

ENGLISH



CDI-E078

Canon

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PRINTED IN CHINA

Canon DIGITAL CAMERA *PowerShot A300* Camera User Guide

Canon

PowerShot A300

DIGITAL CAMERA

Camera User Guide

DiG!C

- Please read the "Read this First" section (p. 11).
- Please refer to the *Software Starter Guide* for information on installing the software and downloading images.
- Please read the "Quick Start" section on the following page for a simple explanation of shooting, replaying and erasing.
- Please also read the printer user guide included with your Canon printer.



Exif Print



DPOF



DIRECT
PRINT



BUBBLE JET
DIRECT

CDI-E078-010

Quick Start

1

Install the batteries and CF card (p. 18)

Open the CF card slot / battery cover and insert a CF card and batteries.



Open the lens cover and slide it in the direction of the arrow to turn the power on. (p. 26)

The indicator next to the viewfinder starts blinking green.

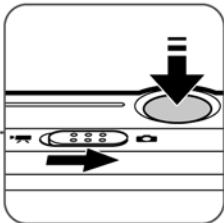
- When the date / time set up menu is displayed, refer to page 23.
- For information about how to change the language, see "Setting the Language" (p. 24).

2

3

Set the shooting mode switch to (Still image) and set the focus. (p. 33)

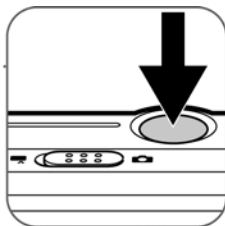
Aim the camera at the subject, and lightly press the shutter button half way. The camera beeps twice when it is focused.



4

Shoot the image (p. 33)

Press the shutter button all the way down. The shutter sound will sound, indicating that the image has been shot.




View the image

The recorded image will be displayed for approximately 3 seconds (p. 34). Refer to “Replaying” section (p. 66) for viewing other images the already shot.

5

To erase

1

Press the  button while the image is displayed.

2

Confirm that [Erase] is selected and press the SET button.



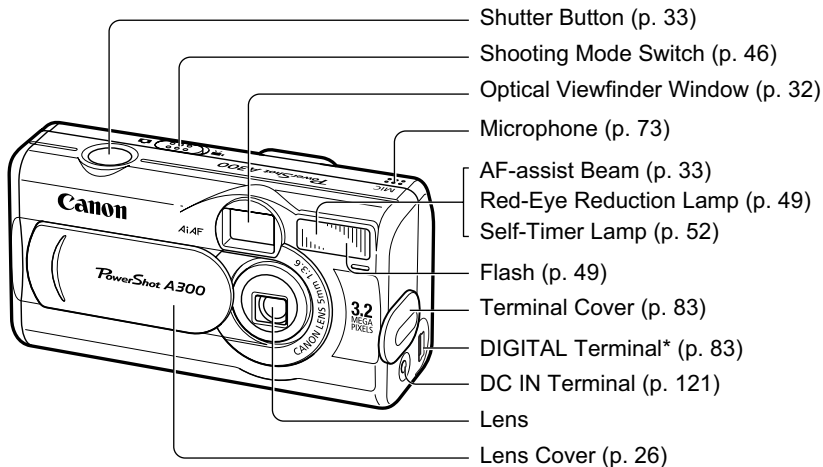
When you have finished shooting photos

- ① Installing the software
- ② Connecting the camera to a computer
- ③ Downloading images to a computer

- ⇒ Software Starter Guide
- ⇒ This guide
- ⇒ Software Starter Guide

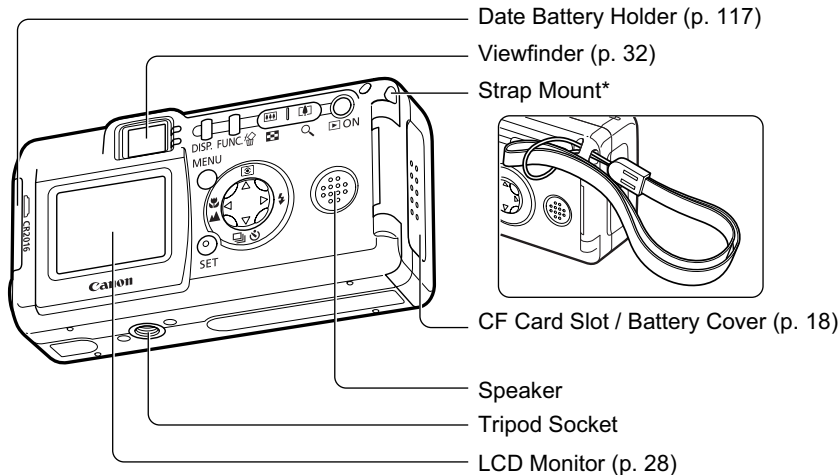
Components Guide

Front View



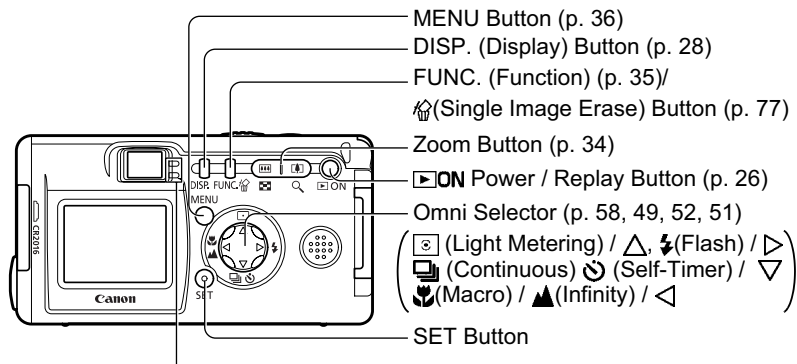
* Computer: USB Interface Cable IFC-300PCU (supplied with camera)
Direct Print Compatible Printer (CP series, optional): Direct Interface Cable DIF-100 (supplied with printer)
Bubble Jet Printer with the direct print function (optional): Please refer to your Bubble Jet Printer user guide.
(For a list of printers that work with this camera, please refer to the *System Map*.)

Back View



* Be careful when carrying the camera by the strap. Don't swing the camera on the strap, and keep the strap and camera body clear of obstacles.

Operation Panel



The indicators light or blink when you open the lens cover or whenever you press the shutter button.

Upper Indicator

Green: Ready to shoot, or ready to communicate with your computer.

Blinking Green: Camera is starting up, reading the CF card, erasing data on the CF card, or transmitting data to your computer.

Orange: Ready to shoot, using the flash.

Blinking Orange: Ready to shoot, (camera shake warning) / charging the flash (at LCD ON).





Lower Indicator

Yellow: Macro / Infinity modes





Blinking Yellow: Focusing difficulty (Although you can press the shutter button, it is recommended to use the focus lock to shoot (p. 56)).

About this Camera User Guide

Symbols Used

Icons on the right end of title bars show the operations mode. As in the example below, the shooting mode should be set to , ,  or .



This mark indicates that you must press either , ,  or  on the omni selector.



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




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

Question? Look here first.

- How do I navigate the menus? Selecting Menus and Settings (p. 35)
- What settings are available under each function?
and
- Will my settings remain in effect even after I've turned the camera off? Functions Available in Each Shooting Mode (p. 142)
- How do I go about printing? About Printing (p. 79)
- What functions are available through the menus?
 - FUNC. Menu (p. 105)
 - Rec.Menu (p. 106)
 - Play Menu (p. 107)
 - Set up Menu (p. 109)
 - My Camera Menu (p. 111)

Table of Contents

: Functions and operations tables.

| | | | |
|--|-----------|---|-----------|
| Quick Start | 2 | Using the LCD Monitor | 28 |
| Components Guide | 4 | Information Displayed on the LCD Monitor | 30 |
| Front View | 4 | Using the Viewfinder | 32 |
| Back View | 5 | Pressing the Shutter Button | 33 |
| Operation Panel | 6 | Using the Digital Zoom | 34 |
| About this Camera User Guide | 7 | Selecting Menu and Settings | 35 |
| Read this First | 11 | Menu Settings and Default Settings | 38 |
| Preparing the Camera | 18 | Customizing the Camera (My Camera Settings) | 41 |
| Installing the Battery and CF Card | 18 | Shooting | 46 |
| Setting the Date / Time | 23 | Selecting the Shooting Mode | 46 |
| Setting the Language | 24 | Changing the Resolution / Compression ... | 47 |
| Basic Functions | 26 | ⚡ Using the Flash | 49 |
| Turning the Power ON / OFF | 26 | 🌸 Macro / ▲ Infinity Modes | 51 |
| | | 📷 Continuous Mode | 52 |
| | | 🕒 Self-Timer | 52 |
| | | Stitch Assist Mode | 53 |

| | | | |
|--|-----------|--|-----------|
| Movie Mode | 55 | Erasing | 77 |
| Using the Focus Lock | 56 | Erasing Single Images | 77 |
| Switching between AF Modes | 57 | Erasing All Images | 77 |
| Switching between Light Metering Modes | 58 | Formatting a CF Card | 78 |
| Adjusting the Exposure | 59 | Printing | 79 |
| Setting the White Balance | 60 | About Printing | 79 |
| Changing the Photo Effect | 63 | Selecting from the Print Order Menu | 81 |
| Changing the ISO Speed | 64 | Connecting the Camera to a Printer | 82 |
| Resetting the File Number | 65 | Printing | 85 |
| Replaying | 66 | Print Settings (Direct Print Function) | 87 |
| Displaying Images Individually | 66 | Print Settings (DPOF Print Settings) | 92 |
| Viewing Images in Sets of Nine | 67 | Printing with DPOF Print Settings | 96 |
| Viewing Movies | 68 | Image Transfer Settings | |
| Editing Movies | 69 | (DPOF Transfer Order) | 98 |
| Rotating Images in the Display | 72 | Setting the Image Transfer | 98 |
| Attaching Sound Memos to Image | 73 | | |
| Auto Play | 75 | | |
| Protecting Images | 76 | | |

● Table of Contents ●

Downloading Images to a Computer 100

- Connecting the camera to a computer via the USB Cable 101
- Downloading directly from a CF card 104

List of Menu Options and Messages 105

- FUNC. Menu 105
- Rec. Menu..... 106
- Play Menu 107
- Set up Menu..... 109
- My Camera Menu 111
- Resetting the Settings to Default 112
- List of Messages..... 113

Appendices 117

- Replacing the Date Battery 117
- Using the Optional Battery Kits..... 118
- Camera Care and Maintenance 122
- Troubleshooting 123

Specifications 128

Index 135

Functions Available in Each Shooting Mode 142

Read this First

Accessories

This digital camera is designed to perform optimally when used with genuine Canon brand digital camera accessories (“Canon Brand Accessories”).

You may use non Canon Brand Accessories with this Digital camera. However, Canon makes no warranties concerning, and is not responsible for damages resulting from, use of non Canon Brand Accessories.

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.

Language Setting

Please see page 24 to change the language setting.

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 CompactFlash™ 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 have read and understood 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, battery, battery charger and optional compact power adapter.

 **WARNINGS**

- **Do not aim the camera directly into the sun or at other intense light sources which 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.
- **Be particularly careful to keep the date battery used in the camera away from children.** Seek medical assistance immediately if a child swallows a battery.
- **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 a 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's power off, remove the camera batteries or unplug the power cord 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.

● Read this First ●

- **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's power off, remove the camera batteries or unplug the power cord 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. In the event that water or other foreign substances enter the interior, immediately turn the camera's power off and remove the camera batteries or unplug the power cord 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 cord 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 cord.** Any of these actions may cause an electrical short circuit, which may lead to fire or electrical shock.

- **Do not handle the power cord if your hands are wet.** Handling it with wet hands may lead to electrical shock. When unplugging the cord, ensure that you hold the solid portion of the plug. Pulling on the flexible portion of the cord may damage or expose the wire and insulation, creating the potential for fires or electrical shocks.

- **Use of power sources not expressly recommended for this equipment may lead to overheating, distortion of the equipment, fire, electrical shock or other hazards.** Use only the recommended power accessories.

- **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, skin or clothing, that comes into contact with the inner contents of a battery.

- **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.

- **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 of batteries not expressly recommended for this equipment may cause explosions or leaks, resulting in fire, injury and damage to the surroundings.** Use only recommended batteries and accessories.

- **If using AA-size NiMH batteries, use only Canon AA-size NiMH batteries and the charger recommended for use with these batteries.** Use of another charger may cause batteries to overheat or deform, posing risk of fire or electric shock.

- **Disconnect the battery charger or compact power adapter from both the camera and power outlet after recharging and when the camera is not in use to avoid fires and other hazards.**

- **The camera terminal of the battery charger cord and the compact power cord 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.

 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 or power the camera.

- **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 cover the flash with your fingers when shooting.** 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.

- **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 CF card and battery or power cord (if connected) from the camera and wait until the moisture evaporates completely before resuming use.

● **Extended Storage**

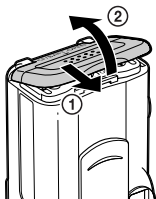
When not using the camera for extended periods of time, remove the batteries from the camera or battery charger and store the equipment in a safe place. Storing the camera for extended periods with batteries installed will run down the battery and may damage the camera.

Preparing the Camera

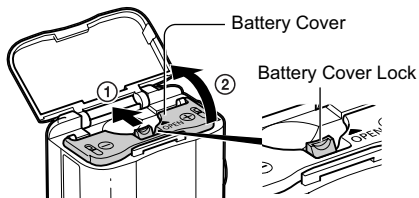
Installing the Battery and CF Card

Insert two (2) AA-size alkaline batteries (included with the camera) or two (2) AA-size NiMH batteries (sold separately) and insert the CF card.

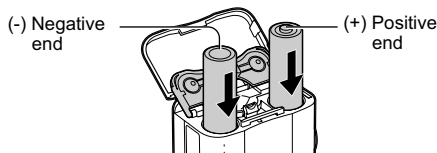
- 1** Be sure that the camera power is off.
- 2** Slide the CF card slot / battery cover and open it.



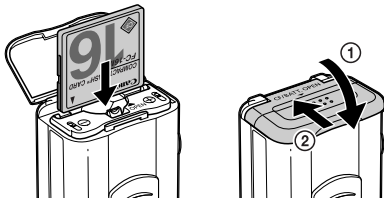
- 3** Press the battery cover lock towards the arrow to open the cover.



- 4** Insert the batteries as shown and close the battery cover.



- 5** Insert the CF card as shown and close the CF card slot / battery cover. Slide the CF card firmly to the end (To release the CF card, hold onto it and remove.).



- When the camera's indicator blinks green, do not turn off the power or open the battery cover. The camera is writing, reading, erasing, or transmitting an image to or from the CF card. Do not perform the following operations as recorded images may be damaged as a result.
 - Turn the camera off
 - Open the CF card slot / battery cover
 - Shake the camera

- Be aware that use of CF cards whose contents have been edited on another camera or with another company's software may cause the camera to operate incorrectly.



- We recommend that you use the optional AC Adapter Kit ACK800 to power the camera during long usage sessions (p. 121).
- The optional battery charger kit lets you use rechargeable NiMH batteries to power the camera (p. 118).
- For information about the Battery and Charger Kit and AA-size rechargeable NiMH batteries, see the *System Map* (separate from this guide).
- For important information, see "Battery Performance" (p. 133) and "CF Cards and Estimated Capacities (Recordable Images)" (p. 132).

● Preparing the Camera ●

Proper Battery Handling

- Use AA-size Alkaline or Canon AA-size NiMH batteries only. Refer to “Using Rechargeable Batteries” (p. 118) for their handling.
 - Never use manganese or lithium batteries, as these battery types may overheat in the camera.
 - Since the performance of alkaline batteries may differ according to brand, the operating time of the batteries you purchase may not be as long as the batteries that came with the camera.
 - Camera operating time may shorten at low temperatures when alkaline batteries are used. Also due to their specifications, alkaline batteries may expire faster than NiMH batteries. If you are using the camera in cold areas or for a long time, we recommend using Canon AA-size NiMH Battery Kit.
 - While it is possible to use AA-size nickel-cadmium batteries, performance is unreliable and their use is not recommended.
 - Never mix unused and partially used batteries. Always load two fresh (or fully recharged) batteries at the same time.
- Be careful to load the batteries with their positive (+) and negative (-) ends in the right direction.
 - Never mix batteries of different types or from different manufacturers. Both batteries should be identical.
 - Before inserting the batteries, wipe the battery terminals well with a dry cloth. Oil from one’s skin or other dirt may cause a considerable reduction in the number of recordable images or reduced usage time.
 - Battery performance deteriorates at low temperatures (especially with alkaline batteries). If you are using the camera in cold areas and batteries are running down faster than they should, you may be able to restore performance by placing batteries in an inner pocket to warm them up prior to use. But be careful that you don’t put the batteries into a pocket together with a metal key chain or other metallic objects, as these objects may cause batteries to short-circuit.
 - If you do not plan to use the camera for a long time, remove the batteries from the camera and store them in a safe place. Batteries may leak and damage the camera if left installed during prolonged periods of non-use.

⚠ WARNINGS

Never use damaged batteries or batteries whose outer seal is completely or partially missing or peeled off, as there is risk that such batteries may leak, overheat, or burst. Always check the seals on store-bought batteries before loading them, as some batteries may come with defective seals. Do not use batteries with defective seals.

Never use batteries that look like this.



Batteries with all or part of the seal (electrical insulation sheath) peeled off.

+



The positive electrode (plus terminal) is flat.

-

-




The negative terminal is correctly formed (protruding from the metal base), but the seal does not extend up over the edge of the metal base.

+

● Preparing the Camera ●

Battery Status Indications

The LCD monitor displays an icon or message to let you know when batteries are low or depleted.

| | |
|---|---|
|  | Batteries are beginning to run low. Replace (or recharge) batteries promptly. If the LCD monitor is off, this icon will appear when you press any of the following buttons: the omni selector, DISP., and FUNC. |
| Change the batteries | Batteries are fully depleted and the camera can no longer operate. Replace the batteries immediately. |

About CF Cards

- CF 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 a CF card.
- Moving a CF card rapidly between temperature extremes will cause condensation to form in the card and lead to a malfunction. To avoid condensation, place the CF 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 CF card, store it at room temperature until the water droplets have evaporated naturally.
- Do not use or store CF cards in the following types of location.
 - Locations subject to dust or sand
 - Locations subject to high humidity and high temperatures

Setting the Date / Time

The Date / Time menu will be displayed when camera power is turned on for the first time or at low date battery power. Perform operations from Step 5 (Replace the date battery when power from the current one is exhausted (p. 117).).

- 1 Turn the power on (p. 26).
- 2 Press the **MENU** button.
The Rec. or Play menu will display.



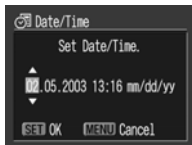
- 3 Press ◀/▶ to select the [SET] (Set up) menu.



- 4 Press ▲/▼ to select [Date / Time] and press the **SET** button.

● Preparing the Camera ●

- 5** Set the date and time.
Press ◀/▶ to select the item to be set.
Press ▲/▼ button to set the date and time.



- 6** Press the **SET** button.
7 Press the **MENU** button.



- The Date/Time cannot be inserted in the actual image even if the Date/Time have been set.
- For printing images with the date on them, refer to page 87.

Setting the Language


Sets the display language for LCD monitor menus and messages.

- 1** Press the **MENU** button.
The Rec. or Play menu will display.



- 2** Press ◀/▶ to select the **TT** (Set up) menu.



- 3** Press ▲/▼ to select  (Language) and press the **SET** button.



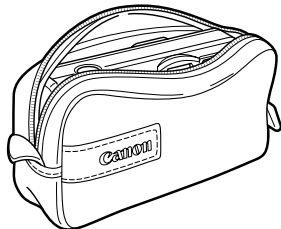
- 4** Set the language.
Press ▲/▼/◀/▶ to select the language.
- 5** Press the **SET** button.
Pressing the **MENU** button without pressing the **SET** button returns to the Set up Menu without changing the language settings.
- 6** Press the **MENU** button.



- In replay mode, you can change the language by holding the **SET** button while you press the **MENU** button. (This function cannot be used while an optional direct print function compatible printer (CP series) or the direct print function compatible Bubble Jet Printer is connected to the camera, or while replaying movies.)

Using the Soft Case (Optional)

Use the soft case for storing the camera, batteries and CF card.



- *Soft case appearance may differ in some regions.*

Basic Functions

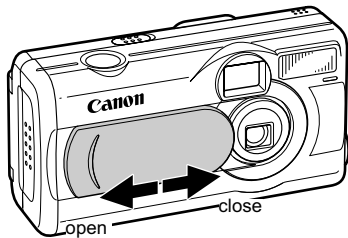
Turning the Power ON / OFF

Shooting Mode

- 1 Open the lens cover.
If you further slide it towards "open", the camera will power up.
The indicator next to the viewfinder starts blinking green.

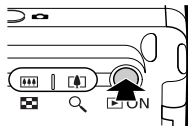
Close the lens cover.


The power goes off.



Replay Mode

- 1 Press the  **ON** button until the image is displayed on the **LCD** monitor.
The camera powers up in Replay mode.



Press the  **ON** button again to turn the power off.



- You will hear a start-up sound and see the start-up image when the power comes on (p. 41,111). (To turn off the start-up sound and start-up image, power up the camera while pressing the **SET** button)
The start-up image does not appear when the LCD monitor is off.

**● Power-saving Function**

This camera comes with a power-saving function.

Shooting Mode

The power will automatically shut off approximately 3 minutes after the last function is accessed.

Replay Mode

The power will automatically shut off approximately 5 minutes after the last function is accessed.

While Connected to a Printer (optional)

The power will automatically shut off approximately 5 minutes after the last camera function is accessed or printer ceases to print an image.

- The power-saving function will not activate while the camera is in auto play mode and is connected to a computer (p. 75).
- The camera's settings can be changed to turn off the power-saving function (p. 109).
- The LCD monitor will go off in approximately 3 minutes if there are no operations performed within that time when the LCD monitor is on, even if the power-saving function is [Off]. (Note: The power will not be turned off at that point) Pressing any button turns the LCD monitor on again.

● To return from power-saving function**Shooting Mode**

Slide the lever of lens cover down.

Replay Mode / While Connecting to a Printer


Press the ON button.

Switching between Shooting / Replay

You can quickly switch the between the Shooting and Replay modes. Images can be replayed and erased immediately after shooting them. Images can also be shot immediately, while images are being replayed.

Shooting Mode

1 Press the ON button to switch to Replay mode.

Press the ON button again or press the shutter button halfway to return to the Shooting mode.

Replay Mode

1 Open the lens cover to switch to Shooting mode.

Using the LCD Monitor

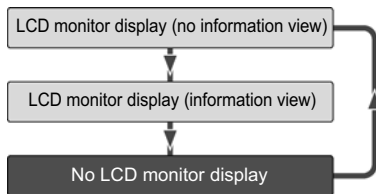
Use the LCD monitor for shooting images, whilst checking images, for menu operations and replaying images.






- The image in the LCD monitor may darken when the monitor is used under sunlight or other strong lighting. This is not a defect.

Shooting Mode

The display changes as shown in the following diagram when the DISP. button is pressed.

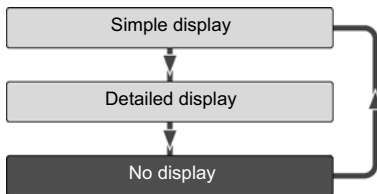


- The On / Off setting of the LCD monitor display mode is memorized when the camera is turned off. When the camera is turned on again it assumes the last mode. However, when the LCD monitor is turned on and the “Change the Batteries” message appears, the LCD monitor may not automatically turn on the next time the camera is started.
- When the LCD monitor is set to On (no information display) or Off, if you wish to change the shooting settings, shooting information will appear for approximately 6 seconds (depending on the camera settings, this may not be displayed).
- Setting the Shooting mode to ,  or  turns the LCD monitor on regardless of whether it is set to On or Off.

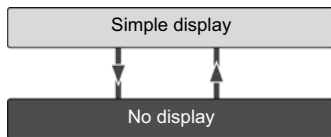
Replay Mode

Press the **▶ON** button to turn the LCD monitor on. The display changes when the DISP. button is pressed.

Single Image Replay

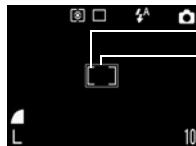


Index Replay (9 images)



Information Displayed on the LCD Monitor

Shooting Mode



Spot metering frame
 AF Frame
 Number of recordable images or recordable time for movies (sec.)

| | | |
|-----------------------|------------|-------|
| Shooting Mode | | p. 46 |
| Exposure Compensation | -2 +2 | p. 59 |
| White Balance | | p. 60 |
| ISO Speed | | p. 64 |
| Photo Effect | | p. 63 |
| Compression | | p. 47 |
| Resolution | | p. 47 |
| Flash | | p. 49 |
| Macro / Infinity | | p. 51 |
| Shooting Method | | p. 52 |
| Light Metering Mode | | p. 58 |

| | | |
|-----------------------|---------------------------------------|-------|
| Movie Recording Mode | ● (red) | p. 55 |
| Digital Zoom Setting* | 1.3x 1.6x 2.0x 2.5x 3.2x 4.0x 5.1x | p. 34 |
| Camera Shake Warning | | p. 30 |
| Low Battery | | p. 22 |

* Displayed during digital zoom.

The flash, continuous shoot, self-timer, macro, infinity, and light metering can be set while the shaded information is displayed. Press the DISP. or the omni selector when information is not displayed.



- Set the flash to On or affix the camera to a tripod when the upper indicator blinks orange and the camera shake warning icon () appears in the LCD monitor after the metering preparations are complete.

Replay Mode (Simple Display)

The following information is displayed for the Simple Display.

- File no. •Image no. (Replay image no. / total)
- Shooting date / time •Compression (
- Resolution (**L** **M1** **M2** **S**)
- Movie (**AVI**) •Protection status ()

Replay Mode (Detailed Display)

The following information is also displayed for the Detailed Display.

| | | |
|-----------------------|--------------------|-------|
| Shooting Mode | | p. 46 |
| Exposure Compensation | -2 ... ±0 ... +2 | p. 59 |
| White Balance | | p. 60 |
| ISO Speed | ISO 50 100 200 400 | p. 64 |
| Photo Effect | | p. 63 |
| Resolution (Movies) | | p. 47 |
| Flash | | p. 49 |
| Metering Mode | | p. 58 |
| Macro / Infinity | | p. 51 |

The recording time for movies is also displayed.

The following information may be displayed, depending on the image.

- Sound file (WAVE file) is attached.
- An audio file other than a wave file, or a file with unrecognized format, is attached.
- A JPEG file not supported by “Design rule for Camera File system” standards.
- RAW file format
- Unrecognizable file formats

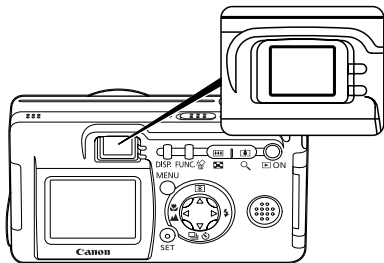


- Please note that image information recorded by this camera may not display correctly on other cameras and image information recorded by other cameras may not display correctly on this camera.

Using the Viewfinder

You can reduce power consumption by turning off the LCD monitor and shooting images with the viewfinder.

- 1 Align the subject with the center of the optical viewfinder and shoot.



About the AF 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 (p. 57).

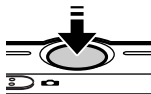
Image Seen in Viewfinder vs. Recorded Image

- Please note that the actual image may differ from the image seen in the optical viewfinder due to the physical separation between the viewfinder and lens. This is called the parallax phenomenon and is more noticeable the closer the subject is to the lens. In some cases, portions of images shot up close that appear in the viewfinder will not appear in the recorded image. Please use the LCD monitor to shoot images up close.

Pressing the Shutter Button

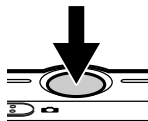
You can press the shutter button all the way down or halfway.

Pressing Halfway



Automatically sets the exposure, focus and white balance. The camera beeps twice when settings are completed, then the upper indicator lights green (orange when the flash has been selected (p. 6).).

Pressing Fully



The shutter sounds once, and the image is shot. The upper indicator blinks green while the image is being recorded to the CF card. (p. 6)



- You cannot shoot an image while the flash is charging up.

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. 106). If animals are your subject, turn off the beam when shooting in the dark to avoid startling them.
 - If the AF-assist beam is turned off, it may become more difficult for the camera to focus.
 - Even if the AF-assist beam is turned off, if the flash is on red eye reduction auto or is in slow synchro mode, the red eye reduction indicator may emit.

● Basic Functions ●

Reviewing an Image Right After Shooting

The images that have been shot will be displayed for approximately 3 to 10 seconds*, even when the shutter button is released right after the image has been taken. You can also check the image with the following steps.

- * The display time can be changed (p. 106).
- Keeping the shutter button pressed.
- Pressing the SET button while the image is displayed in the LCD monitor.
Press the shutter button halfway again to stop displaying it and to continue shooting.



- You can erase the images while they are displayed (p. 77).

Using the Digital Zoom

When the LCD monitor is on, you can digitally zoom in on a subject. Images can be zoomed up to approximately 5.1 times.

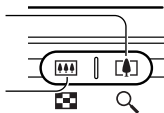
Adjust Zoom



Button: The subject will be enlarged.



Button: The subject will be reduced.



- The digital zoom can be set to [Off] (p. 106).
- The image will appear grainier as the image is digitally zoomed.



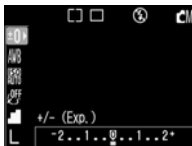
- Digital zoom is unavailable in some modes (p. 143).

Selecting Menus and Settings

Use the menus as shown below to operate the camera's basic settings used for shooting and replaying. You can carry out the settings by either using the **FUNC.** button or the **MENU** button.

Settings with the FUNC. Button (shooting mode only)

- 1 Press the **FUNC.** button.



- Icons enabling you to change the settings will appear on the left of the LCD monitor.
- The icons displayed indicate the current settings.

- 2 Press **▲/▼** to select a menu item.

- 3 Press **◀/▶** to select the settings you wish to set.

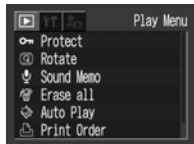


- 4 Press the **FUNC.** button. The menu will close. You can shoot with the selected settings if you press the shutter button immediately after step 3.

● Basic Functions ●

Settings with the MENU button



- 1** Press the **MENU** button.
The menu appears.







In      modes

In  mode

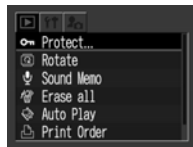
- Differs slightly depending on the shooting mode.

- 2** Press  /  to select the Rec. / Play, Set up or My Camera menu.

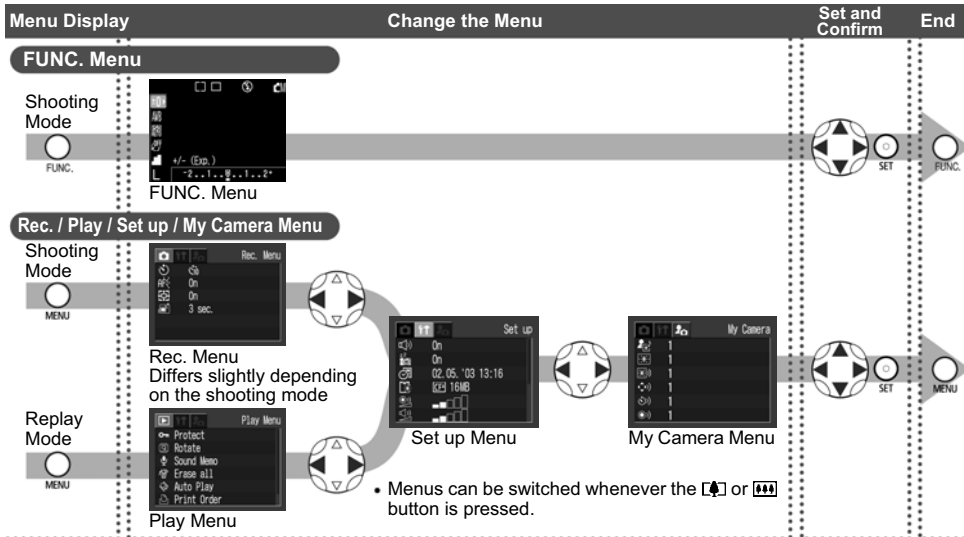
- 3** Press  /  to select a menu item.

- 4** Press  /  to select the settings you wish to set.

For items with [...] next to them, click the **SET** button and carry out the settings from the next displayed menu. Once the settings are complete, press the **SET** button again and confirm these settings.



- 5** Press the **MENU** button.
In the shooting mode, you can also close the menu by pressing the shutter button halfway.



Menu Settings and Default Settings

This chart shows the options for each menu and the default settings.

Items set with the FUNC. button

*Default Settings












| Menu Items | Available Settings | Reference Pages |
|-----------------------|--|-----------------|
| Exposure Compensation | -2 – ±0* – +2 | p. 59 |
| White Balance | * / / / / / / / | p. 60 |
| ISO Speed | AUTO / 50* / 100 / 200 / 400 | p. 64 |
| Photo Effect | * / / / / / | p. 63 |
| Compression | / * / | p. 47 |
| Resolution | (Still picture) L * / M1 / M2 / S (Movie) / * / | p. 47 |

Items set with the MENU button

| | Menu Items | Available Settings | Reference Pages |
|--------------------|----------------|---|-----------------|
| Rec. Menu (red) | AiAF | On* / Off | p. 57 |
| | Self-timer | 10sec* / 2sec | p. 52 |
| | AF-assist Beam | On* / Off | p. 106 |
| | Digital Zoom | On* / Off | p. 34 |
| | Review | Off / 3sec* – 10sec (settings in seconds) | p. 34 |

Items set with the MENU button

*Default Settings

| | Menu Items | Available Settings | Reference Pages |
|----------------------|---|--|-----------------|
| Set up Menu (Yellow) |  Beep | On* / Off | p. 109 |
| |  Auto Power Down | On* / Off | p. 109 |
| |  Date / Time | Sets the date / time | p. 23 |
| |  Format | Formats the CF card | p. 78 |
| |  Shutter Volume | Off / 1 / 2* / 3 / 4 / 5 | p. 109 |
| |  Playback Vol. | Off / 1 / 2* / 3 / 4 / 5 | p. 109 |
| |  Start-up Vol. | Off / 1 / 2* / 3 / 4 / 5 | p. 110 |
| |  Operation Vol. | Off / 1 / 2* / 3 / 4 / 5 | p. 110 |
| |  Selftimer Vol. | Off / 1 / 2* / 3 / 4 / 5 | p. 110 |
| |  File No. Reset | On / Off* | p. 110 |
| |  Language | English* / Deutsch / Français / Nederlands / Dansk / Suomi / Italiano / Norsk / Svenska / Español / Chinese / Japanese | p. 24 |

● Basic Functions ●

Items set with the MENU button

*Default Settings

| | Menu Items | Available Settings | Reference Pages |
|-------------------------|-----------------|-----------------------------------|-----------------|
| Play Menu (Blue) | Protect | Turns image protection On and Off | p. 76 |
| | Rotate | Rotates the displayed the image | p. 72 |
| | Sound Memo | Attaches a sound memo to images | p. 73 |
| | Erase All | Erases all images | p. 77 |
| | Auto Play | Automatically replays images | p. 75 |
| | Print Order | Sets the print order | p. 92 |
| | Transfer Order | Sets the transfer settings | p. 98 |
| My Camera Menu (Purple) | Theme | / 1 * / / | p. 111 |
| | Start-up Image | / 1 * / / | p. 111 |
| | Start-up Sound | / 1 * / / | p. 111 |
| | Operation Sound | / 1 * / / | p. 111 |
| | Selftimer Sound | / 1 * / / | p. 111 |
| | Shutter Sound | / 1 * / / | p. 111 |

- Some menu items are unavailable in certain shooting modes.
- In My Camera Menu's () and (), you can set up your favorite picture and sound. For details, refer to "Registering My Camera Settings (p. 43)", or to your *Software Starter Guide*.
- The default for all of the settings changed by the menu and button operations except for [Date / Time] and [Language] can be restored all at once (p. 112).

Customizing the Camera (My Camera Settings)

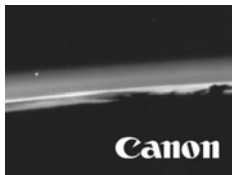
My Camera allows you to customize the start-up image and start-up, shutter, operation and self-timer sounds. Each menu item has three choices.

Example: Start-up image

1



2



3



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

● Basic Functions ●

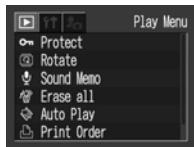
Changing My Camera Settings

- 1** Press the **MENU** button.
The menu will appear.






In      mode





- Differs slightly depending on the shooting mode.



In  mode

- 2** Select a [ (My Camera)] menu with  / .



- 3** Select a menu item with  / , and the contents you wish to set with  / .

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

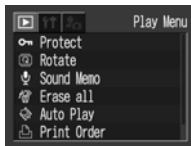


- If you select [Theme] in step 3, you can select a consistent theme for each of the My Camera settings.
- If the Beep option in the Set up menu is set to [On], the beep sounds even if each sound item is individually set to [Off] in the My Camera menu.

Registering My Camera Settings

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

- 1 Press the **ON** button.
- 2 Press the **MENU** button.
The menu will appear.



- 3 Select a [**2**] (My Camera) menu with **◀/▶**.



- 4 Select a menu item with **▲/▼**, and choose **2** and **3** with **◀/▶**.
DISP will be displayed.



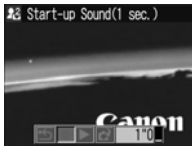
- 5 Press the **DISP.** button.
Start-up Image → Go to step 6
Start-up Sound, Shutter Sound, Operation Sound, and Self-Timer Sound → Go to step 7

● Basic Functions ●

- 6** Select the image you wish to register with ◀/▶, and press the **SET** button. Proceed to step 9



- 7** Select (Record) with ◀/▶, and press the **SET** button.



Recording will start.
Once the time is up, recording will automatically stop.
Start-up Sound: 1 second, Operation Sound: 0.3 second,
Self-Timer Sound: 2 seconds, Shutter Sound: 0.3 second

- 8** Select (Record) with ◀/▶, and press the **SET** button.

- 9** Select OK with ◀/▶, and press the **SET** button.



- 10** Press the **MENU** button.



- Sounds recorded with the movie and sound memo functions (p. 73) cannot be added as My Camera settings.
- When you register new My Camera settings, the previously registered settings are erased.

File Format of My Camera Settings

My Camera settings should conform to the below file formats. However, CF 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
 - Image Size: 320 x 240 pixels
 - File Capacity: 20KB or less

- Start-up, Operation, Self-timer and Shutter Sounds
 - Recording Format: WAVE (monaural)
 - Quantization Bits: 8bit
 - Sampling Frequency: 11.025kHz or 8.000kHz

- Recording Time

| | 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 |
| Self-timer Sound | 2.0 sec. or less | 2.0 sec. or less |
| Shutter Sound | 0.3 sec. or less | 0.4 sec. or less |

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

As example of this function is to record "Say Cheese", as the self-timer sound so 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 Settings files.

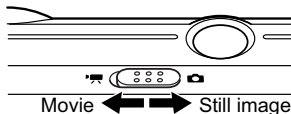
Shooting

Selecting the Shooting Mode


The following modes are available with this camera.

| | | |
|---|---------------|--|
|  | Auto | The camera automatically makes most of the settings for you. |
|  | Manual | You can manually adjust the exposure, white balance, and other settings before shooting. |
|  | Stitch Assist | For shooting panorama composition images |
|  | Movie | For shooting movies |

The details on settings for each mode are kept even if the shooting mode is changed. When the power is turned off, the settings are also retained for certain shooting modes, but not for others (p. 142).




Selecting , , or

- 1 Set the shooting mode switch to . The shooting mode selected is the same as when the camera was last turned off.
- 2 Press the **SET** button.



- 3 Select the shooting mode with  / , and press the **SET** button.

Selecting

- 1 Set the shooting mode switch to . This will switch to movie mode.

Changing the Resolution / Compression



You can change the resolution and compression (excluding movies) settings to suit your purpose.

| | Resolution | | Purpose |
|----------------------|--------------------|--------------------------|---|
| L (Large) | 2048 x 1536 pixels | Large ↑ ↓ Small | <ul style="list-style-type: none"> • Print A4 size* 210 x 297 mm (8.3 x 11.7 in.) or larger prints • Print letter size 216 x 279 mm (8.5 x 11 in.) or larger prints |
| M1 (Medium 1) | 1600 x 1200 pixels | | <ul style="list-style-type: none"> • Print postcard size 148 x 100 mm (6 x 4 in.) prints • Print L size 119 x 89 mm (4.7 x 3.5 in.) prints |
| M2 (Medium 2) | 1024 x 768 pixels | | <ul style="list-style-type: none"> • Print card size 86 x 54 mm (3.4 x 2.1 in.) prints |
| S (Small) | 640 x 480 pixels | | <ul style="list-style-type: none"> • Send images via e-mail • Shoot more images |

* Paper sizes vary according to region.





| | Compression | | Purpose |
|----------|-------------|----------------------------------|---|
| s | Superfine | High Quality ↑ ↓ Normal | <ul style="list-style-type: none"> • Shoot higher quality images |
| f | Fine | | <ul style="list-style-type: none"> • Shoot normal quality images |
| n | Normal | | <ul style="list-style-type: none"> • Shoot more images |

• Movies can be shot with the following resolution.

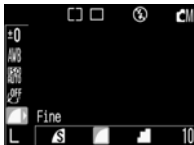
| | Resolution |
|------------|------------------|
| 640 | 640 x 480 pixels |
| 320 | 320 x 240 pixels |
| 160 | 160 x 120 pixels |

● Shooting ●



1 Press the **FUNC.** button.

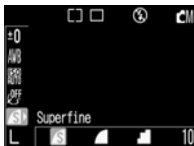
2 Select * or * with /.

*The current setting is displayed.



Example: Compression

3 Select the compression or resolution with /.



Example: Compression

4 Press the **FUNC.** button.



-
- See "Functions Available in Each Shooting Mode" (p. 142).
 - For information on necessary space per image (approximate), types of CF cards and the number of images per card see, "Specifications" (p. 132, 133).
-

⚡ Using the Flash



| | | |
|--|-------------------------|---|
| | Auto | The flash fires automatically as required by the light level. |
| | Red-Eye Reduction, Auto | The flash may fire automatically as required by the light level. The red-eye reduction indicator fires with each shot. |
| | Flash On | The flash will fire. |
| | Flash Off | The flash will not fire. |
| | 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 indicator fires with each shot. Use of a tripod is recommended. |

- 1** Press (▶ on the omni selector) as necessary to select the desired flash mode.

| | ○ | ○ | — | — |
|--|---|---|---|---|
| | ○ | ○ | — | — |
| | — | ○ | △ | △ |
| | ○ | ○ | △ | △ |
| | — | ○ | △ | △ |

○ : Available

△ : Available only for the first image







- 2** Shoot the image.

The flash will fire when the indicator lights orange. (It won't fire if set to)

Shots cannot be taken while the flash is charging.

● Shooting ●






- If the flash is used in macro mode, the light may not be controlled correctly. In this case, set a higher ISO sensitivity or use other lightings instead of using the flash.
- When shooting with a high ISO sensitivity and using the built-in flash, there is more of a chance of overexposure the closer you are to the subject.
- Please note that a slow shutter speed will be selected in dark places when the flash is set to off or slow synchro. Be careful to avoid camera shake under these conditions.
- Shooting in  Mode
Be careful to hold the camera still to avoid camera shake.
- Shooting in  or  Mode
Fix the camera to a tripod since the shutter speed will be slower than in the  mode.
If an image is dark in  mode, reshooting in  mode will make it brighter.



- The flash may take approximately 10 seconds to charge. The LCD monitor, if it is on, will go off after the indicator flashes orange while recharging. The LCD monitor will come back on after the indicator lights a steady orange when recharging is completed.

Recharging time may vary according to shooting conditions and battery charge levels.

- The flash fires twice. A preparatory pre-flash is followed by the main flash. The exposure readings obtained from the subject with the pre-flash are used to set the optimal flash intensity for the main flash, which is used to shoot the image.
- Red-Eye Reduction
Light reflecting back from the eyes may appear red when the flash is used in dark places. Use the auto red-eye reduction* for these situations. For this mode to be effective, the subject must be looking right at the red-eye reduction indicator. Try asking them to look at the red-eye indicator. Even better results can be obtained by increasing the lighting in indoor settings or coming closer to the subject.
The shutter will not activate for approximately 1 second after the red-eye reduction indicator fires, even when the shutter button is pressed all the way down in order to improve the effect. If you want to have more immediate shutter response, set the flash setting to either  or  or .

Macro / ▲ Infinity Modes



| | | |
|--|----------|---|
| | Macro | Use this mode when the distance from the lens tip to the subject is 5 to 20 cm (2 to 7.9 in.). |
| | Infinity | Use this mode to shoot landscapes. Also use this mode for compositions combining both near and distant objects. |

1 Press the (◀ on the omni selector) to display or .

| | | | | | |
|--|---|---|---|---|---|
| | | | | | |
| | ○ | ○ | △ | △ | ○ |
| | — | ○ | △ | △ | ○ |

○ : Available

△ : Available only for the first image

2 Shoot the image.



- If the flash is used in macro mode, the light may not be controlled correctly. In this case, set a higher ISO sensitivity or use other lightings instead of using the flash.






- Use the LCD monitor for shooting in macro mode. Subjects framed in the viewfinder when in macro mode may not appear in the final image as intended due to the parallax phenomenon.
- The recordable area at the closest focal distance is approximately 56 x 42 mm (2.2 x 1.7 in.).

Continuous Mode



The camera shoots continuously at approximately 2.2 frames per second* (Large/Fine, LCD monitor off) while the shutter button is held down.

* The figures reflect Canon's testing standard. The actual figures will vary according to the shooting conditions and settings.

1 Press the  /  (▼ on the omni selector) as necessary so that  appears on the LCD monitor.





2 Shoot the image.



- If internal memory becomes full, intervals between shots may lengthen slightly.
- If you are using the flash, shots are taken more slowly to allow time for the flash to recharge.

Self-Timer



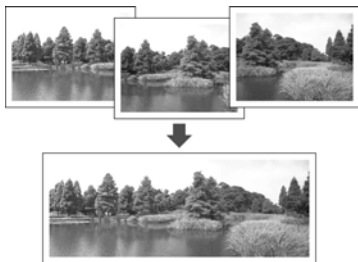
1 Press the  /  (▼ on the omni selector) as necessary so that  or  appears on the LCD monitor.

2 Shoot the image.



- The self-timer starts when the shutter button is pressed and the self-timer indicator blinks. The image will be shot after the number of seconds set in the menu have elapsed (p. 106). The blinking will speed up approximately 2 seconds before the shutter activates.

Stitch Assist Mode

Use this mode when taking shots that you want to combine into a panorama. To create the panorama itself, you must stitch the images together on your computer.



There are two stitch assist modes based on the shooting direction as shown in the following.

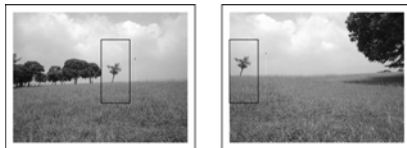
| | | |
|---|------------|---|
|  | Left→right | Shoots horizontally from left to right. |
|  | Right→left | Shoots horizontally from right to left. |



- To create the panorama at your computer, use the PhotoStitch software that came with your camera.

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 to 50 % of the adjoining image. Try to keep the vertical misalignment to within 10 % of the image height.
- Do not include moving items in the overlap.

● Shooting ●

- Do not try to stitch images that include both distant and close items. Objects may appear warped or doubled up.
- Make the brightness in each image consistent. The final image will appear unnatural if the difference in brightness is too great.
- Pan (swivel) the camera to take successive shots.
- To shoot close-ups, slide the camera over the subject, keeping it parallel as you move.

Shooting




- 1** Shoot the first image.
- 2** Shoot the next image so that it overlaps the first image.
 - Minor discrepancies in the overlapping portions can be corrected when the images are stitched together.
 - Press the ◀/▶ to return to a previous image that you want to reshoot.
- 3** Shoot the next images in the same way.

You can shoot up to 26 images.
- 4** Press the **SET** button to end the shooting.



- See "Functions Available in Each Shooting Mode" (p. 142).
- The settings for the first image shot are applied for all subsequent images.




Movie Mode

The resolution can be set to  (640 x 480)],  (320 x 240)], or  (160 x 120)]. (p. 47)

1 Press the shutter button all the way to start recording movie images.

- The recording time (in seconds) and a red circle appear in the LCD monitor during shooting.
- During the shooting, sound is simultaneously recorded.

2 Press the shutter button all the way again to stop the recording.

- The maximum length of a movie clip (approx. 15 frames/sec) is : approx. 30 seconds*, : approx. 3 minutes, : approx. 3 minutes (According to Canon's standardized tests).
* Using an optional Canon FC-256 MH CF Card (not sold in some regions). When using the CF card supplied with the camera. The maximum length is approximately 14 sec. These times may vary with the subject and shooting conditions. Recording will automatically stop when the maximum is reached or when the CF card runs out of free capacity.



- Please be careful not to touch the microphone while shooting.
- The exposure, focus and white balance are fixed to the settings value (of the first frame) when shooting starts.
- After shooting, the green indicator blinks while recording to the CF card. You cannot shoot images at this time.



- See "Functions Available in Each Shooting Mode" (p. 142).
- Sound is recorded monaurally.
- During the shooting of a movie clip, the shutter sound will not be heard.
- QuickTime 3.0 or later is required to replay 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.

Using the Focus Lock





The following types of subjects may not be suited to autofocus photography. Use the focus lock in these situations.

- Subjects with extremely low contrast to the surroundings
- Subjects with extremely bright objects at the center of the composition
- Subjects that are moving quickly
- Subjects through glass
Try to shoot as close to the glass as possible to reduce the chances of light reflecting back off the glass.

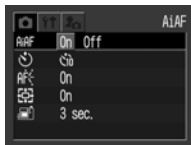
- 1** Aim the camera so that a subject at the same focal distance as the main subject is centered in the viewfinder or in the AF frame displayed on the LCD monitor.
- 2** Press and hold the shutter button halfway, and wait until the camera beeps twice.
- 3** Re-aim the camera direction to compose the shot as desired and press the shutter button all the way.

Switching between AF Modes

While the AF function is set to AiAF, you can change it to the center AF frame.

| | | |
|---|-----|--|
|  | On | The camera automatically selects an AF frame from five AF frames to focus on according to the shooting conditions. |
|  | Off | Focus is selected for the center of the AF frame. This helps you to make sure that the focus is exactly where you want it. |

- 1 In the [Rec.] menu, select **AiAF** (AiAF).
See "Selecting Menus and Settings" (p. 35).






- 2 Press **◀/▶** to select [On] or [Off].
- 3 Press the **MENU** button.
Press the shutter button instead of the **MENU** button to shoot an image with the set AF mode.







- 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.

| | | |
|---|---------------------------|--|
|  | Evaluative Light Metering | Appropriate for standard shooting conditions, including backlit scenes. The camera divides images into several zones for light metering. It evaluates the 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 Averaging | Averages the light metered from the entire frame, but gives greater weight to the subject matter at the center. |
|  | Spot AE Point | Meters the area within the spot AE point at the center of the LCD monitor. Use this mode when the subject is backlit or surrounded by strong light. |

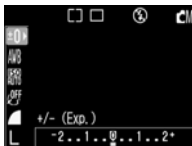
- 1 Press  (▲ on the omni selector) as necessary to display either , , or .
- 2 Shoot the image.

Adjusting the Exposure

If you are shooting against a bright background or strong backlight, you may need to correct the exposure so that the subject doesn't come out too dark.

- 1 Press the **FUNC.** button and select **±0*** with **▲/▼**.

*The current settings is displayed.



- 2 Press **◀/▶** to adjust the compensation.

- The settings can be adjusted in 1/3 steps in the range -2 to +2.
- You can check the results of the compensation by viewing the image on the LCD monitor when it is on.
- You can shoot another image immediately after making a setting. You can check the result of your setting as the image will be displayed again after shooting.








- 3 Press the **FUNC.** button.

If you wish to turn compensation off, set the compensation value to 0.

Setting the White Balance




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

| | | |
|---|---------------|---|
|  | Auto | The camera sets the white balance automatically according to shooting conditions. |
|  | Daylight | Use when shooting outdoors in sunlight on a clear day. |
|  | Cloudy | Use when shooting outdoors and the sunlight is not enough such as under cloudy skies, in shade or at dusk. |
|  | Tungsten | For recording under tungsten and bulb-type 3-wavelength fluorescent lighting. |
|  | Fluorescent | For recording under warm-white, cool-white or warm-white (3-wavelength) fluorescent lighting. |
|  | Fluorescent H | For recording under daylight fluorescent, or daylight fluorescent-type (3-wavelength) fluorescent lighting. |
|  | Custom | For setting a custom value with a white sheet of paper, etc., to obtain the optimal white balance for the conditions. |

1 Press the **FUNC.** button and select **AWB*** with **▲/▼**.



*The current settings is displayed.

2 Press **◀/▶** to select white balance.

- See page 61 for the  option.
- A shot can be taken immediately by pressing the shutter button. The menu will reappear after the shot, allowing you to adjust the setting.

3 Press the **FUNC.** button.



- The white balance cannot be set when  (sepia) or  (B / W) photo effect is selected.

Setting a Custom White Balance

You can set a custom white balance to obtain the optimal setting for the shooting conditions by having the camera evaluate an object, such as a piece of white paper or cloth or a photo-quality gray card that you wish to establish as the standard white color.

- 1 Press the **FUNC.** button and select **AWB*** with ▲/▼.

*The current settings is displayed.

- 2 Select  with ◀/▶.



- 3 Aim the camera at a piece of white paper or cloth, and press the **SET** button.
 - Aim the camera so that the white paper, cloth or gray card completely fills the frame at the center of the LCD monitor or the entire optical viewfinder before pressing the **SET** button. The camera reads the white balance data when you press the **SET** button.
 - You can shoot right after setting the white balance. The menu displays again after the shot, allowing you to change the settings, easily.
- 4 Press the **FUNC.** button.

● Shooting ●



- To set and use a custom white balance setting, it is advisable to select the **CM** shooting mode and set the exposure compensation to zero (**±0**). The correct white balance may not be obtained when the exposure is incorrect (image is completely black or white).
- Since the white balance data cannot be read in **CM** and **CM** modes, preset the white balance in another shooting mode.
- Set the flash on or off when setting a custom white balance. The white balance may not be accurate if the setting conditions and shooting conditions are not the same. If the flash fires when setting a custom white balance with the flash set to **ON** or **FA**, ensure that you also use the flash when you go to shoot.
- The custom white balance setting is not cancelled even if settings are reset to default settings. (p. 112)

Changing the Photo Effect



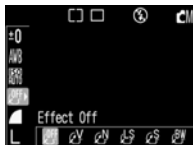
An image can be recorded in a different Photo Effect Mode.

| | | |
|--|----------------|--|
| | Effect Off | Records normally with this setting. |
| | Vivid | Emphasizes the contrast and color saturation to record in bold colors. |
| | Neutral | Tones down the contrast and color saturation to record neutral hues. |
| | Low Sharpening | Records subjects with softened outlines. |
| | Sepia | Records images in sepia tones. |
| | B/W | Records images in black and white. |

1 Press the **FUNC.** button, and select

* with ▲/▼.

*The current settings is displayed.





2 Select the photo effect with ◀/▶.

- If the LCD monitor is on, you can check the photo effect by viewing the image on the LCD monitor.
- A shot can be taken immediately by pressing the shutter button. The menu will reappear after the shot, allowing you to adjust the setting.

3 Press the **FUNC.** button.


Changing the ISO Speed

Change the ISO speed when you wish to shoot in a dark area or use a fast shutter speed.

- 1 Press the **FUNC.** button, and select * with .

*The current settings is displayed.



- 2 Press  to select the ISO speed.
- 3 Press the **FUNC.** button.






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

Resetting the File Number






Select the set up method for the file number.

| | |
|-----|--|
| On | The camera resets the file number to 100-0001 each time you insert a new (unused) CF card. If you insert a card that already contains some images, numbering resumes from the next available number. |
| Off | The camera remembers the last file number, and starts numbering from the next number when you insert a new CF card. |

- 1 In the [Set up] menu, select  (File No. Reset).
See "Selecting Menus and Settings" (p. 35).
- 2 Press  /  to select [On] or [Off] and press the **MENU** button.







- Setting the File No. Reset to [Off] is useful for avoiding file name duplication when images are downloaded to a computer.
- **About File 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  or  /  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 replayed in this camera.

Replaying


Displaying Images Individually

Use this feature to view recorded images one at a time on the LCD monitor (Single Image Replay).

1 Press the  **ON** button.
The last image shot is displayed.







2 Press  /  to switch the displayed image.
Hold down  /  to display images continuously.

Magnifying Images

1 Press the  button during single replay.
The image enlarges gradually by up to 10 times.



Approximate Location
of the Magnified Area

- When you hold down the **SET** button and press the  button, the image enlarges in the order: approximately 2.5 times → approximately 5 times → approximately 10 times.
- Press  /  /  /  to change the display position vertically and horizontally.
- To return to normal-size display, press the  button several times.








- Movies cannot be enlarged.

Viewing Images in Sets of Nine




View nine images at once on the LCD monitor (Index View) so that you can search the image quickly.

- 1 Press the  button.
Nine images appear at a time.






- 2 Press /// to select the image.
- 3 Press the  button for an image you want to zoom.

Changing the Displayed Images

- 1 Press the  button while the index is being replayed.
- 2 Press / to change the image.



- Hold the **SET** button and press the / to jump to the first or last image.
- Press the  button to go to index replay.

Viewing Movies

Replay movies you shot.

- 1** Press ◀/▶ to select the movie.
A movie displays with the **SET** icon on it.



- 2** Press the **SET** button.
The movie replay panel appears.



Volume

- 3** Select ▶ with ◀/▶, and press the **SET** button.

The movie images and sound will play.

- You can adjust the volume with ▲/▼.
- When a movie has finished replaying, it will display the last frame.

Pausing and Resuming Play

- Press the **SET** button to pause the movie. Press it again to resume.



- The movie cannot be replayed when in index replay.

Fast Forwarding/Rewinding

Select one of the following operations with ◀/▶, and press the **SET** button.

↶ : Return to Single Image View

◀◀ : First Frame

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

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

▶▶ : Last Frames



- You may experience frame dropping and audio breakup when replaying a movie on a computer with insufficient system resources.



- If it's in replay mode, you can also adjust the volume of the movie from the Set up menu (p. 109).

Editing Movies

You can delete unwanted portions from the first or second half of the movie clip.

- 1 Select the movie you wish to edit, and press the **SET** button.
 - Viewing Movies (p. 68)
- 2 Select **Ⓜ** (Edit) with ◀/▶, and press the **SET** button.



The movie editing panel and the movie editing bar will appear.

● Replaying ●

- 3** Select the editing method with ▲/▼.



- : Deletes frames in the first half of the movie
- : Deletes frames in the second half of the movie
- : Reverts to the movie replay panel

- 4** Select the editing position with ◀/▶.



Editing position

- 5** Select (Replay) with ▲/▼, and press the **SET** button.

- The temporarily edited movie will start playing.
- The movie will stop if you press the **SET** button while it is playing.

- 6** Select (Save) with ▲/▼, and press the **SET** button.



- When is selected, the edited movie is not saved and the camera reverts to replay.

- 7** Select [Overwrite] or [New File] with ◀/▶, and press the **SET** button.



- [Overwrite]: Saves the edited movie under the same file name as the original movie. The original data is deleted.
- [New File]: Saves the edited movie under a new file name. The original data is not deleted.
- When there is not enough space left on the CF card, only the overwrite function is available. If this happens, ▲ appears on the counter of the movie editing bar.



- Protected movies cannot be edited.
- It may take approx. 3 minutes to save an edited movie. In case the battery runs out during that period, the saving process may not be able to be completed. To prevent this, it is recommended to use unused fully charged AA size alkaline batteries or fully charged AA-size NiMH batteries (sold separately), or the AC Adapter Kit ACK 800 (sold separately). (p. 121)



- Movies with an original length of 2 seconds or more can be edited.
- The minimum length for movie clips is 1 second.

Rotating Images in the Display

You can rotate an image by 90° or 270° clockwise in the LCD monitor.




0° (Original)



90°



270°


- 1** In the [Play] Menu, select  (Rotate) and press the **SET** button.
See "Selecting Menus and Settings" (p. 35).
- 2** Press ◀/▶ to select the image to be rotated and press the **SET** button.
Press the **SET** button to rotate the Image 90°, 270° and back to original orientation.
- 3** Press the **MENU** button.



- Movie images cannot be rotated.
- If an image has been rotated in the camera before being loaded onto a computer, the particular software in use will determine whether or not the rotation settings are retained.

Attaching Sound Memos to Image


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

- 1 Select  (sound memo) from the [Play] menu, and press the **SET** button.
See "Selecting Menus and Settings" (p. 35).

- 2 Select the image to which you wish to attach the sound memo with ◀/▶, and press the **SET** button.







The AV panel appears

- 3 Select  with ◀/▶, and press the **SET** button.
 - The recording starts and the elapsed time is displayed. Speak towards the microphone of the camera.
 - To stop recording, press the **SET** button. To restart recording press the **SET** button again.
 - You can add as many sound memos as you like until their total reaches 60 seconds.

● Replaying ●

Playing the Sound Memos

Select  (Replay) in step 3. The  icon is displayed to images with sound memos. (Only when image information exists)

To stop replaying, press the **SET** button. To resume replaying, press the **SET** button again. You can adjust the volume with /.

Erasing the Sound Memos

Select  in step 3.

Erasing the Sound Memos Settings

Press the **MENU** button in step 3.




- You cannot attach sound memos to movies.
- You can not record or play back sound memos for images that already have an incompatible sound file attached. If you attempt to record or play such images the "Incompatible WAVE format" message will display. Incompatible sound files can be deleted with this camera.
- Sound memos for protected images cannot be erased (p. 76).



- You can also adjust the volume of the sound memo in the Set up menu. (p. 109)

Auto Play

Use this feature to automatically replay all of the images in the CF card (Auto Play). The LCD monitor displays each image for approximately 3 seconds.

- 1 In the [Play] Menu, select  (Auto Play) and press the **SET** button. See "Selecting Menus and Settings" (p. 35).

Auto play starts.

- As with the single image display mode, pressing the ◀/▶ during auto play will advance through the images more rapidly.

Pausing and Resuming Auto Play

You can pause Auto Play at any time by pressing the **SET** button. You can then restart it by pressing the **SET** button again.

Stopping Auto Play


To stop Auto Play, press the **MENU** button.




-
- 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. 27).
-


Protecting Images


Use the protect feature to protect important images from accidental erasure.

1 In the [Play] Menu, select  (Protect) and press the **SET** button.
See "Selecting Menus and Settings" (p. 35).

2 Press ◀/▶ to select the image you want to protect and press the **SET** button.
The  icon appears on the protected image.



 Protected Icon

- To release the protection, press the **SET** button again.
- You can make the selection of images easier by toggling between single replay and index replay with the  button.

3 Press the **MENU** button.



- Please note that even protected images are erased when a CF card is reformatted.

Erasing



- Remember that erased images cannot be recovered. Be careful to avoid accidental erasures.
- This function will not erase protected images (p. 76).

Erasing Single Images

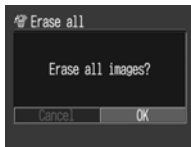
- Press the ◀/▶ to select the image you want to erase and press the 🗑️ button.



- Press the ◀/▶ to select [Erase] and press the **SET** button. Select [Cancel] instead of [Erase] and press the **SET** button if you decide you do not want to erase the image.

Erasing All Images

- In the [Play] Menu, select 🗑️ (Erase all) and press the **SET** button. See "Selecting Menus and Settings" (p. 35).
- Press ◀/▶ to select [OK] and press the **SET** button.



Select [Cancel] instead of [OK] and press the **SET** button if you decide you do not want to erase the images.


Formatting a CF Card



You should format a CF card when you wish to use a new one, or when you wish to delete not only the images in the CF card but also other data.



- Formatting a CF card will permanently erase all data already on it, including all of its protected images. Check the contents before formatting cards that were previously used.

1 In the [Set up] Menu, select  (Format) and press the **SET** button. See "Selecting Menus and Settings" (p. 35).

2 Press ◀/▶ to select [OK] and press the **SET** button.




Select [Cancel] and press the **SET** button to cancel the formatting.



- If the camera is not operating correctly, the CF card may be corrupted. Formatting the card may solve the problem.
- If you are using a CF card from another manufacturer and the card is not functioning correctly, you may be able to correct the problem by formatting the card.
- CF cards formatted with another camera, a computer or peripheral device may not operate correctly. Format these cards with this camera. If formatting in the camera doesn't work properly, turn the camera off and re-insert the CF card. Then turn the camera back on and format again.

About Printing

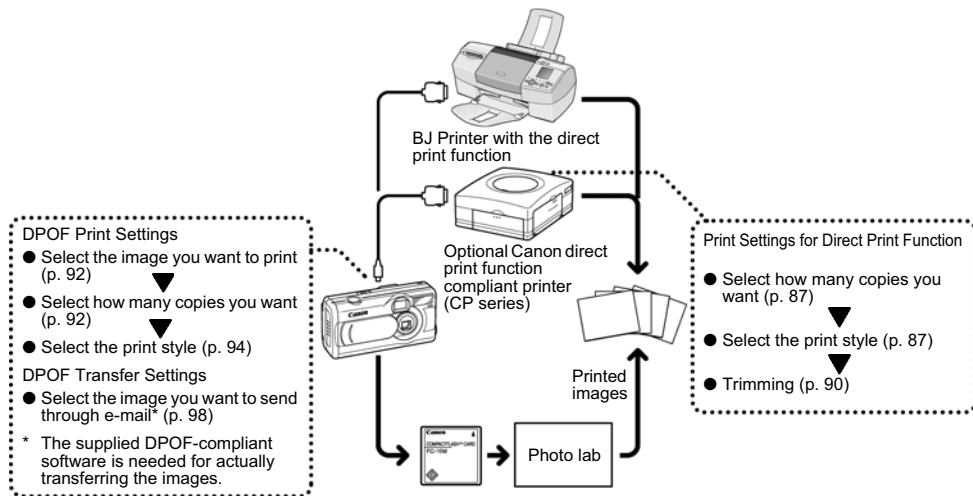
This camera supports direct printing. By connecting the camera to an optional direct print compatible printer (CP series)*¹ or a Bubble Jet printer (sold separately) that supports the direct print function, you can send the image from the CF card directly to the printer using the camera buttons. Or, you can specify the images on your CF card you want to print and how many copies you want (DPOF*² Print Settings), and then take the CF card to a participating photo lab to have them printed out later.

*¹ The direct print  icon appears on direct print compatible CP series printers.

*² Digital Print Order Format.

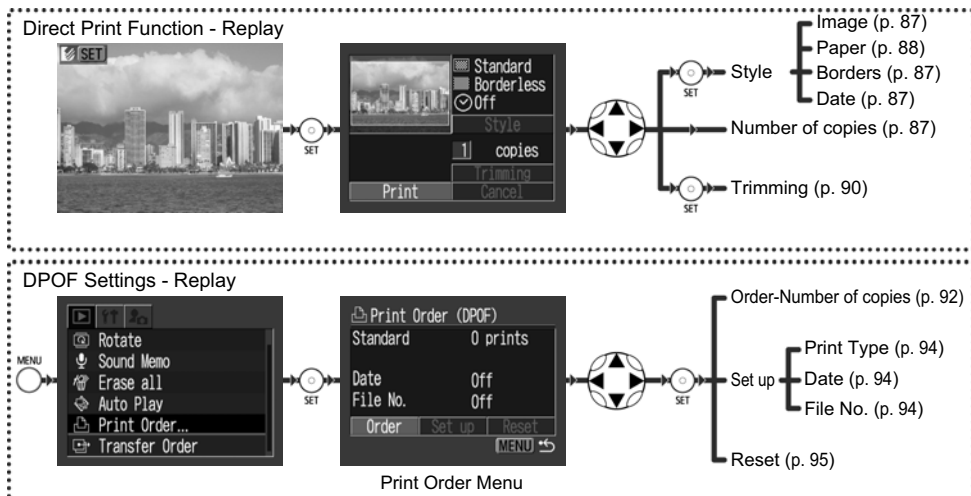
Refer to the *System Map* included with this camera kit for direct print function compatible printer (CP Series) information.

● Printing ●




Selecting from the Print Order Menu

Use the Print Order Menu as shown below to select all print settings. Make sure to keep the camera in replay mode.



Connecting the Camera to a Printer

Connecting to a Direct Print Function Compatible Printer (CP Series)

Two direct interface cables are included with Canon printers having the direct print function. Use the DIF-100 cable with the  mark on the connector when connecting to this camera.




- If you plan to print out many prints in a single session, it is recommended that you power the camera with AC Adapter Kit ACK800 (p. 121) or else load fully charged NiMH batteries (p. 118) or unused alkaline batteries before you begin.

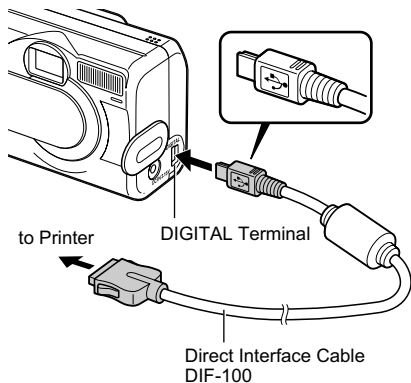


- Refer to the *System Map* included with this camera kit for printer information.
- Please see your printer's manual for instructions on loading paper and installing an ink cassette.

- 1 Turn off the Camera.
- 2 Attach the power cable to the printer and plug the other end into power supply. Or, install the printer's rechargeable battery.
 - Depending on the type of printer you have, it may or may not use rechargeable batteries. Refer to your printer's user guide.

3 Connect the camera and printer using the direct interface cable.


- When you insert the cable, make sure the  mark of the cable faces the front of the camera.



4 Press the printer's ON/OFF button to turn on the power.

With the Card Photo Printer CP-10, the power turns on when the power cord is connected to the printer as shown in step 2.

5 Press the ON button to turn the camera power on.

If the printer is correctly connected, the  icon will appear on the LCD monitor.




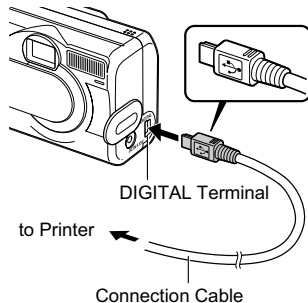
● Printing ●



Connecting Bubble Jet Printer to the Camera



● Please read the user guide supplied with your BJ printer to see if it is compatible with the direct print function, and for instructions on connection cables and general operations.



- 1 Turn off the camera.
- 2 Turn the BJ printer's power on after you have connected the power cord to the BJ printer and inserted the other end in a power outlet.
- 3 Connect the camera and printer using the cable.
When inserting the cable, make sure the  mark faces the front of the camera.



- 4 Press the  **ON** button to turn the camera power on.
If the printer is correctly connected, the  icon will appear on the LCD monitor.





- On Bubble Jet printers with operation panels, images cannot be printed through the operation panel while the camera is connected.
- Movies cannot be played back or the language cannot be set with **SET + MENU** button when the camera is connected to a printer.
- When the printer is disconnected, the  or  symbol will disappear from the LCD monitor and the camera will revert to standard replay mode.
- Disconnecting the cable of the camera and the printer
 1. Disconnect the cable from the printer
 2. Turn off the camera
 3. Disconnect the cable from the camera



- When disconnecting the cable from the camera's Digital terminal, be sure to hold the connector at its sides and pull it straight out.

Printing

* The following illustrations show examples from a direct print function compatible printer (CP Series). Options for the Style category will differ slightly for BJ printers.

An image can be printed when displayed in single replay or selected in index replay.

- 1** Press ◀/▶ to select the image you wish to print, and then press the **SET** button.
- 2** Set the number of prints (p. 87), the print style (p. 87) and trimming (p. 90) settings as required.
- 3** Select [Print] and press the **SET** button.
The image will start to print and, when it is completely finished, the display will revert to the replay screen.



- Movies cannot be printed.



Cancel Printing

- Press the **SET** button while printing. A confirmation screen will appear. Press **◀/▶** to select [OK] and press the **SET** button.
 - Direct Print Function Compatible Printers (CP Series)
A print in progress cannot be stopped. The printer will stop after the current print is complete and the camera will display its replay screen at that point.
 - BJ Printers
The printer will stop printing the current image and eject the paper.

Printing Errors

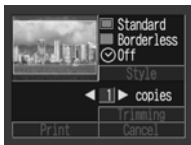
- An error message appears if an error occurs for some reason during the printing process (p. 115). Use the **◀/▶** to select [Cancel] or [Resume] and press the SET button (with a BJ printer, the print will automatically restart if the error is resolved).
 - Direct Print Function Compatible Printers (CP Series)
The [Resume] option may not appear with some types or error. In that case, select [Stop].
 - BJ Printers with the Direct Print Function
 - The [Continue] and [Stop] options may appear with some error message.
 - On BJ printers equipped with an operation panel, an error number displays on the panel. Please refer to the Bubble Jet Printer Quick Start Guide for the remedies corresponding to the error numbers.

Print Settings (Direct Print Function)

You can specify print settings while a printer is connected.

Setting the Number of Copies

- 1 While displaying the image, press the **SET** button and press ▲/▼ to select [copies].



- 2 Set the number of copies with ◀/▶. You can set from 1 to 99 prints.

Setting the Print Style

You can set the following contents.

Direct Print Function Compatible Printer (CP Series)

| | | |
|---------|------------|--|
| Image | Standard | Prints one image per page. |
| | Multiple* | Prints eight copies of the same image on one page. |
| Borders | Borderless | Prints right to the edge of the page. |
| | Bordered | Prints with a border. |
| Date | | Prints the image's creation date. |

* This setting is only available for Card-Size paper.

● Printing ●

Direct Print Function Compliant BJ Printer

| | | |
|---|-------------------------------------|--|
| <input checked="" type="checkbox"/> Paper | | Select the paper size from the following: [Card #1], [Card #2], [Card #3], [LTR] or [A4] Refer to the BJ printer's manual for papers can be used |
| <input type="checkbox"/> Borders | <input type="checkbox"/> Borderless | Prints right to the edges of the paper |
| | <input type="checkbox"/> Bordered | Prints with a border |
| <input checked="" type="checkbox"/> Date | | Prints the image's creation date |

- 1 While displaying the image, press the **SET** button. Press **▲/▼** to select [Style], then press the **SET** button.



- 2 Press **▲/▼** to select [Image] (or [Paper]), [Borders], or [Date].



3 Select with ◀/▶.

Image

(Direct Print Function
Compliant Printer (CP Series))
Select [Standard] or [Multiple]



Paper

(Direct Print Function
Compatible BJ Printer)
Select [Card #1], [Card #2],
[Card #3], [LTR] or [A4]



Borders

Select [Borderless] or
[Bordered].



Date

Select [On] or [Off].



4 Press the **MENU** button.

- If [Borderless] or [Multiple] is selected as the print style, the top, bottom, and sides will be cropped before printing.



Print Area Frame



- If you print images marked with DPOF print setting, the Date cannot be set. It will be printed with the DPOF print setting. (p. 96)
- If you are using a Direct Print Function Compliant Printer (CP Series), when [Multiple] is selected, date and borders cannot be set. (The image will be printed with the Date set to [Off] and the Borders set to [Borderless].)
- With the [Bordered] option, the border is printed in practically the same space as the recorded image.

Specifying the Printing Area (Trimming)

You can print a portion of the image.



Before Trimming

- Please set the Print Style (image, paper, borders, date, etc.) first. (p. 87)




1





While displaying the image, press the **SET** button. Press ▲/▼ to select [Trimming] and press the **SET** button.



2 Trim the image.




- Changing the Size of the Trimming Frame
 - Press the  or the  button.
 - The trimming frame can be changed to a minimum selection of approximately half the displayed image or a maximum selection that is virtually the same size as the image.
 - You can cancel the trimming setting by pressing the  again when the trimming frame is already set to the maximum size.
 - When printing an image that has been magnified using the trimming option, the image quality may become coarser and grainier depending on the magnifying rate. With direct print function compatible printers (CP Series), the trimming frame displays in red.

- Setting the Position of the Trimming Frame.
 - Use , , ,  to position the trimming frame.
- Rotating the Trimming Frame
 - You can rotate the trimming frame by pressing the DISP. button.

3

Press the **SET** button.






- The trimming setting only applies to one image
- The trimming setting is cancelled with the following operations.
 - Pressing the MENU button.
 - When you set the trimming of another image.
 - When you close the Print mode. (i.e. turn the camera off, change the camera mode, or disconnect the Direct Interface cable)
 - When you press  while the trimming frame is at its maximum size.

Print Settings (DPOF Print Settings)


You can select images on a CF 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 direct print function compatible printer (CP series) or a direct print function compatible BJ printer.

Selecting Images for Printing


- 1 Display the [Print Order] menu.
See "Selecting from the Print Order Menu" (p. 81).
- 2 Select [Order] and press the **SET** button.
- 3 Press ◀/▶ to select the image.
 - For setting images one by one
The setting method will vary according to the print type settings (☑) (p. 94) as shown in the following.

-  (Standard) /   (Both)
You can now select the number of copies with ▲/▼. (Max. 99 copies)






-  (Index)
Press ▲/▼ to place a check mark for selecting the image and press it again to remove the checkmark for deselecting.



You can set images for printing with the same method even if the  button is pressed and changed to index replay (3-image index replay).

► For setting all images on the CF card

- Press the  button to switch to index replay (3-images display)
- After pressing the **SET** button, press / to select [Mark all]. Press the **SET** button again to set for printing all images one at a time.
- You can change the number of copies for each image when the print type is [Standard] / [Both]. You can remove the print settings when the print type is [Index]. See from Step 3 for changing the settings.
- Select [Clear all] to remove all settings.

4 Press the **MENU** button.



- The  mark appears on images that have had print marks set by another DPOF-compliant camera. These settings will be overwritten by any print marks set by your camera.
- The output of some digital printers or photo lab services may not reflect the specified print settings.
- Movies cannot be printed.









- Images are printed in order from oldest to newest by the shooting date.
- A maximum of 998 images can be set per CF card.
- The number of copies cannot be set when the [Print Type] is set to [Index]. Only one copy can be set at [Index].
- Print settings can also be assigned to images with the bundled software programs on a computer.




● Printing ●

Setting the Print Style

You can set up the print style as follows.


| | | |
|--|--|---|
| Print Type |  Standard | Print one image per sheet. |
| |  Index | Print index prints (multiple reduced-size images per page). |
| |   Both | Print selected images both in standard and index format. |
|  Date | | Include the date on the print. |
|  File No. | | Include the file number on the print. |

- 1 Display the [Print Order] menu.
See "Selecting from the Print Order Menu" (p. 81).
- 2 Press ◀/▶ to select [Set up] and press the **SET** button.


- 3 Press ▲/▼ to select the print style (,  or ).

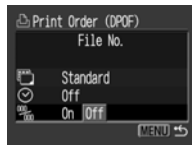
- 4 Select with ◀/▶.




 (Print Type)
Select [Standard],
[Index] or [Both].



 Date
Select [On] or [Off].



 File No.
Select [On] or [Off].

5 Press the **MENU** button.



- If you have chosen [Index] (index) as the print type, you cannot set [Date] and [File No.] to [On] at the same time.
- If you have chosen [Both] as the print type, you can set both [Date] and [File No.] to [On], however, only the file numbers will be printed on index prints.

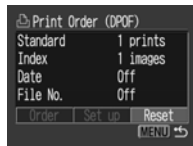


- The date is printed in a style set by [Date Style] (p. 23).

Resetting the Print Settings

The Reset feature clears all print selections, and resets Print Type to [Standard], Date to [On], and File No. to [Off].

- 1 Display the [Print Order] menu.
See "Selecting from the Print Order Menu" (p. 81).
- 2 Press ◀/▶ to select [Reset] and press the **SET** button.



- 3 Press ◀/▶ to select [OK] and press the **SET** button.
Select [Cancel] and press the **SET** button to cancel the reset.

Printing with DPOF Print Settings

You can use the DPOF print settings to print with an optional direct print function compliant printer (CP series), or with an optional direct print function compliant BJ printer.

- 1 Display the [Print Order] menu.
See "Selecting from the Print Order Menu" (p. 81).
- 2 Press ▲/▼ to select [Print] and press the **SET** button.



- 3 Set the print style as required.
 - See "Setting the Print Style" (p. 87).
 - A print style cannot be set if the print type is set to [Index] in the DPOF print setting. (you can select the type of paper with a BJ printer)
- 4 Press ▲/▼/◀/▶ to select [OK] and press the **SET** button.
The image will start to print and, when it is completely finished, the display will revert to the replay screen.





- To print the date, set the [Date] setting in the print order menu, in Step 2 on the previous page, to [On]. You cannot set the date to print with the [Style] menu in Step 3 on the previous page (p. 94). If the print type is set to [Index], the date will not print even if the [Date] setting is set to [On] in Step 2.
- When [Print Type] is set to [Both], you can set both the [Date] and [File Number] to [On] on your camera. However, if you print the [Index], only the file number will be printed. (If it's a BJ printer, when you print the [Index], neither the date nor the file number will be printed)
- When [Print Type] is set to [Standard], the file number is not printed.



- When the Print Type is set to [Index], the number of images that will be printed depends on the size of the paper.
 - Card Size: 20 images
 - L Size: 42 images
 - Postcard Size: 63 images
 (For information on resolution when printing with a BJ printer, refer to its manual)
- Cancel Printing (p. 86)
- Restarting Printing

- In the Print Order menu, select [Resume] using ◀/▶ button and press the **SET** button. The remaining images can be printed.
- Printing cannot be restarted under the following circumstances.
 - If the print settings have been changed before restarting.
 - If the image for which the print settings were set has been deleted before restarting.
 - If there was very little free space on the CF card when the printing was cancelled.

If these circumstances apply, you can select [OK] in the print screen and reprint starting from the first image. If printing stops because the battery charge runs out, change to an AC Adapter Kit ACK800, or to fully charged AA-size NiMH batteries before turning the camera on.


● Printing Errors (p. 115)

Image Transfer Settings (DPOF Transfer Order)




Setting the Image Transfer

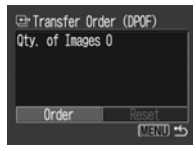
Using the camera, you can specify images you wish to transfer and attach to e-mails. (Please use the supplied software for actually transferring images.) These settings are compatible with the Digital Print Order Format (DPOF) standards.



- The  mark will display on images that have had transfer marks set by another DPOF-compliant camera. These settings will be overwritten by any marks set by your camera.


Selecting Images for Transferring

- 1** In the [Play] menu, select  (Transfer Order) and press the **SET** button.
See "Selecting Menus and Settings" (p. 35).
- 2** Press  /  to select [Order] and press the **SET** button.




- You can remove all the transfer marks at once by selecting [Reset].

3 Select images for transferring.

- For setting images one by one
 - Press ◀/▶ to select the image and mark or remove checkmarks from images using ▲/▼. The check marks are displayed when set.
 - The above method can be used even if you press the  button to switch to index replay (3-images display).



- For setting all images on the CF card
 - Press the  button to switch to index replay (3-images display).
 - After pressing the **SET** button, press ▲/▼ to select [Mark all]. Press the **SET** button again to set for printing all images one at a time.
 - Select [Clear all] to remove all settings.

4 Press the **MENU** button.



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

Downloading Images to a Computer

Download images taken with the camera to a computer using 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 a CF card
Using a laptop or a card reader, you can download images directly from the CF card.

Connecting the camera to a computer via the USB Cable

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

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



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

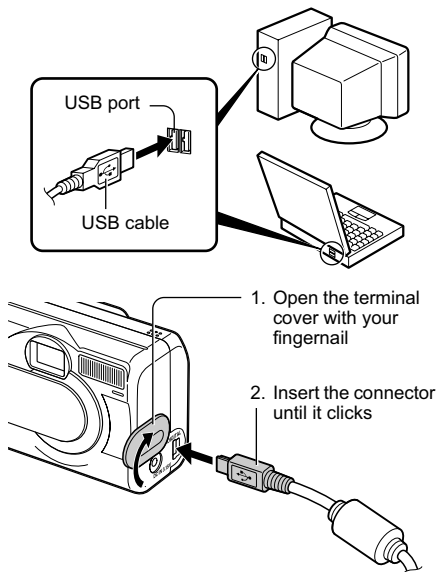
1 Install the driver and the software applications bundled on the Canon Digital Camera Solution Disk.

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

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

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

● Downloading Images to a Computer ●

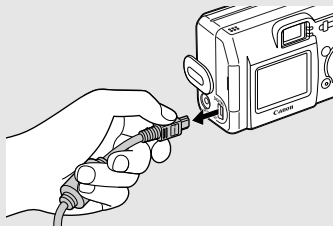


- 3** Press the **▶ON** button.
The LCD monitor displays in replay mode. When the connection to the computer is complete, the LCD monitor turns off and the green indicator comes on.

For information about what to do after making the connection, please refer the *Software Starter Guide*.



- To disconnect the cable from the camera: Hold the cable connector firmly at both sides and pull it straight out.



Downloading Images without Installing the Software (Windows XP and Mac OS X (10.1 or 10.2 only))

If you are using Windows XP or Mac OS X (10.1 or 10.2), 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 images with this method.

For more details, please refer to the supplied *For Windows® XP and Mac OS X Users* leaflet.

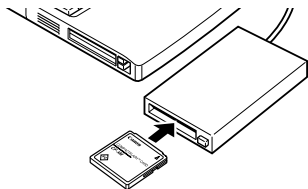
- 1** Connect the supplied USB interface cable to the computer's USB port and the camera's DIGITAL terminal (Refer to step 2 of page 101).
- 2** Follow the onscreen instructions to download the images.



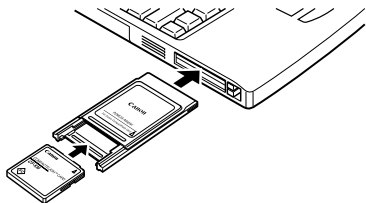
- It is recommended to power the camera with the optional AC Adapter Kit ACK 800 when connected to a computer (p. 121).
- If you disconnect the USB cable while the camera is on, the camera will automatically turn off.
- All procedures performed with a connection to a USB 2.0 compliant board are not guaranteed.

Downloading directly from a CF card

- 1** Eject the CF card from the camera and insert it into a CF card reader connected to the computer.



- If you are using a PC card reader, first insert the CF card into a PC card adapter (optional), and then insert the PC card adapter into the computer's PC card reader.

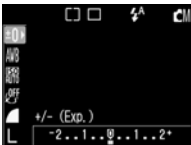
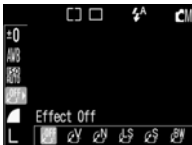
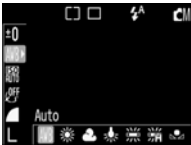





- 2** Double-click the icon of the drive with the CF card.
- 3** Copy images from the card into a folder of your choice on the hard disk. The images are stored in the [xxx CANON] folders located in the [DCIM] folder (where xxx is a three-digit number from 100 to 998).

List of Menu Options and Messages

FUNC. Menu



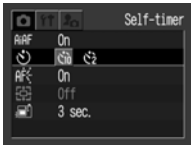



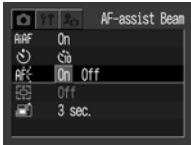
* Default settings

| Item / Menu Screen | Setting Content | Item / Menu Screen | Setting Content |
|--|--|--|---|
| <p>Exposure Compensation</p>  | <p>Sets the exposure compensation (p. 59).</p> <ul style="list-style-type: none"> -2 to 0* to +2 | <p>Photo Effect</p>  | <p>Switches between photo effects (p. 63).</p> <ul style="list-style-type: none"> (Off)* / (Vivid) / (Neutral) / (Low sharpening) / (Sepia) / (B / W) |
| <p>White Balance</p>  | <p>Sets the white balance (p. 60).</p> <ul style="list-style-type: none"> (Auto)* / (Daylight) / (Cloudy) / (Tungsten) / (Fluorescent) / (Fluorescent H) / (Custom) | <p>Compression</p>  | <p>Sets the relative compression ratio (p. 47).</p> <ul style="list-style-type: none"> (Superfine) (Fine)* (Normal) |
| <p>ISO Speed</p>  | <p>Sets the sensitivity at which images are recorded (p. 64).</p> <ul style="list-style-type: none"> AUTO / 50* / 100 / 200 / 400 | <p>Resolution</p>  | <p>Sets the number of pixels (p. 47).</p> <ul style="list-style-type: none"> (L) (2048x1536)* / (M1) (1600x1200) / (M2) (1024x768) / (S) (640x480) (640) (640x480) / (320) (320x240)* / (160) (160x120) |

● List of Menu Options and Messages ●

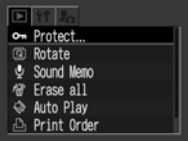
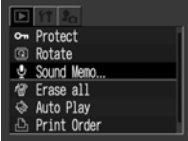
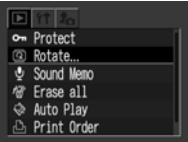
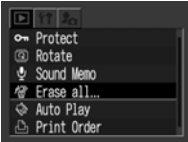
Rec. Menu

* Default settings

| Item / Menu Screen | Setting Content | Item / Menu Screen | Setting Content |
|---|---|--|--|
| AiAF  | Sets the AiAF to on (the camera automatically selects the AF frame when taking a picture) or off (AF frame is set to the middle frame) (p. 57). <ul style="list-style-type: none"> • On* • Off | Digital Zoom  | Turns the digital zoom on or off (p. 34). <ul style="list-style-type: none"> • On* • Off |
| Self-Timer  | Sets the duration before the self-timer releases the shutter once the shutter button is pressed (p. 52). <ul style="list-style-type: none"> •  (10 seconds)* •  (2 seconds) | Review  | Sets the duration images display on the LCD monitor after the shutter button is released (p. 34). <ul style="list-style-type: none"> • Off • 3* to 10 sec. |
| AF-assist Beam  | Turns the AF-assist beam on or off (p. 33). <ul style="list-style-type: none"> • On* • Off | | |

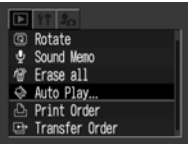
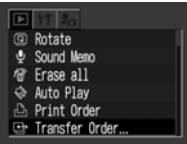
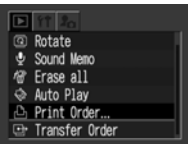
Play Menu

* Default settings

| Item / Menu Screen | Setting Content | Item / Menu Screen | Setting Content |
|--|---|--|---|
| <p>Protect</p>  | <p>Protects images from accidental erasure (p. 76).</p> | <p>Sound Memo</p>  | <p>Adds sound memos to the image (p. 73).</p> |
| <p>Rotate</p>  | <p>Rotates images 90 or 270 degrees clockwise in the display (p. 72).</p> | <p>Erase all</p>  | <p>Erases all images from a CF card (excluding protected images) (p. 77).</p> |


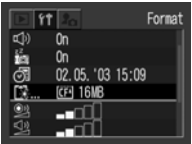




● List of Menu Options and Messages ●

* Default settings



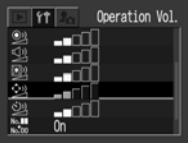


| Item / Menu Screen | Setting Content | Item / Menu Screen | Setting Content |
|--|--|--|--|
| <p>Auto Play</p>  | <p>Plays images automatically one after the other (p. 75).</p> | <p>Transfer Order</p>  | <p>Sets the images that will be transferred with your e-mail software (p. 98).</p> |
| <p>Print Order</p>  | <p>Sets which images and how many copies will be printed on a direct print function compatible printer (CP series), direct print function compatible BJ printer, or a photo lab service (p. 92).</p> | | |

Set up Menu

* Default settings

| Item / Menu Screen | Setting Content | Item / Menu Screen | Setting Content |
|--|--|--|---|
| <p>Beep</p>  | <p>Sets whether or not the beep sounds when the shutter button is pressed (p. 33).</p> <ul style="list-style-type: none"> • On* • Off • Still beeps to warn of an error even when set to Off. | <p>Format</p>  | <p>Formats (initializes) a CF card (p. 78).</p> |
| <p>Auto Power Down</p>  | <p>Sets whether or not the camera automatically powers down after a specified period of time elapses without something being pressed (p. 27).</p> <ul style="list-style-type: none"> • On* • Off | <p>Shutter Volume</p>  | <p>Adjusts the sound volume when the shutter button is pressed all the way. There is no shutter sound in Movie mode (p. 39).</p> <ul style="list-style-type: none"> • Off / 1 / 2* / 3 / 4 / 5 |
| <p>Date/Time</p>  | <p>Sets the date, time and date format (p. 23).</p> | <p>Playback Vol.</p>  | <p>Adjusts the sound volume when a sound memo or movie is played (p. 68).</p> <ul style="list-style-type: none"> • Off / 1 / 2* / 3 / 4 / 5 |


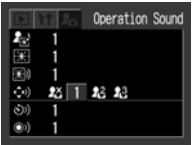



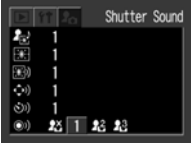
● List of Menu Options and Messages ●

| Item / Menu Screen | Setting Content | Item / Menu Screen | Setting Content |
|---|--|--|---|
| <p>Start-up Vol.</p>  | <p>Adjusts the sound volume when the camera powers up (p. 39).</p> <ul style="list-style-type: none"> • Off / 1 / 2* / 3 / 4 / 5 | <p>File No. Reset</p>  | <p>Sets how file numbers are assigned to images (p. 39).</p> <ul style="list-style-type: none"> • On • Off* |
| <p>Operation Vol.</p>  | <p>Adjusts the sound volume of the Operation Sound (p. 39).</p> <ul style="list-style-type: none"> • Off / 1 / 2* / 3 / 4 / 5 | <p>Language</p>  | <p>Sets the language used in the menus and messages on the LCD monitor (p. 24).</p> <ul style="list-style-type: none"> • English / Deutsch / Français / Nederlands / Dansk / Suomi / Italiano / Norsk / Svenska / Español / Chinese / Japanese |
| <p>Selftimer Vol.</p>  | <p>Adjusts the volume of the self-timer sound heard from 2 seconds prior to the shot until the actual shot (p. 39).</p> <ul style="list-style-type: none"> • Off / 1 / 2* / 3 / 4 / 5 | | |

* Default settings

My Camera Menu

* Default settings

| Item / Menu Screen | Setting Content | Item / Menu Screen | Setting Content |
|---|--|---|--|
| <p>Theme</p>  | <p>Selects a common theme for the start-up image, start-up sound, shutter sound, operation sound, and self-timer sound (p. 41).</p> <ul style="list-style-type: none"> • (Off) / 1* / / | <p>Operation Sound</p>  | <p>Sets the sound when any button other than the shutter button is operated (p. 41).</p> <ul style="list-style-type: none"> • (Off) / 1* / / |
| <p>Start-up Image</p>  | <p>Sets Start-up image when you turn on the camera (p. 41).</p> <ul style="list-style-type: none"> • (Off) / 1* / / | <p>Selftimer Sound</p>  | <p>Sets the sound informing you that the photo will be taken in 2 seconds (p. 41).</p> <ul style="list-style-type: none"> • (Off) / 1* / / |
| <p>Start-up Sound</p>  | <p>Sets the start-up sound when you turn on the camera (p. 41).</p> <ul style="list-style-type: none"> • (Off) / 1* / / | <p>Shutter Sound</p>  | <p>Sets the shutter sound when you depress the shutter button. There is no shutter sound in Movie mode (p. 41).</p> <ul style="list-style-type: none"> • (Off) / 1* / / |

Resetting the Settings to Default

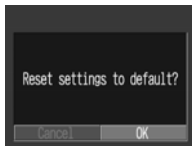
You can reset all of the menu and button operation settings to default except for [Date / Time] and [Language].

1 Turn on the camera.

Can be performed from shooting, replay or any other mode.

2 Press the **MENU** button for longer than 5 seconds.

The message "Reset settings to default?" appears on the LCD monitor.



3 Press ◀/▶ to select [OK], and press the **SET** button.

- To cancel resetting, select [Cancel] instead of [OK].



- The custom white balance is not cancelled even if settings are reset to default settings. (p. 62)
- Settings cannot be reset when the camera is connected to a computer, to an optional direct print function compatible printer (CP series) or to a direct print function compatible BJ printer (optional).

List of Messages

The following table explains each of the messages that may appear on the LCD monitor.

| | |
|--------------------------|---|
| Busy... | : The camera is recording image data to the CF card. The replay mode is running. |
| No Memory card | : You attempted to shoot or replay with no CF card installed. |
| Cannot record! | : You attempted to shoot with no CF card installed. |
| Memory card error | : There is something wrong with the CF card. |
| Memory card full | : The CF card is too full to store images or accept new print settings. |
| Naming error! | : The camera cannot generate a file name for the image you have shot because the card already contains a folder having the same name as the file to be created, or the file number has already reached the maximum possible value. Display the Rec. menu and set [File Number Reset] to [On]. Save all images you wish to keep into your computer, and reformat the CF card. Please note that formatting will erase all data in the card. |
| Change the batteries | : The batteries are dead, and the camera can no longer function. Replace both batteries at the same time with new AA-size alkaline batteries (p. 18) or fully recharged batteries. |
| No image | : No images recorded on CF card. |
| Image too large | : You attempted to replay an image whose resolution exceeded 3200 x 2400 pixels or whose file size was too large. |
| Incompatible JPEG format | : You attempted to replay an incompatible JPEG file. |

● List of Menu Options and Messages ●

| | |
|-----------------------------|---|
| Corrupted data | : You attempted to replay an image with corrupted data. |
| RAW | : You attempted to replay an image recorded in the RAW format. |
| Unidentified image | : You attempted to replay an image file recorded in a unrecognized format (file recorded by a different camera in a proprietary format, etc.). |
| Cannot magnify! | : The image you attempted to magnify was recorded by another camera, or recorded in a format that cannot be magnified, or edited on a computer. |
| Cannot rotate! | : The image you attempted to rotate was recorded by another camera, or recorded in a format that cannot be rotated, or edited on a computer. |
| Incompatible WAVE format | : Cannot attach sound memo to the image because the image has some sound file recorded in an inappropriate format. |
| Protected! | : You attempted to erase a protected image. |
| Too many marks! | : Too many images have been marked for printing. No more images can be marked. |
| Cannot register this image! | : You attempted to register an image recorded with another camera as a start-up image. |
| Cannot mark image | : You attempted to set the print settings for a non-JPEG file. |
| Exx | : Camera malfunctioned. Turn off the power and turn on again, then re-shoot or replay. If the same message recurs frequently, the camera may be damaged. Note down the error number [xx] and take the camera to a Customer Support Help Desk. If this message appears immediately after you have taken a shot, the camera may not have shot the image. Switch to the Replay mode and check whether the image was actually recorded. |

● List of Menu Options and Messages ●

The following table lists and explains the messages that may be on the LCD monitor when printing to an optional direct print compliant printer (CP series). (Some of these messages may not appear depending on the printer.)

| | |
|------------------------------|--|
| No Paper | : Paper cassette is empty or is not installed correctly. |
| No Ink | : No ink cassette in the printer, or the ink cassette is out of ink. |
| Incompatible paper size | : You attempted to print with a incompatible paper size. |
| Incompatible ink size | : You attempted to print with an incompatible ink cartridge type. |
| Ink Cassette Error | : There is a problem with the ink cassette. |
| Paper and ink do not match | : The paper and ink are from different sets. |
| Paper Jam | : Paper jammed during printing. |
| Paper has been changed | : The paper size was changed between the time the Print Style menu was displayed and the time printing started. |
| Recharge the printer battery | : The printer's battery is out of power. |
| Communication Error | : A communication error has occurred. |
| Readjust trimming | : You attempted to print the image with a different style than the one used when the trimming settings were set. |
| Cannot Print! | : You attempted to print an image shot by a different camera, or in an incompatible format, or downloaded to and edited on a computer. |
| Could not print xx images | : You attempted to print xx number of images with DPOF settings that were shot by a different camera, or in an incompatible format, or downloaded to and edited on a computer. |

● List of Menu Options and Messages ●

The following table lists and explains the messages that may be on the LCD monitor when printing to an optional Direct Print Compatible Bubble Jet Printer.

Check the error number displayed on the control panel of Bubble Jet Printer and refer to the Bubble Jet Printer *Quick Start Guide*.

(Some BJ printers may not display a message or error code.)

| | |
|--------------------|---|
| Printer in use | : The printer is printing the data from the memory card inserted in the computer or printer. The printer automatically starts printing the images from the camera after completing the current printing. |
| Printer warming up | Printer is warming up. When it is ready, the printer starts printing automatically. |
| No print head | : No print head is installed in the printer. |
| Printer cover open | : Close the printer cover securely. |
| Media type error | : You selected a paper type incompatible with the printer. Select a compatible paper type in the Print Style menu. |
| Paper lever error | : Adjust the paper selection lever to the proper position. |
| Low ink level | : The ink tank needs to be replaced soon. Prepare a new ink tank. If you select [Continue] in the error screen, you can restart printing. |
| Waste tank full | : You can restart printing by pressing the RESUME/CANCEL button on Bubble Jet Printer. Please request replacement of the waste tank at your nearest Canon customer support center listed in the Bubble Jet Quick Start Guide. |
| Printer error | : Turn off the printer, then turn it on again. If the error persists, please consult your nearest Canon customer support center listed in the Bubble Jet Quick Start Guide. |

Replacing the Date Battery

If the LCD monitor displays the Set Date / Time menu when you turn on the camera, this means that the Date battery has run down and the clock has stopped running. Please purchase a replacement battery (battery type CR2016) and install it as follows. (The date battery is preinstalled at the factory and may therefore expire earlier than its rated lifespan after the camera has been purchased.)



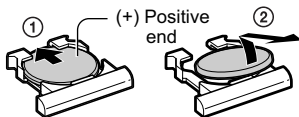
- Be particularly careful to keep the date batteries out of the reach of children. Seek medical assistance immediately if a child swallows a battery since corrosive battery fluids could damage the stomach or intestinal wall.

1 Be sure that the camera is turned off.

2 Pull out the date battery holder in the direction of the arrow.



3 Shift the date battery slightly in the direction of the arrow ① and pull out the battery in the direction as shown with arrow ②.



● Appendices ●

- 4 Insert the new date battery into the holder with the (+) side facing up.
- 5 Replace the date battery holder back into its original position.
- 6 Set the date and time when the Set Date / Time menu is displayed on the LCD monitor (p. 23).



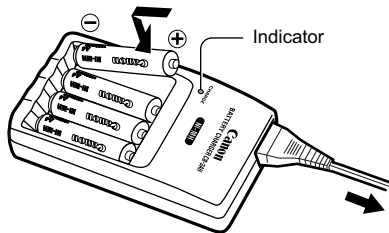
- The LCD monitor also displays the Set Date / Time menu the very first time you turn on the camera. This is normal, and you don't need to replace the date battery.

- If you should dispose of your camera, first remove the date battery for recycling according to the recycling system of your country.



Using the Optional Battery Kits

Using Rechargeable Batteries (Battery and Charger Kit CBK100)



* Two batteries can be charged instead of four.



- Four batteries are supplied with the Battery and Charger Kit CBK100, however, only two batteries are used for this camera.
- The indicator blinks while charging, then lights solid when charging is finished.



- This charger can be used only to charge Canon AA-size NiMH batteries. Please do not attempt to charge any other type of batteries with this charger.
- Never mix new batteries together with batteries that have been used in other devices.
- When recharging batteries from the camera, always recharge both of them at the same time.
- Do not mix batteries with different purchase dates or different charge states.
- Do not attempt to recharge fully charged batteries, as doing so may reduce or impair battery performance. Also, do not charge batteries for more than 24 consecutive hours.
- Do not recharge batteries in enclosed areas that tend to retain heat.
- Repeatedly recharging batteries before they become fully depleted may cause batteries to lose capacity. Do not recharge the batteries until the LCD monitor displays the "Change the batteries" message.
- Wipe the battery terminals well with a dry cloth in the following situations, as the terminals may be soiled with oil from one's skin or other dirt:
 - If the battery usage time has considerably diminished
 - If the number of recordable images has considerably diminished

- When charging the batteries (insert and remove the batteries two or three times before charging)
- When charging completes in a matter of a few minutes (the battery charger indicator remains lit)
- You may not be able to fully charge the batteries due to their specifications right after purchase or after long periods of non-use. If this happens, use the batteries until their charge is depleted before charging them again. After doing this several times, battery performance will be restored.
- Since storing a fully charged battery for long periods of time (about one year) can shorten its lifecycle or affect performance, you are recommended to use the battery in the camera until it is completely discharged and to store it at normal temperature (23°C / 73°F) or less. If you do not use the battery 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 battery usage time is considerably low despite their terminals' being wiped and the battery charger's indicator remaining lit, it is possible that the batteries have reached the end of their lifespan. Switch to different, unused batteries. If you are purchasing new batteries, look for Canon's AA-size NiMH batteries.
- Leaving batteries in the camera or charger may damage it causing battery leakage. Remove batteries from the camera or charger and store in a dry cool location when not in use.

● Appendices ●



- It takes approximately 110 minutes (for two) and 220 minutes (for four) for the charger to fully recharge the batteries (as determined by testing at Canon facilities). Please do not charge batteries in areas where the temperature is outside the range of 0 to 35 °C (32 to 104 °F).

Charging time varies according to ambient temperature and to the batteries' initial charge state.

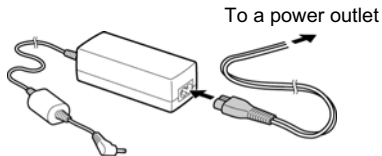
Using the AC Adapter Kit ACK800

Use of the ACK800 optional AC adapter kit is recommended when using the camera continuously for prolonged periods of time and when connecting to a computer.



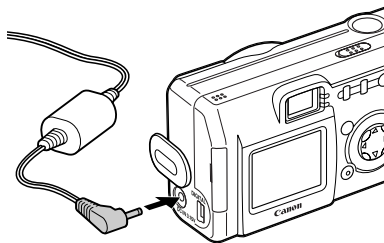
- Be sure that the camera is turned off before connecting or disconnecting the compact power adapter.

- 1 Connect the power cable to the compact power adapter, and then plug the other end into the power outlet.



- 2 Open the Terminal cover, and connect the adapter's DC plug into the camera's DC IN terminal.

- Please unplug the adapter from the power outlet when you have finished using the camera.



- Please do not attempt to use any AC adapter other than AC Adapter Kit ACK800 with your camera. Use of a different adapter may result in damage to the camera or to the adapter kit.

Camera Care and Maintenance

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

| | |
|----------------------------|---|
| Camera Body | Wipe 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 wiping the lens lightly with a soft cloth. <ul style="list-style-type: none">• Never use synthetic cleaners 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. |
| Viewfinder, LCD Monitor | Use a lens blower brush to remove dust and dirt. If necessary gently wipe the viewfinder and LCD monitor with a soft cloth or an eyeglass lens wiper to remove stubborn dirt. <ul style="list-style-type: none">• Never rub or press forcefully on the LCD monitor. These actions may damage it or lead to other problems. |



- Never use water, paint thinner, benzene, or detergents to clean the camera, as these may cause damage or deformation.

Troubleshooting

| Problem | Cause | Solution |
|------------------------------|---|--|
| The camera doesn't function. | The camera is turned off. | <ul style="list-style-type: none"> • Turn the power on. (See "Turning the Power ON / OFF" (p. 26).) |
| | The CF card slot / battery cover is open. | <ul style="list-style-type: none"> • Be sure the cover is closed securely |
| | Batteries are loaded in the wrong direction. | <ul style="list-style-type: none"> • Reload the batteries in the correct direction. |
| | Batteries are depleted. | <ul style="list-style-type: none"> • Replace with unused alkaline or fully recharged batteries (two AA-size batteries). • Use a household power source. |
| | Batteries are not the right type. | <ul style="list-style-type: none"> • Use only unused AA-size alkaline batteries or Canon AA-size NiMH batteries. (For the information about alkaline batteries, see "Proper Battery Handling" (p. 20).) |
| | Batteries are not making good electrical contact with the camera. | <ul style="list-style-type: none"> • Wipe the battery terminals with a clean dry cloth. |
| The camera doesn't shoot. | Camera is in replaying mode. | <ul style="list-style-type: none"> • Change to the Shooting mode. (See "Switching between Shooting / Replay" (p. 27).) |
| | The flash is charging. | <ul style="list-style-type: none"> • Wait until the flash charges. You can press the shutter button when the indicator glows a steady orange. |

● Appendices ●

| Problem | Cause | Solution |
|---|---|--|
| The camera doesn't shoot. | The CF card is full. | <ul style="list-style-type: none"> • Insert a new CF card. • Download images to your computer, then erase them from the card to free up more space. |
| | The CF card is not formatted correctly. | <ul style="list-style-type: none"> • Format the CF card. (p. 78). • The card may be defective (its logical may be corrupted). Contact Canon Customer Help Desk. |
| The camera stops while shooting a movie | Some CF cards (reading speed is too slow, formatted using another camera or computer, repeated shooting/erasing) cause the camera to stop while shooting. | <ul style="list-style-type: none"> • When shooting a movie, always use a CF card formatted with this camera. (p. 55) You can use the included CF card. <p>When shooting a movie with 640, it is recommended to use CF card FC - 256 MH (optional).</p> |
| The batteries are consumed quickly. | Batteries are not the right type. | <ul style="list-style-type: none"> • Use only unused AA-size alkaline batteries or Canon AA-size NiMH batteries. (For the information about alkaline batteries, see "Proper Battery Handling" (p. 20).) |
| | Battery capacity drops due to low ambient temperatures. | <ul style="list-style-type: none"> • If shooting in a cold area, keep the batteries warm (by placing them in an inner pocket, etc.) until ready to use them. |
| | Battery terminals are dirty. | <ul style="list-style-type: none"> • Wipe them well with a dry cloth before use. |

| Problem | Cause | Solution |
|--|---|--|
| The batteries are consumed quickly. | The batteries have not been used for over a year. | <ul style="list-style-type: none"> • If batteries are rechargeable: Performance should return to normal after several charging cycles. |
| | If using rechargeable batteries: The batteries have lost their effectiveness. | <ul style="list-style-type: none"> • Replace both batteries with new ones. |
| Batteries do not charge with an optional battery charger | Batteries were placed in the charger in the wrong direction. | <ul style="list-style-type: none"> • Put batteries back into the charger in the correct direction. |
| | Poor electrical contact, between batteries and the charger. | <ul style="list-style-type: none"> • Wipe the battery terminals with a dry, clean cloth. • Be sure to set batteries firmly into the charger. • Be sure that the power cable is firmly connected to the charger, and is firmly plugged in to the power outlet. |
| | Battery terminals are dirty. | <ul style="list-style-type: none"> • Wipe them well with a dry cloth before charging. |
| | The batteries have lost their effectiveness. | <ul style="list-style-type: none"> • Replace both batteries with new ones. |

● Appendices ●

| Problem | Cause | Solution |
|--|--|--|
| Shots are blurry or unfocused. | The camera was moving when you took the shot. | <ul style="list-style-type: none"> • Hold the camera steady when shooting. |
| | Autofocus function hampered by obstruction to AF-assist beam. | <ul style="list-style-type: none"> • Be careful not to block the AF-assist beam flash part with a finger or other object. |
| | The AF-assist beam settings are set to [Off]. | <ul style="list-style-type: none"> • Turn the [AF-assist beam] of the Rec. menu [On] (p. 106). |
| | The subject was outside the range over which the camera can focus. | <ul style="list-style-type: none"> • Ensure that there is at least 20 cm (7.9 in.) between the camera lens and subject. • Use the macro mode to shoot close-ups between 5 to 20 cm (2 to 7.9 in.) from the lens. • When shooting distant subjects, set the camera to infinity mode. |
| | The subject is difficult to focus on. | <ul style="list-style-type: none"> • Use the Focus Lock when shooting. (Using the Focus Lock (p. 56)) |
| The subject comes out underexposed (too dark). | Insufficient light for shooting. | <ul style="list-style-type: none"> • Set the flash on. |
| | The subject is darker than the surroundings. | <ul style="list-style-type: none"> • Set exposure compensation to a positive value. |
| | The subject is beyond the range of the flash. | <ul style="list-style-type: none"> • When flash is used, the distance between lens and subject should not exceed 2 m (6.7 ft.). |

| Problem | Cause | Solution |
|---|--|--|
| The subject comes out overexposed (too bright). | The subject is too close to the flash. | <ul style="list-style-type: none"> • When flash is used, the distance between lens and subject should be no less than 20 cm (7.9 in.). |
| | The subject is brighter than the surroundings. | <ul style="list-style-type: none"> • Set exposure compensation to a negative value. |
| | Light is shining or reflecting into the camera. | <ul style="list-style-type: none"> • Adjust the camera angle. |
| | The flash mode is set so that the flash always fire. | <ul style="list-style-type: none"> • Set the flash to any other mode except on. |
| White dots or white asterisks appear on the image. | Light from the flash has reflected off dust particles or insects in the air. | <ul style="list-style-type: none"> • This is a phenomenon that occurs with digital cameras and does not constitute a malfunction. |
| A red bar of light appears on the LCD monitor. | The subject is too bright. | <ul style="list-style-type: none"> • This is normal occurrence in devices containing CCDs and does not constitute a malfunction. (This red bar of light will not be recorded when shooting still photos, but it will be recorded when shooting movies.) |
| The flash doesn't fire. | The flash mode is set to flash off mode. | <ul style="list-style-type: none"> • Set the flash mode to any other mode except Off. |
| Reading images from CF card is slow. Recording images to CF card takes a long time. | CF card was formatted in another device. | <ul style="list-style-type: none"> • Use a CF card formatted in your camera. See "Formatting a CF Card" (p. 78). |

Specifications

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

PowerShot A300

| | |
|-------------------------|---|
| Camera Effective Pixels | Approx. 3.2 million |
| Image Sensor | 1 / 2.7 in. CCD (Total number of pixels: approx. 3.3 million) |
| Lens | 5 mm (35 mm film equivalent: 33 mm), F3.6 |
| Digital Zoom | Maximum Approx. 5.1 X |
| Optical Viewfinder | Inverted Galilean viewfinder |
| LCD Monitor | 1.5 inch TFT color LCD, approx. 67,000 pixels |
| Autofocus | TTL 5-point AiAF / 1-point AF (Fixed to center), Focus lock possible |
| Focusing Range | Normal: 20 cm (7.9 in.) - ∞ Macro: 5 - 20 cm (2.0 - 7.9 in.) |
| Shutter | Mechanical + electronic |
| Shutter Speed | 1 - 1 / 2000 sec. • 1 - 1 / 6 sec. in manual mode with the flash off or in slow synchro mode. • Noise reduction processing on speeds between 1 - 1 / 6 sec. |
| Light Metering Method | Evaluative metering / Center-weighted average metering / Spot metering |
| Exposure Control | Program AE |
| Exposure Compensation | + / - 2 stops in 1 / 3 - stop increments |

| | |
|------------------------|--|
| Sensitivity | AUTO / ISO 50 / 100 / 200 / 400 equivalent |
| White Balance | TTL auto / preset (daylight, cloudy, tungsten, fluorescent, fluorescent H) or Custom white balance |
| Flash | Red-eye reduction auto / auto / on / off / slow-syncro |
| Flash Range | 20 cm - 2.0 m (0.67 - 6.7 ft.) (When sensitivity is set to AUTO) |
| Shooting Modes | Auto / manual / Stitch assist / movie |
| Continuous Shooting | Approx. 2.2 images / sec. (Large / Fine mode, LCD monitor off) |
| Self-Timer | Shoots after approx. 2 sec. or approx. 10 sec. |
| PC Connected Shooting | Available (USB connection only. Exclusive software program "RemoteCapture" is included in the camera kit.) |
| Recording Media | CompactFlash card (Type I) |
| File Format | Design rule for Camera File System, 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 |

● Specifications ●
















| | | |
|----------------------------------|---|---|
| Number of Recording Pixels | Still Images | Large : 2048 x 1536 pixels Medium 1: 1600 x 1200 pixels Medium 2: 1024 x 768 pixels Small : 640 x 480 pixels |
| | Movies | 640 x 480 pixels (Approx. 30 sec.)*2 320 x 240 pixels (Approx. 3 min.) 160 x 120 pixels (Approx. 3 min.) Approx. 15 frame / sec. • The data in parentheses refer to the maximum movie per clip. |
| Replay Modes | Single image replay / index replay (9 thumbnails) / zoomed view (LCD monitor zooms images up to maximum of approx. 10x) / auto play / sound memos (up to 60 sec.) / Image output to Card Photo Printer CP-100 / CP-10 and Bubble Jet Printer with the direct print function | |
| Display languages | English / Deutsch / Français / Nederlands / Dansk / Suomi / Italiano / Norsk / Svenska / Español / Chinese / Japanese | |
| My Camera Settings (customizing) | The Start-up image, Start-up Sound, Shutter Sound, Operation Sound and Selftimer Sound can be customized using the following methods. 1. Using the images and sounds recorded on the camera. 2. Using downloaded data from your computer using the supplied software. | |
| Interface | Universal Serial Bus (mini-B, PTP [Picture Transfer Protocol]) | |










| | |
|------------------------|--|
| Power Source | Two AA alkaline batteries (included), Two AA rechargeable NiMH batteries (optional) AC adapter kit ACK800 (optional) |
| Operating Temperatures | 0 - 40°C (32 - 104°F) |
| Operating Humidity | 10 - 90% |
| Dimensions (w x h x d) | 110 x 58 x 36.6 mm (4.3 x 2.3 x 1.4 in.) (excluding protrusions) |
| Weight | Approx. 175 g (6.2 oz.) (excluding batteries and CF Card) |

- *¹ This digital camera supports Exif 2.2 (also called "Exif Print"). Exif Print is a standard for enhancing the communication between digital cameras and printers. By connecting to an Exif Print-compliant printer, the camera's image data at the time of shooting is used and optimized, yielding extremely high quality prints.
- *² This is the maximum recording time per movie clip for the optional Canon FC-256HM CF card (not sold in some regions).




● Specifications ●

CF Cards and Estimated Capacities (Recordable Images)

| | | FC-16M | FC-32M | FC-64M | FC-128M | FC-256MH |
|--------------------------------|--|----------|----------|----------|----------|-----------|
| L (2048 x 1536 pixels) |  | 8 | 18 | 38 | 76 | 154 |
| |  | 16 | 33 | 68 | 137 | 276 |
| |  | 32 | 67 | 136 | 274 | 548 |
| M1 (1600 x 1200 pixels) |  | 14 | 30 | 61 | 122 | 246 |
| |  | 26 | 54 | 109 | 219 | 440 |
| |  | 52 | 108 | 217 | 435 | 868 |
| M2 (1024 x 768 pixels) |  | 25 | 53 | 107 | 215 | 431 |
| |  | 46 | 94 | 189 | 379 | 762 |
| |  | 84 | 174 | 349 | 700 | 1390 |
| S (640 x 480 pixels) |  | 58 | 120 | 241 | 482 | 962 |
| |  | 94 | 196 | 393 | 788 | 1563 |
| |  | 165 | 337 | 676 | 1355 | 2720 |
| Movie |  (640 x 480 pixels) | 14 sec. | 30 sec. | 61 sec. | 124 sec. | 249 sec. |
| |  (320 x 240 pixels) | 44 sec. | 91 sec. | 183 sec. | 368 sec. | 735 sec. |
| |  (160 x 120 pixels) | 118 sec. | 242 sec. | 486 sec. | 973 sec. | 1954 sec. |

- The maximum movie clip length is approximately 30 sec. ()* or 3 min. (, ). The times shown are the maximum continuous recording times.
* When used with the FC-256MH CF card (sold separately).
- **L** (Large), **M1** (Medium1), **M2** (Medium2), **S** (Small), ,  and  indicate the recording resolution.
-  (Superfine),  (Fine) and  (Normal) indicate the compression setting.
- The FC-256 MH CF card is not sold in some regions.

Approximate File Size for One Image

| | L (2048 x 1536 pixels) | M1 (1600 x 1200 pixels) | M2 (1024 x 768 pixels) | S (640 x 480 pixels) |
|---|----------------------------------|-----------------------------------|----------------------------------|--------------------------------|
|  Superfine | 1602 KB | 1002 KB | 570 KB | 249 KB |
|  Fine | 893 KB | 558 KB | 320 KB | 150 KB |
|  Normal | 445 KB | 278 KB | 170 KB | 84 KB |

Battery Performance

| | Number of Shots | | Replay Time |
|---|-------------------|-------------------|------------------|
| | LCD Monitor ON | LCD Monitor OFF | |
| AA Alkaline Batteries (included with the camera) | Approx. 75 shots | Approx. 210 shots | Approx. 90 min. |
| AA NiMH Battery NB-1AH | Approx. 200 shots | Approx. 450 shots | Approx. 120 min. |

• Data above depend on the test condition of Canon, and vary upon shooting condition and shooting mode.

<Test Conditions>

Shooting: Normal temperature (23°C / 73°F), alternating the shots every 20 seconds, flash used once every four shots, power turned off and on again after every 8 shots.

Replay: Normal temperature (23°C / 73°F), continuous replay at 3 seconds per image.

• For information on handling batteries, see "Proper Battery Handling" (p. 20).

● Specifications ●

NiMH Battery NB-1AH

Supplied with the optional NiMH Battery NB4-100 set and the Battery / Charger Kit CBK100.

| | |
|-----------------------|--|
| Type | Rechargeable nickel metal hydride battery |
| Nominal Voltage | 1.2 V DC |
| Typical Capacity | 1600 mAh (min.:1550 mAh) |
| Cycle Life | Approx. 300 times |
| Operating Temperature | 0 - 35 °C (32 - 95°F) |
| Dimensions | Diameter: 14.5 mm (0.6 in.) Length: 50 mm (2 in.) |
| Weight | Approx. 27 g (0.95 oz.) |

Battery Charger CB-3AH

Supplied with the optional Battery and Charger Kit CBK100.

| | |
|-----------------------|--|
| Rated Input | 100 - 240 V AC (50 / 60 Hz), 8W |
| Rated Output | 1.6 V DC / 2 A |
| Charging Time | Approx. 110 minutes for two batteries, 220 minutes for four batteries |
| Operating Temperature | 0 - 35 °C (32 - 95 °F) |
| Dimensions | 113 × 74 × 27.5 mm (4.4 × 2.9 × 1.1 in.) |
| Weight | Approx. 100 g (3.5 oz.) (body) |

Compact Power Adapter CA-PS800

Supplied with the optional AC Adapter Kit ACK800.

| | |
|-----------------------|---|
| Rated Input | 100 - 240 V AC (50 / 60 Hz), 16VA (100V) - 26VA (240V) |
| Rated Output | 3.15 V DC / 2 A |
| Operating Temperature | 0 - 40 °C (32 - 104 °F) |
| Dimensions | 42.5 × 104.4 × 31.4 mm (1.7 × 4.1 × 1.3 in.) |
| Weight (body) | Approx. 180 g (6.4 oz.) |

CompactFlash™ Card

| | |
|----------------|---|
| Card Slot Type | Type 1 |
| Dimensions | 36.4 × 42.8 × 3.3 mm (1.4 × 1.7 × 0.1 in.) |
| Weight | Approx. 10 g (0.4 oz.) |

Index

— A —

| | |
|---|-------|
| Adjusting the Exposure | 59 |
| AF | 32 |
| AF-assist Beam | 4, 33 |
| Approximate File Size for One Image | 133 |

— B —

Batteries

| | |
|----------------------------------|-----|
| Battery Performance | 133 |
| Battery Status Indications | 22 |
| Installing | 18 |
| Proper Battery Handling | 20 |

— C —

| | |
|--|-----|
| Camera Care and Maintenance | 122 |
| CF Card Slot / Battery Cover | 5 |
| CF Cards | |
| About CF Cards | 22 |
| CF Cards and Estimated Capacities (Recordable Images) | 132 |
| Formatting | 78 |

| | |
|-----------------------|----|
| Compression | 47 |
| Continuous Mode | 52 |

— D —

| | |
|--|--------|
| Date | 23 |
| DC IN Terminal | 4, 121 |
| Default | 112 |
| Default Settings | 38 |
| DIGITAL Terminal | 4, 83 |
| Digital Zoom | 34 |
| Downloading Images to a Computer | |
| Connecting the camera to a computer via the USB Cable | 101 |
| Downloading directly from a CF card .. | 104 |
| Using a PC card reader | 104 |
| DPOF | 92 |

— E —

| | |
|-----------------------------|----|
| Erasing | |
| Erasing All Images | 77 |
| Erasing Single Images | 77 |

— F —

| | |
|-------------------|-----|
| File Number | 65 |
| Flash | 49 |
| Focus Lock | 56 |
| FUNC. Menu | 105 |
| Functions | 142 |

— I —

| | |
|--|----|
| Image Transfer Settings (DPOF Transfer Order) | 98 |
| Index View | 67 |
| Indicator | 6 |
| Infinity | 51 |
| ISO Speed | 64 |

— L —

| | |
|-----------------------------|----|
| LCD Monitor | |
| Information Displayed | 30 |
| Using | 28 |
| Light Metering Modes | 58 |

— M —

| | |
|--------------------------|-------|
| Macro | 51 |
| Magnifying Images | 66 |
| Menus | 35 |
| Microphone | 4, 73 |
| Movie | |
| Editing | 69 |
| Movie Mode | 55 |
| Sound Memos | 73 |
| Viewing | 68 |
| My Camera Settings | 41 |

— P —

| | |
|--|-----|
| Photo Effect | 63 |
| Play Menu | 107 |
| Power-saving Function | 27 |
| Pressing Fully | 33 |
| Pressing Halfway | 33 |
| Printing | 79 |
| Connecting the Camera to a Printer | 82 |
| DPOF Print Settings | 92 |

| | |
|--|--------|
| Print Settings (Direct Print Function) | 87 |
| Print Style | 87, 94 |
| Printing | 85 |
| Printing with DPOF Print Settings | 96 |
| Resetting the Print Settings | 95 |
| Selecting from the Print Order Menu | 81 |
| Selecting Images for Printing | 92 |
| Protecting | 76 |

— R —

| | |
|--------------------------------------|--------|
| Rec. Menu | 106 |
| Red-Eye Reduction | 49, 50 |
| Red-Eye Reduction Lamp | 4, 49 |
| Replacing the Date Battery | 117 |
| Replaying | |
| Auto Play | 75 |
| Displaying Images Individually | 66 |
| Rotating Images in the Display | 72 |
| Viewing Images in Sets of Nine | 67 |
| Resolution | 47 |

— S —

| | |
|----------------------------|-----|
| Self-Timer | 52 |
| Set up Menu | 109 |
| Setting | |
| AF-assist Beam | 106 |
| AiAF | 106 |
| Auto Power Down | 109 |
| Beep | 109 |
| File No. Reset | 110 |
| Format | 109 |
| Setting the Language | 24 |
| Shooting | 46 |
| Shutter Button | 33 |
| Single Image Replay | 66 |
| Sound Memo | 73 |
| Speaker | 5 |
| Stitch Assist | |
| Framing a Subject | 53 |
| Shooting | 54 |
| Strap | 5 |

— T —

| | |
|----------------------------------|--------|
| Terminal Cover | 4, 102 |
| Time | 23 |
| Turning the Power ON / OFF | 26 |

— U —

| | |
|------------------------------------|-----|
| Using the Optional Battery Kits | |
| Using Rechargeable Batteries | 118 |

— V —

| | |
|------------------|----|
| Viewfinder | 32 |
|------------------|----|

— W —

| | |
|---------------------|----|
| White Balance | 60 |
|---------------------|----|

Disclaimer

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FCC Notice

(Digital Camera, Model PC1045)

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 cables with the ferrite core provided with the digital camera must be used with this equipment in order to comply with Class B limits in Subject B of Part 15 on 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.











Règlementation 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 following chart shows the functions and settings available in each shooting mode. The camera stores settings separately for each mode.

| Function | |  |  |   |  | Reference Pages |
|---|---|---|---|--|---|-----------------|
| Resolution | Large L * / Middle 1 M1 Middle 2 M2 / Small S | ○ | ○ | △ | — | p. 47 |
| | Movie 640 / 320 * / 160 | — | — | — | ○ | |
| Compression | SuperFine  | ○ | ○ | △ | — | p. 47 |
| | Fine  | ○* | ○* | △* | — | |
| | Normal  | ○ | ○ | △ | — | |
| Flash | Auto  | ○ | ○ | — | — | p. 49 |
| | Red-eye reduction, Auto  | ○* | ○* | — | — | |
| | On  | — | ○ | △ | — | |
| | Off  | ○ | ○ | △* | ○* | |
| | Slow-Synchro  | — | ○ | △ | — | |
| Macro Mode  | ○ | ○ | △ | ○ | p. 51 | |
| Infinity Mode  | — | ○ | △ | ○ | p. 51 | |

| Function | | |  |  |  |  | Reference Pages |
|-----------------------|---------------------------|---|---|---|--|---|-----------------|
| Shooting Method | Single |  | ○* | ○* | △* | ○* | p. 52 |
| | Continuous |  | — | ○ | — | — | |
| | Self-Timer |  | ○ | ○ | △ | ○ | |
| Exposure Compensation | | | — | ○ | △ | ○ | p. 59 |
| Light Metering | Evaluative Metering |  | — | ○ | — | — | p. 58 |
| | Center-Weighted Averaging |  | — | ○ | — | — | |
| | Spot Metering |  | — | ○ | — | — | |
| White Balance | | | — | ○ | △ | ○ | p. 60 |
| Photo Effect | | | — | ○ | △ | ○ | p. 63 |
| ISO Speed | | | — ⁽¹⁾ | ○ | — ⁽¹⁾ | — ⁽¹⁾ | p. 64 |
| AF Frame | | | — | ○ | — | — | p. 57 |
| Digital Zoom | | | ○ | ○ | — | — | p. 34 |
| AF-Assist Beam | | | ○ | ○ | △ | ○ | p. 33 |

* : Default settings ○ : Available △ : Available only for the first image

⁽¹⁾ The camera will automatically select the setting.

 : Setting is retained even after power off.