-** or **-** button to move between the images.

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

# ⊕ Q Magnifying Images



7 Slide the mode switch to (Playback).



Press the ⊕ button.

you can further magnify the image (up to approx. 10 times) by holding down the  $\mathfrak{A}$  button.







of the Magnified Area

### Press the SET button.

SET Q appears on the monitor, indicating you can scroll the magnified image using the ▲, ▼, or ► button to move around the image.

### 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)**



Slide the mode switch to (Playback).



Hold down the SET button.

Selected Image



Nine images appear at a time.



Use the lacktriangle, lacktriangle, or lacktriangle 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.



Slide the mode switch to (Playback).



2 Use the or ► button to select a movie.

Images with a SET 🛣 icon are movies.



SET) 3



Movie Control Volume Level Panel

Press the SET button.

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







# ✓ 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**



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

The movie control panel will display.



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
- KI: 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 **(X)** (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.



7 Slide the mode switch to (Playback).



2 Use the or ► button to select a movie and press the SET button.



2 Switch to the movie editing mode.



- See Operating the movie control panel (p. 92).
  - The movie editing panel and the movie editing bar will display.





4 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



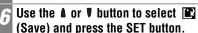




- A preview of the temporarily edited movie clip plays.
- To stop it, press the SET button again.







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







# Use the or ► button to select [New File] or [Overwrite] and press the SFT 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°



Slide the mode switch to Playback).



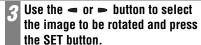
In the 🔼 (Play) menu, select 📵 and press the SET button.

See Selecting Menus and Settings (p. 45).









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



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.



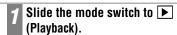
Images can be magnified when rotated (p. 88).

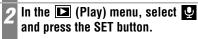
# **Attaching Sound Memos to Images**

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.



Erase all... Auto Play... Print Order





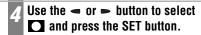
See Selecting Menus and Settings (p. 45).



3 Use the o or ➤ button to select an image and press the SET button.

The sound memo control panel will display.





- The recording starts and the elapsed time is displayed. Speak towards the microphone of the camera.
   Press the SET button again to stop
- 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**







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





Sound Memo Panel



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 11 (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.



Slide the mode switch to | (Playback).







- 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 SFT button.

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

### Stopping Auto Play



### Press the MFNII hutton

Auto Play stops.

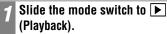


- The display interval may vary for some images.
- Movie images play for the length of time that they were recorded.
- The power saving function is disabled during Auto Play (p. 33).

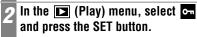
# **Protecting Images**

You can protect important images from accidental erasure.









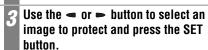
See Selecting Menus and Settings (p. 45).





Protection Icor





- The cicon 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.





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.



# **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.



7 Slide the mode switch to (Playback).









(SET)

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

To exit instead of erasing, select [Cancel].

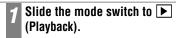
# **Erasing All Images**

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.



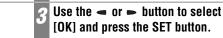




In the 🔼 (Play) menu, select 🌆 and press the SET button.

See Selecting Menus and Settings (p. 45).







To exit instead of erasing, select [Cancel].

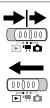


# **Formatting SD Cards**

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.



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



In the 🚹 (Set up) menu, select 📓 and press the SET button.

See Selecting Menus and Settings (p. 45).





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.

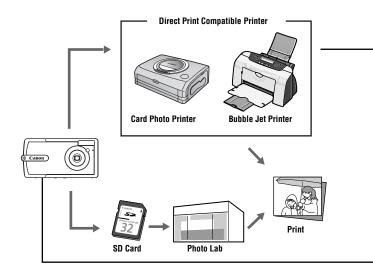


- When the camera is malfunctioning, a corrupted SD card might be the cause. Reformatting the SD card may solve the problem.
- When a non-Canon brand SD card is malfunctioning, reformatting it may solve the problem.
- SD cards formatted in other cameras, computers, or peripheral devices may not operate 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\*1 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\*2 Print Settings), and then take the SD card to a participating photo lab to have them printed out later.

- \* 1 The icon appears for Canon Direct Print compatible CP series printers.
- \* 2 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.

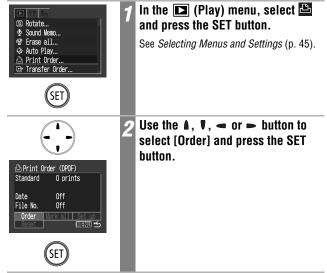
See the *Direct Print User Guide* for instructions on how to select print settings from the printer.

### **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





Number of Print Copies



Selected for an Index Print





### 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)

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.

### 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



(SET)

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

See Selecting Menus and Settings (p. 45).

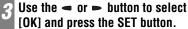




Use the  $\Lambda$ ,  $\nabla$ ,  $\neg$  or  $\rightarrow$  button to select [Mark All] and press the SET button.





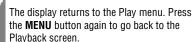


The display returns to the Print Order (DPOF) menu.













- The A 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.

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





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

See Selecting Menus and Settings (p. 45).



Use the ♠, ♥, or button to select [Set up] and press the SET button.







Use the ▲ or V 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].



On Off

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.



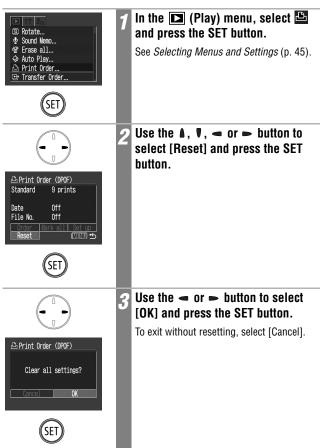
The date prints in the format specified in the Date/Time menu (p. 28).



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.



### **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.



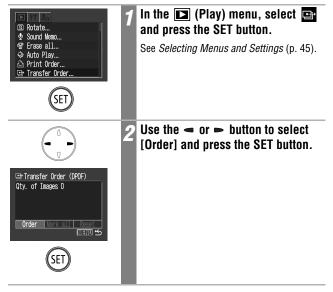
The **A** symbol will display on images that have had transmission settings set by other DPOF-compliant cameras. These settings will be overwritten by those set by your camera.

### **Selecting Images for Transferring**

There are two ways to select images.

- Singly
- · All images on an SD card

#### Single Images







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.



### 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





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.



Press the MENU button.

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



shooting date.

Images are transferred in order from oldest to newest by the

Playback screen.

• A maximum of 998 images can be selected per SD card.

### **Resetting the Image Transfer Settings**

You can cancel the image transfer settings



In the 🔼 (Play) menu, select 🖪 and press the SET button.

See Selecting Menus and Settings (p. 45).



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







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:

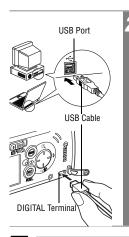
Windows 98 (including Second Edition)/Windows 2000/Windows Me/ Mac OS 9.0 - 9.2)



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.



# 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.



Slide the mode switch to (Playback).



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).
- 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.

Double-click the icon of the drive containing the SD card.

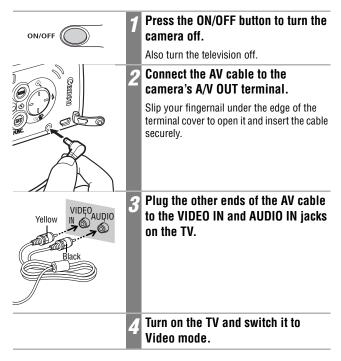
Depending on the operating system, the drive containing the SD card may display automatically.

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.





Slide the mode switch to ○ (Shooting), → (Movie) or ► (Playback).

ON/OFF

🕝 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.

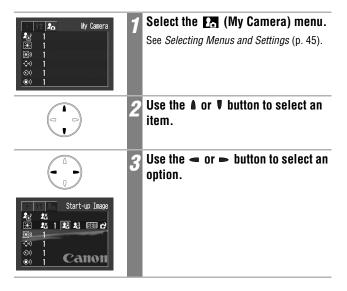
### **Customizing the Camera (My Camera Settings)**

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



### **Changing My Camera Settings**







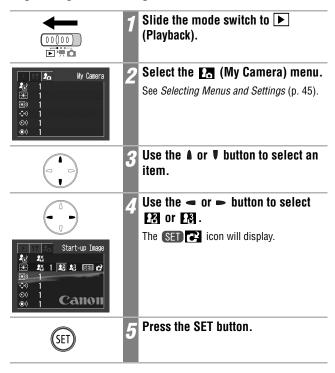
### Press the MENU button.

- . 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 [1] (Set up) menu is set to [On], the beep will not sound even if each sound item is individually set to [1], [2] or [3] (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 23 and 35 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**

















### 😙 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.
- Select sto return to the My Camera Menu without registering.
- Select to play the recorded sound.

### 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

<sup>\*</sup> 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
Shooting Mode    O	Sets the shooting mode.  Auto* Manual  Modern Shutter Macro Stitch Assist (left to right) Stitch Assist (right to left)	p. 53 p. 65 p. 77 p. 61 p. 68
Exposure Compensation  CM  BO  WB  WB  WB  WB  WB  */- (Exp.)  -2 - 1 . 9 . 1 . 2 *	Sets the exposure compensation. -2 to ±0* to +2	p. 75
White Balance  CM ±0  WT  WT  WT  Auto  Auto	Sets the white balance option.  Mato*  Daylight  Cloudy  Influorescent  Fluorescent	p. 79
ISO Speed cN	Sets the sensitivity at which images are recorded.  • AUTO  • 50 *  • 100  • 200  • 400	p. 83

Item/Menu Screen	Options	Reference Page
Photo Effect  ON DO DO  SO DO	Sets the photo effect.  If the photo effet.  If the photo effect.  If the photo effect.  If the photo effet.  If the photo effect.  If the photo effet.  If t	p. 81
Light Metering System  CN 40  M8  Fraluative  CL	Sets the light metering method.  • Sevaluative*  • Center Weighted Average  • Spot	p. 74
Resolution (Stills)  CM +0  MB  EP  2272x1704  MB  MI M2 S 16  Resolution (Movies)  EP  320x240  MB  320x240  MB  323"	Sets the number of pixels used for images.  • ■ (Large) 2272 x 1704pixels*  • ■ (Medium 1) 1600 x 1200 pixels  • ■ (Medium 2) 1024 x 768 pixels  • ■ (Small) 640 x 480 pixels  Sets the number of pixels used for movies.  • ■ 320 x 240 pixels*  • ■ 160 x 120 pixels	p. 57
Compression (Stills)  cM +0 +0  MB  BB  Fine MENU L  MB  16	Sets the relative compression ratio used for images.  Superfine  Fine*  Normal	p. 57

### Rec. Menu

\*Default setting

Item/Menu Screen	Options	Reference Page
Quick Shot  Quick Shot  On Off  AAF On  AF On  DEB On  CO  CO  CO  CO  CO  CO  CO  CO  CO	Sets the Quick Shot option to on or off. • On* • Off	p. 44
AiAF  On  AAF  On  AAF  On  Off  On  SE  ON  S	Sets whether or not the camera automatically selects the AF frame or a fixed center AF frame.  • On*  • Off	p. 73
Self-timer  On	Sets the duration of the self-timer delay.  • 10 seconds*  • 2 seconds	p. 63
AF-assist Beam  AF-assist Beam  AF-assist Beam  AF-assist Beam  AF On	Sets the AF-assist Beam to on or off. • On* • Off	p. 44

Item/Menu Screen	Options	Reference Page
Digital Zoom  Digital Zoom  On  AAF On  Sh  AF On  Digital Zoom  AAF On  Sh  AF ON  Sh	Sets the digital zoom to on or off. • On* • Off	p. 42
Review  CO  CO  CO  CO  CO  CO  CO  CO  CO  C	Sets the duration images display on the LCD monitor after the shutter button releases.  • Off • 2* to 10 seconds	p. 55

### **Play Menu**

Item/Menu Screen	Options	Reference Page
Protect  Protect  Rotate  Sound Memo  Frase all  Auto Play  Print Order	Protects images from accidental erasure.	p. 101
© Rotate  Protect © Rotate  ⊈ Sound Memo  ∦ Frase all  ♠ Auto Play  Print Order	Rotates images clockwise 90° or 270° in the display.	p. 95
▼ Sound Memo  ¬ Protect  ¬ Rotate  ▼ Sound Meno  ¬ Auto Play  Print Order	Adds sound memos to images.	p. 97
Frase all  Protect Rotate Sound Memo Frase all Auto Play Print Order	Deletes all images from an SD card (except for protected images).	p. 103
Nauto Play  Rotate  Sound Memo  Frase all  Auto Play  Print Order  Transfer Order	Plays images automatically one after the other.	p. 100

Item/Menu Screen	Options	Reference Page
© Rotate © Sound Memo © Frase all © Auto Play © Print Order © Transfer Order	Selects images and the number of print copies for output to a direct print compatible printer or photo developing service.	p. 108
Transfer Order  Rotate  Sound Memo  Frase all  Auto Play  Print Order  Transfer Order	Specifies settings for images before downloading to a computer.	p. 114

### Set up Menu

\*Default setting

Item/Menu Screen	Options	Reference Page
■   Mute     Mute	Sets whether or not a beep sounds when the shutter button is pressed or when a menu operation is performed.  See also "How the [Mute] option in the (Set up) Menu and Sound in the (My Camera) Menu Interact" (p. 143).  On  Off* (Still beeps to warn of an error even when set to On.)	_
▶ Volume           □ ₹ ↑           □ ★ 0ff           ▶ Volume           □ Info Display           ♠ Power Saving           ⑤ 09.09. 03 10:00	Adjusts the volume of the start-up sound, operation sound, self-timer sound, shutter sound and playback sound.  The volume cannot be adjusted if [Mute] is set to [On].	p. 32 p. 43 p. 64 p. 92 p. 97
Start-up Vol.  Start-up Vol.  Start-up Vol.	Adjusts the volume of the start-up sound when the camera power is turned on.  • ===================================	p. 32

Item/Menu Screen	Options	Reference Page
Operation Vol.	Adjusts the volume of the operation sound that beeps when any button other than the shutter button is pressed.	-
Selftimer Vol.	Adjusts the volume of the self-timer sound played 2 sec. before the shutter is released.	p. 63
Shutter Volume  Shutter Volume  Shutter Volume  Shutter Volume  Shutter Volume  Shutter Volume  Shutter Volume	Adjusts the volume of the sound played when the shutter releases. The shutter sound does not play when a movie is recording.	p. 43
Playback Vol.  Playback Vol.  Playback Vol.	Adjusts the volume of movie sounds and sound memos.	p. 90 p. 97

Item/Menu Screen	Options	Reference Page
□ Info Display  □ 17↑ □ □	Sets the type of information that appears in the Shooting Info, Review Info and Replay Info options.  Shooting Info: Off*/On Review Info: Off*/Standard/Detailed	p. 35
LCD Brightness  CH Off  Volume.  CH Info bisplay  CH Off  Power Saving  CH Off  DO 1000  DO 1000  DO 1000	Adjusts the LCD brightness of the LCD monitor.  • -7 to 0* to +7 Use the	-
Power Saving    11	Sets the [Auto Power Down] and [Display Off] options.	-
Auto Power Down  in Auto Power Down  in Ori Off  in 1 min.	Sets whether or not the camera automatically powers down after a set period of time elapses without something being pressed.  • On*  • Off	p. 33
Display Off  Sea Display Off  Sea On  This Display Off  Sea On  This Display Off  Sea On  This Display Off	Sets the length of time before the LCD monitor goes off when no camera operation is performed.  • 10 sec. • 1 min.*  • 20 sec. • 2 min.  • 30 sec. • 3 min.	p. 33

Item/Menu Screen	Options	Reference Page
V↑         Date/Time           Info Display         3           Image: 1         1           Image: 2         1           Image: 3         1           Image: 2         1           Image: 3         1           Image: 4         1	Sets the date and time and the date format.	p. 28
Clock Display  The Clock Display  The Clock Display  The Power Saving  The Display  The Displ	Sets the length of time for which the clock displays.  • 0 sec. to 5 sec.* to 10 sec.  • 10 sec. to 30 sec. (in 10-sec. increments)  • 1 min. to 3 min. (in 1-minute increments)	p. 54
Format	Formats (initializes) SD cards.	p. 104
File No. Reset	Sets how file numbers are assigned to images when new SD cards are inserted.  • On • Off*	p. 85

Item/Menu Screen	Options	Reference Page
## Language    11	Sets the language used in menus and messages on the LCD monitor.  • English*  • Italiano  • Deutsch  • Norsk  • Français  • Nederlands  • Español  • Dansk  • Chinese  • Suomi  • Japanese  You can also change the language in playback mode by holding the SET button and pressing the MENU button.	p. 30
₩ Video System    11	Sets the video output signal standard.  NTSC PAL	p. 122

### **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 and 23 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	
Theme    1	Selects a common theme for each My Camera settings item.*1  • 13 Off  • 13 *  • 13	p. 124	
ES Start-up Image  2	Sets the image displayed when the camera power is turned on.  • 13 Off • 11 * • 13	p. 124	
© Start-up Sound	Sets the sound emitted when the camera power is turned on.*1  • [3] Off  • [1] *  • [3]	p. 124	C
Operation Sound	Sets the sound emitted when any button other than the shutter button is pressed.*1  • ** Off  • ** ** • ** ** • ** ** • ** • ** •	p. 124	4

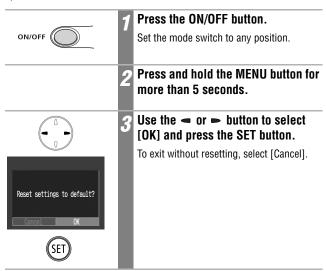
Item/Menu Screen	Options	Reference Page
Selftimer Sound  Selftimer Sound	Sets the sound emitted 2 seconds before the shutter releases in self-timer mode.*1  • 13 Off  • 14  • 13	p. 124
Shutter Sound  2 1 2 1 2 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3	Sets the sound emitted when the shutter button is pressed. There is no shutter sound for movies.*1  • 13 Off • 14* • 13 • 14	p. 124

<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 M (Set up) Menu and Sounds in the M (My Camera) Menu Interact

# **Resetting Settings to Their Default Values**

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





- 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 (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.

Busy	Image is being recorded to, or read from, SD card.
No memory card	You attempted to shoot or play back images without an SD card installed.
Card locked!	The SD card is write-protected.
Cannot record!	You attempted to shoot an image without an SD card installed.
Memory card error!	SD card has experienced an anomaly.
Memory card full	SD card is too full to accommodate more images or print settings.
Naming error!	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.
Change the battery pack	Battery charge is insufficient to operate the camera. Replace it at once with a charged one or recharge the battery pack.
No image	No images recorded on SD card.
Image too large	You attempted to play back an image larger than 4064 x 3048 pixels or with a large file size.
Incompatible JPEG format.	You attempted to play back an incompatible JPEG file.
Corrupted Data	You attempted to play back an image with corrupted data.

RAW	You attempted to play back an image recorded in the RAW format.
Unidentified Image	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.
Cannot magnify!	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.
Cannot rotate	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.
Incompatible WAVE format	A sound memo cannot be added to this image since the format of the existing sound memo is incorrect.
Cannot register this image!	You attempted to add a start-up image that was created with another camera.
Protected!	You attempted to erase a protected image.
Too many marks	Too many images have been marked with print settings or transfer settings. Cannot process any more.
Unselectable image	You attempted to set the print settings for a non-JPEG file.
Ехх	(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.

# **Troubleshooting**

Problem	Cause	Solution
Camera will not operate	Power is not turned on	Press the <b>ON/OFF</b> button for a moment.
	SD card slot/battery cover is open	Confirm that the SD card slot/ battery cover is securely closed.
	Insufficient battery voltage	• Insert a fully charged battery into the camera.
	Poor contact between camera and battery terminals	Wipe the terminals with a clean dry cloth.
Camera will not record	Mode switch is set to ► (Playback)	• Set the mode switch to or
	Flash is charging	Wait until the flash charges. You can press the shutter button when the indicator lights orange.
	SD card is full	Insert a new SD card.     If required, download the images to a computer and erase them from the SD card to make space.
	SD card is not formatted correctly	Format SD card.     → (See Formatting SD Cards (p. 104).)     If reformatting does not work, the SD card logic circuits may be damaged. Consult the nearest Canon Customer Support Help Desk.
	The SD card is write-protected.	• Slide the write protect tab of the SD card upward (p. 25).
Lens will not retract	SD card slot/battery cover was opened with power on	First close the SD card slot/battery cover and then turn the power off.
	SD card slot/battery cover was opened while recording to the SD card (warning signal sounds)	First close the SD card slot/ battery cover and then turn the power off.

Problem	Cause	Solution	
Battery pack consumed quickly	Battery life exceeded if battery pack loses its charge quickly at normal temperature (23 °C/73 °F)	Replace the battery pack with a new one.	
Battery pack will not charge	Battery pack life exceeded	Replace the battery pack with a new one.	
	Poor contact between battery pack and battery charger	Insert battery pack securely into battery charger.     Ensure that battery charger plug is securely plugged into the power outlet.	
Image is blurred or out of focus	Camera moved	Be careful not to move the camera while pressing the shutter button.	
	Autofocus function hampered by obstruction to AF- assist Beam	Be careful not to block the AF- assist Beam with fingers or other items.	
	AF-assist Beam is set to [Off]	• Set the AF-assist Beam to [On] (p. 132).	
	Subject is out of focal range	Ensure there is at least 10 cm (3.9 in.) between the camera lens and subject.     Use the Macro mode to shoot close-ups between 3 and 10 cm (1.2 to 3.9 in.) from the lens.	
	The subject is hard to focus on	Use the focus lock to shoot.     ⇒See Locking the Focus (p. 71).	

Problem	Cause	Solution
Subject in recorded image is too dark	Insufficient light for shooting	Set the flash to on.
	Subject is dark in contrast to the background	Set the exposure compensation to a positive (+) setting or use the spot metering function.
	Subject is too far away for flash to reach	• Shoot within 2.0 m (6.6 ft.) of the subject when using the flash.
Subject in recorded image is too bright	Subject is too close, making the flash too strong	When using the flash, stay at least 30 cm (1.0 ft.) from the subject.
	Subject is bright in contrast to the background	Set the exposure compensation to a negative (-) setting or use the spot metering function.
	Light is shining directly on the subject or reflected off the subject into the camera	Change the shooting angle.
	Flash is set to on	Set the flash to off.
A bar of light (red, purple) appears on the LCD monitor	Subject is too bright	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.)
White dots appear on the image	Light from the flash has reflected off dust particles or insects in the air.	This is a phenomenon that occurs with digital cameras and does not constitute a malfunction.
Flash does not fire	Flash is set to off	Set the flash to on.
Image not showing on TV monitor	Incorrect video system setting	Set the video system to the appropriate setting, NTSC or PAL, for your TV (p. 140).
	Shooting in stitch assist	The output will not appear on a TV in stitch assist. Cancel the stitch assist.

Problem	Cause	Solution
Reading images from SD card is slow	SD card was formatted in another device	Use an SD card formatted in your camera.     ⇒See Formatting SD Cards (p.
Recording images to SD card takes a long time		104).

## **Specifications**

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

## PowerShot SD10 DIGITAL ELPH / DIGITAL IXUS i

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

Continuous Shooting	Approx. 1.6 shots/sec. (Large/Fine mode)		
Self-timer	Activates shutter after an approx. 2-sec./approx. 10-sec. delay		
Recording Media	SD memory card		
File Format	Design rule for camera file system and DPOF compliant		
Image Recording Format	Still images: JPEG (Exif 2.2)*1 Movies: AVI (Image data: Motion JPEG; Audio data: WAVE (monaural))		
Compression	Superfine, Fine, Normal		
Number of Recording Pixels	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.		
Playback Modes	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.		
Display Languages	12 languages available for menus and messages (English, Deutsch, Français, Nederlands, Dansk, Suomi, Italiano, Norsk, Svenska, Español, Chinese and Japanese)		
My Camera Settings	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.		
Interface	USB (mini-B, PTP [Picture Transfer Protocol]), Audio/Video output (NTSC or PAL selectable, monaural audio)		

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

<sup>\*1</sup> 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

<sup>\*</sup> Excludes movie data.

### **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.

<sup>\*</sup> 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.

## **SD Cards and Estimated Capacities**

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

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

## **Image File Sizes (Estimated)**

Resolution		Compression		
		ß		
	L (2272 x 1704)	2202 KB	1116 KB	556 KB
	M1 (1600 x 1200)	1002 KB	558 KB	278 KB
	M2 (1024 x 768)	570 KB 320 KB		170 KB
	s (640 x 480)	249 KB 150 KB 84 KB		
Movies	370 (320 x 240)	330 KB/sec.		
Movies	(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**

Туре	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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## MEM0

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#### **FCC Notice**

(Digital Camera, Model PC1060)

Tested To Comply
With FCC Standards
FOR HOME OR OFFICE USE

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.

				♠ Shooting					
Function		•	4	ゃ	$\square$	<u>.</u>	Movie	Reference Page	
	Large	L	O*	O*	O*	O*	△*	-	- 57
Resolution	Medium 1	M1	O	O	C	O	Δ	_	
	Medium 2	M2	O	O	O	O	Δ	-	
nesululiuli	Small	S	O	O	O	O	Δ	-	p. 57
	Movie	320	_	-	-	-	ı	O*	
	Movie	160	_	-	_	-	ı	0	1
	Superfine	S	O	0	O	0	Δ	-	
Compression	Fine		O*	O*	<b>O</b> *	O*	Δ*	-	p. 57
•	Normal		O	O	O	0	Δ	-	
	Auto	<b>\$</b> ^	O	0	-	_	-	-	p. 59
	Red-Eye Reduction Auto	<b>(</b>	O*	O*	-	-	-	-	
Flash	On	4	_	O	O	-	Δ	-	
•	Off	3	O	0	<b>O</b> *	O	△*	C	
	Slow Synchro	<u>•</u> *	_	C	C	-	Δ	-	
Quick Sho	t	92	O	O	_	-	-	-	p. 44
	Single		O*	<b>O</b> *	<b>O</b> *	<b>O</b> *	△*	<b>O</b> *	-
Shooting	Continuous shooting		-	O	O	O	-	-	p. 62
Method	10-sec. self-timer	<b>C</b> 10	O	O	O	O	Δ	C	p. 63
	2-sec. self-timer	€2	O	O	O	O	Δ	C	
Autofocus	Modes		-	O	O	O	-	-	p. 73
AF-assist	Beam		O	O	O	0	Δ	O	p. 44
Digital Zoom		O	O	O	0	-	_	p. 42	
Exposure Compensation		_	O	_	O	Δ	O	p. 75	
Light Metering Method	Evaluative		_	O*	O	O*	_	_	p. 74
	Center-Weighted Average		-	O	-	O	ı	-	
	Spot			O	_	O	_	_	
White Bala	ance		_	0	O	0	$\triangle$	O	p. 79

	Shooting						
Function			*>		<u> </u>	Movie	Reference Page
Photo Effect	-	0	0	0	Δ	C	p. 81
ISO Speed	_(1)	O	0	0	_(1)	_(1)	p. 83

<sup>\*</sup> Default setting

△Setting can only be selected for the first image.

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

(1) 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).

Setting available