

Canon

ENGLISH

# PowerShot A10

# PowerShot A20

DIGITAL CAMERA

## Camera User Guide



- 1 Shooting with the Camera  This Guide
- 2 Installing the Software  Software Starter Guide
- 3 Connecting the Camera to a Computer  This Guide
- 4 Downloading Images to a Computer  Software Starter Guide

- This guide covers both the PowerShot A10 and PowerShot A20 digital cameras.
- Please start by reading the "Precautions" section on the reverse side of this cover.
- For information about how to use the Card Photo Printer CP-10, please refer to the CP-10's *User Guide*.



## Precautions

### Camera Body Temperature

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

### About the LCD Monitor

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

### Video Format

Please set the camera's video signal format to the one used in your region before using it with a TV monitor (→ p. 85).

**Please read through the “Read This First” section (→ p. 4) before using your camera.**

### Disclaimer

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<b>Quick Start</b>	A quick introduction intended for new users who want to shoot first and learn more later. Tells you how to get the camera running and how to begin shooting and playing back images.
<b>Preparing the Camera</b>	Introduces you to all of the camera components, and explains how to load batteries and insert a CF card.
<b>Basic Functions</b>	Explains how to turn the camera on, how to use the viewfinder and LCD monitor, and how to operate the shutter button and the zoom.
<b>Shooting</b>	Describes the three different shooting modes, and explains how to set the resolution and compression, how to use the flash, and how to use the camera's various shooting features.
<b>Replaying</b>	Explains how to review recorded images one at a time or in index form, how to rotate them or magnify them on the display, and more. Also explains how you can protect images.
<b>Erasing</b>	Explains how to erase recorded images from the CF card.
<b>Printing</b>	Explains how to make print settings, and how to print directly to the optional Card Photo Printer CP-10.
<b>Camera Settings</b>	Explains how to make various operational settings: how to format a CF card, how to reset the file number, how to turn the beep sound off, and more. Also explains how to make other camera settings.
<b>Connecting Up</b>	Explains how to transfer recorded images to a computer. Also explains how you can connect the camera to a TV set.
<b>Appendix</b>	Explains how to replace the Date battery and how to use various separately sold accessories, such as the AC Adapter Kit, the Battery and Charger kit, and Wide Converter.

# Table of Contents

<b>Read This First</b>	<b>4</b>
<b>Quick Start</b>	<b>10</b>
<b>Preparing the Camera</b>	<b>13</b>
Guide to Components .....	13
Installing the Batteries .....	17
Installing a CF Card .....	20
Attaching the Wrist Strap .....	23
Setting the Date and Time .....	24
Setting the Language .....	26
<b>Basic Functions</b>	<b>28</b>
Turning the Camera On .....	28
Using the Viewfinder .....	29
Using the LCD Monitor .....	30
Information Displayed on the LCD Monitor ....	32
Pressing the Shutter Button .....	34
Using the Zoom .....	36
<b>Shooting</b>	<b>37</b>
Selecting a Shooting Mode .....	37

Changing Resolution/Compression Setting ...	37
 Using the Flash .....	39
 /▲ Shooting Close-Ups/Infinity Shots .....	42
Using the Focus Lock .....	43
 Using the Self-Timer .....	44
 Shooting Continuously .....	45
 Adjusting the Exposure Compensation .....	46
<b>WB</b> Setting the White Balance .....	47
 Stitch Assist Mode .....	49
Functions Available in Each Shooting Mode ..	52

## **Replaying** **53**

Displaying Images Singly (Single Image Replay) .....	53
 Displaying Images in Sets of Nine (Index Replay) .....	54
Rotating Images in the Display .....	56
Automating Playback (Auto Play) .....	57
Protecting Images .....	58

## **Erasing** **59**

Erasing Images Singly .....	59
-----------------------------	----

Erasing All Images .....	60
--------------------------	----

## **Print Settings (DPOF Settings) 62**

Displaying the Print Order Menu .....	62
Setting the Print Style .....	63
Selecting Images for Printing .....	65
Resetting the Print Settings .....	67

## **Printing with the Card Photo Printer CP-10 69**

Connecting the Card Photo Printer CP-10 .....	69
Printing .....	71
Printing with DPOF Print Settings .....	72
Setting the Print Style .....	75

## **Camera Settings 78**

Displaying the Rec. Menu .....	78
Changing the Image Review Time .....	79
Resetting the File Number .....	80
Setting the Beep On/Off .....	82
Formatting a CF Card .....	83
Changing Other Settings .....	84

## **Connecting the Camera to a TV Set 86**

## **Downloading Images to a Computer 87**

Downloading Directly from a CF Card .....	87
Connecting the Camera to a Computer with a USB Cable .....	90

## **Appendix 94**

Replacing the Date Battery .....	94
Using the Optional Battery Kits .....	96
Using Optional Lenses and Lens Adapters .....	99
Using the Soft Case (Optional) .....	102
Camera Care and Maintenance .....	103
Troubleshooting .....	104
List of Messages .....	109
Specifications .....	112

## **Index 116**

## **Canon Customer Support 118**

## **Please Read**

### **Test Shots**

Before you shoot images of subjects of importance to you, we strongly recommend that you shoot several trial images to confirm that you are operating the camera correctly. Please note that Canon, its subsidiaries and affiliates, and distributors of its digital cameras are not liable for any consequential damages arising from any malfunction of the Canon digital camera or CompactFlash™ card (CF card) resulting 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 must be used in a manner that respects international and 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 recorded 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.

## 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.

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- 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 battery and unplug the power cord from the electrical outlet. Confirm that smoke or fume emissions have ceased. Please consult your camera distributor or the closest Canon Customer Support Help Desk.
- 
- Stop operating the equipment if it is dropped or the casing is damaged. Failure to do so may result in fire or electrical shock. Immediately turn the camera's power off, remove the camera battery and unplug the power cord from the electrical 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 battery or unplug the power cord from the electrical 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.
- 
- 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.
-

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- 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, or clothing, that comes into contact with the inner contents of a battery. If the eyes or mouth contact these substances, immediately flush with water and seek medical assistance.
- 
- Avoid dropping or subjecting the batteries to severe impacts that could damage the casings. It could lead to leakage and injury.
- 
- Do not short-circuit the battery terminals with metallic objects, such as key holders. It could lead to overheating, burns and other injuries.
- 
- 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.
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- If using AA-size NiMH batteries, use only Canon AA-size NiMH batteries and 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 the compact power adapter from both the camera and electrical 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.
  - Exercise due caution when screwing on the separately sold wide converter, close-up lens and conversion lens adapter. If they loosen, fall off and shatter, the glass shards may cause an injury. Never aim the lenses at the sun or strong light sources. There is a risk of damage to eyesight.
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## CAUTIONS

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

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- If your camera is used for prolonged periods, the camera body may become warm. Please take care when operating the camera for an extended period 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.

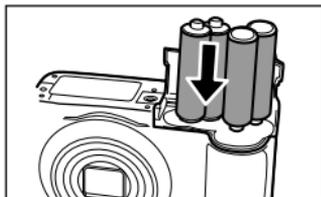
### **If Condensation Forms Inside the Camera**

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 battery 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.

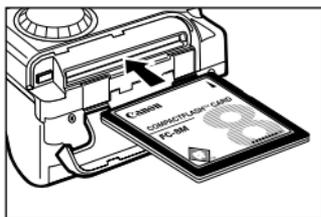
# Quick Start



## 1 Install the batteries (→ p. 17).

Slide the battery cover lock, then open the cover and insert the batteries.

- For important information about batteries, see page 18.



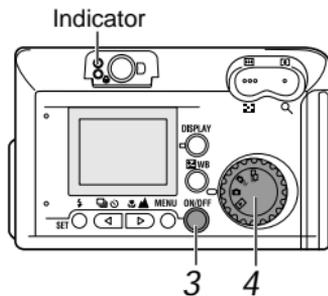
## 2 Install the CF card (→ p. 20).

Open the CF card slot cover and insert a CF card.

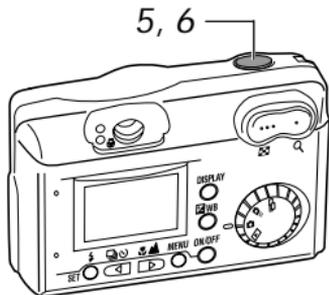
## 3 Press the main switch to turn the camera on (→ p. 28).

Hold the main switch down until the indicator next to the viewfinder starts flashing green.

- If the LCD monitor displays the Set Date/Time menu, set the date and time (→ p. 24).



## 4 Turn the mode dial to (Auto) (→ p. 37).



## 5 Set the focus (→ p. 34).

Aim the camera at the subject, and lightly press and hold the shutter button halfway down. The camera beeps twice when the focus is set.

## 6 Take the shot (→ p. 34).

Press the shutter button all the way down. The camera beeps once to indicate that it has taken the shot.

## 7 View the recorded image.

The recorded image displays on the LCD monitor for approximately 2 seconds (→ p. 35).

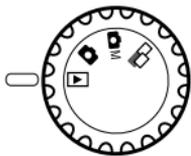
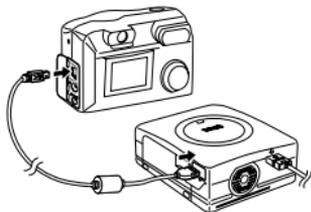
For information about how to view other image that you have already taken, see “Replaying” (→ p. 53).

### Quick Erase

- 1 Press the / WB button while the image is displayed.
- 2 Press button to select [OK], and then press the SET button.



- To print recorded images: → Step 8.  
(Requires the optional Card Photo Printer CP-10.)



**8 Connect the camera to the printer (→ p. 69).**

Make the connection using the direct interface cable DIF-100 that came with the printer.

**9 Turn the mode dial to  (Replay) (→ p. 70).**

**10 Use  or  button to select the image you wish to print, and then press the SET button.**

The LCD monitor displays the print menu.

**11 Press  or  button to select [OK], and press the SET button.**

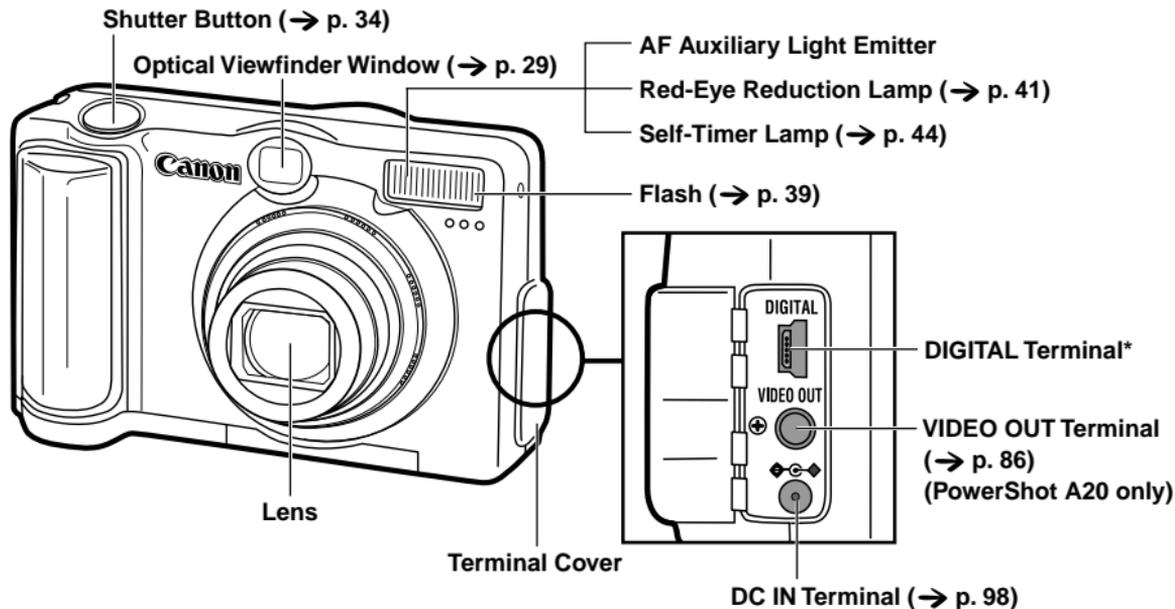
The printer starts printing the selected image.

When you have finished using the camera, turn it off by pressing the main switch. If you have been using the Card Photo Printer CP-10, unplug the printer from the power outlet.

# Preparing the Camera

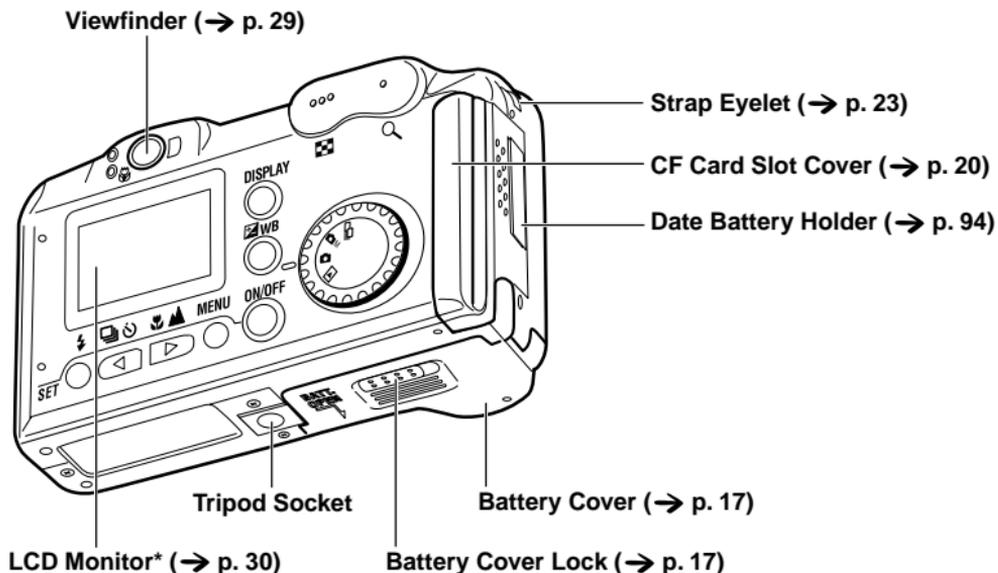
## Guide to Components

### Front View



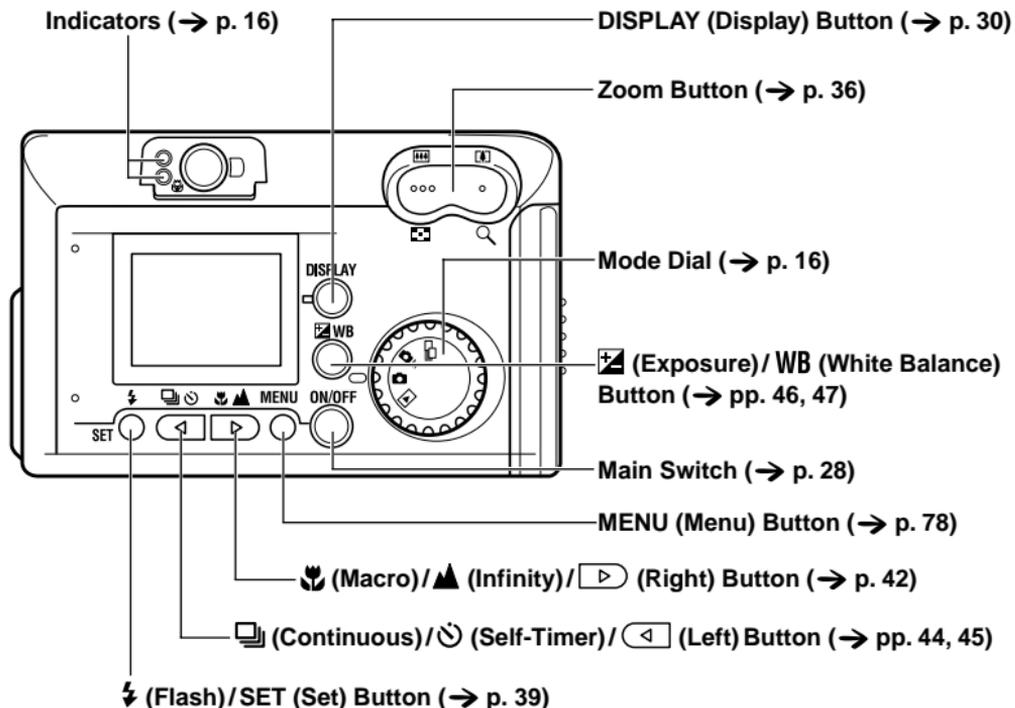
\* If connecting to the optional Card Photo Printer CP-10, use the direct interface cable DIF-100 included with the printer. If connecting to your computer, use the dedicated USB cable included with the camera.

## Back View



\* The LCD monitor is covered with a thin plastic sheet for protection against scratches during shipment. Remove it before using the camera.

## Operation Panel



## Mode Dial

You use the mode dial to select the camera's operating mode.

### (Auto)

The camera automatically makes most of the settings for you (→ p. 37).

### M (Manual)

You can adjust the exposure, white balance, and other settings before shooting (→ p. 37).

### (Stitch Assist)

Use this mode when taking shots that you want to stitch into a panorama (→ p. 49).

### (Replay)

- Replay or delete images from the CF card (→ pp. 53, 59).
- Download and display images at your computer (→ p. 87).
- Print images directly to the optional Card Photo Printer CP-10 (→ p. 69).

- The LCD monitor displays the  mark if the camera is connected to the printer correctly.
- The LCD monitor goes off when the camera is connected to a computer.

## Indicators

The upper indicator comes on when you turn on the power and whenever you press the shutter button.

### Upper Indicator

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

Flashing Green: Camera is busy processing (starting up; accessing the CF card, or transmitting data to your computer).

Orange: Ready to shoot, using the flash.

Flashing Orange: Ready to shoot, but camera is not steady (This warns you that the picture may come out blurred.).

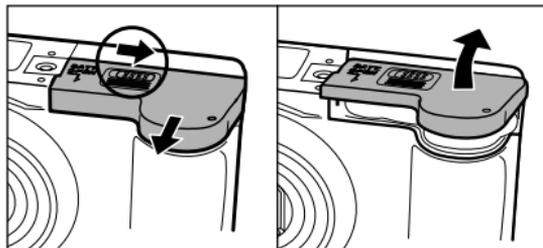
## Lower Indicator

Yellow: Macro mode

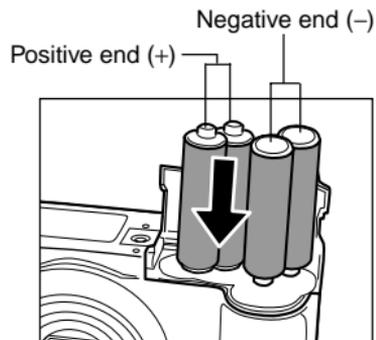
## Installing the Batteries

The camera uses four AA sized alkaline batteries supplied with the camera. You may use optional nickel metal hydride (NiMH) batteries.

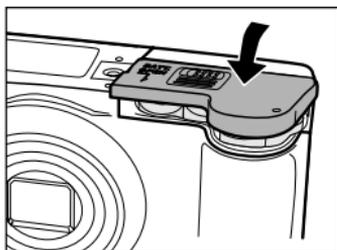
- 1 Be sure that the camera power is off.**
- 2 Slide the battery cover lock, and push the battery cover slightly forward. Then open the cover.**



- 3 Insert the batteries as shown.**



## 4 Close the battery cover.



When the camera's indicator flashes 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.

- We recommend that you use the optional AC Adapter Kit ACK600 to power the camera during long usage sessions (→ p. 97).

- The optional battery charger kit (Battery and Charger Kit CBK100) lets you use rechargeable NiMH batteries to power the camera (→ p. 96).

## Proper Battery Handling

- Use AA-size alkaline or Canon AA-size NiMH batteries only.
- Never use manganese or lithium batteries, as these battery types may overheat in the camera.
- While it is possible to use AA-size nickel-cadmium batteries, performance is unreliable and their use is not recommended.
- Never mix new and partially used batteries. Always load four fresh (or fully recharged) batteries at the same time.
- Never mix batteries of different types or from different manufacturers. All four batteries should be identical.

- 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.
- When purchasing replacement alkaline batteries, please buy the same type of batteries that came with the camera.

**⚠ WARNING**

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.

## Battery Performance

	Number of Shots		Replay Time
	LCD Monitor ON	LCD Monitor OFF	
AA Alkaline Batteries (included with the camera)	Approx. 200 shots	Approx. 500 shots	Approx. 240 min.
AA NiMH Battery NB-1AH	Approx. 350 shots	Approx. 1000 shots	Approx. 240 min.

\* The actual performance may vary from the above data according to the shooting conditions and the selected recording mode.

### <Test Conditions>

Shooting: Room temperature (23 °C, 73 °F), alternating between wide angle and telephoto every 20 seconds, flash used one in four shots, power turned off and on again after every eighth shot.

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

## Battery Status Indications

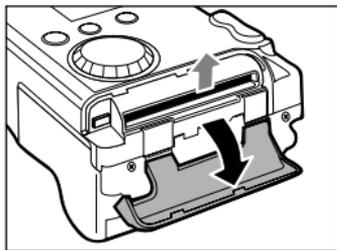
The LCD monitor displays an icon or message to let you know when batteries are low or depleted.

	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:  ,  , or  .
Change the batteries	Batteries are fully depleted and the camera can no longer operate. You should replace the batteries immediately.

## Installing a CF Card

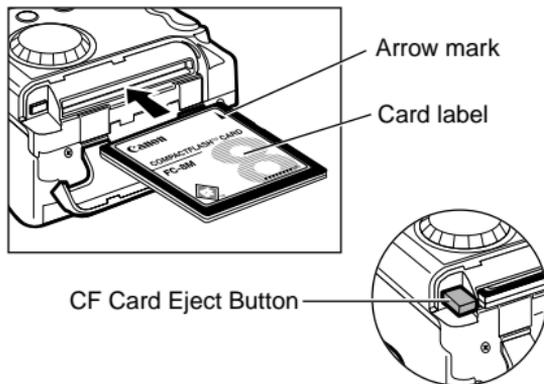
- 1 Be sure that the camera is turned off.**

**2** Slide the CF card slot cover in the direction of the gray arrow, and open it.



**3** Insert the CF card into the slot, in the direction shown in the illustration.

- Insert the CF card all the way into the slot, so that the CF card eject button pops all the way out.
- To remove the CF card, press the CF card eject button.



**4** Close the CF card slot cover securely.

- The upper indicator flashes green whenever the camera is recording, reading or deleting images to and from a CF card, or transmitting data to a computer. Never turn the camera off or jolt the camera while the indicator is flashing, as doing so may cause loss or damage to the data in the card.

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

## 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.

- Place the CF card in the supplied case for storage.
- 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

## CF Cards and Estimated Capacities (Recordable Images)

### PowerShot A10

		FC-8M	FC-16M	FC-32M	FC-64M	FC-128M
L		10	21	43	88	177
		16	32	67	135	271
		32	64	131	263	528
M		16	32	67	135	271
		24	49	102	205	412
		46	92	189	379	760
S		35	70	143	288	577
		50	99	206	415	831
		87	172	353	707	1417

## PowerShot A20

		FC-8M	FC-16M	FC-32M	FC-64M	FC-128M
L		7	15	31	64	128
		11	24	49	100	200
		24	48	99	200	401
M		16	32	67	135	271
		24	49	102	205	412
		46	92	189	379	760
S		35	70	143	288	577
		50	99	206	415	831
		87	172	353	707	1417

These figures reflect standard shooting conditions established by Canon. Actual totals may vary according to the subject, shooting conditions and shooting mode.

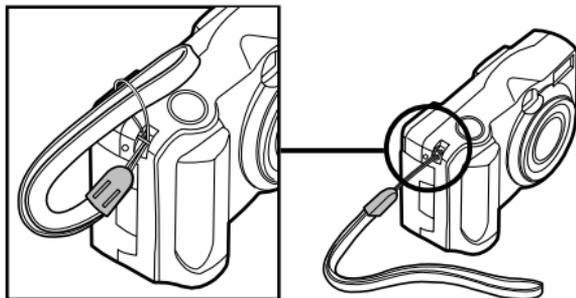
- In the previous tables, **L** (Large), **M** (Medium) and **S** (Small) refer to the following image resolutions (in pixels).

	PowerShot A10	PowerShot A20
L	1280 × 960	1600 × 1200
M	1024 × 768	1024 × 768
S	640 × 480	640 × 480

-  (Superfine),  (Fine),  (Normal) indicate the compression setting.

## Attaching the Wrist Strap

Push the looped string under and around the metal strap eyelet, and then pass the strap through the loop.

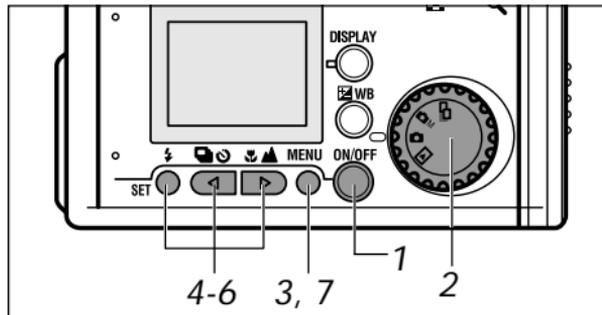


Be careful when carrying the camera by the strap. Don't swing the camera on the strap, and keep the strap and camera body clear of obstacles.

## Setting the Date and Time

If the Set Date/Time menu appears when you turn on the camera, this means that the date battery has run down and the camera date/time clock has stopped running. Replace the date battery (→ p. 94), then reset the date and time as explained below.

The Set Date/Time menu also appears the very first time you turn on the camera. To make the date/time settings the first time you turn the camera on, begin from Step 6.



- 1 Press the main switch to turn on the camera (→ p. 28).**
- 2 Turn the mode dial to , , or .**

### 3 Press the MENU button.

The [Rec. Menu] will display.

Display on the  
PowerShot A20



### 4 Press $\leftarrow$ or $\rightarrow$ button to select $\text{[i]}$ , and then press the SET button.



### 5 Press $\leftarrow$ or $\rightarrow$ button to select $\text{[i]}$ , and then press the SET button.

### 6 Set the date and time.

- Use  $\leftarrow$  or  $\rightarrow$  button to change the value of the highlighted field.
- Press the SET button to set the value and advance to the next field.
- The final item selects the date display type. Use  $\leftarrow$  or  $\rightarrow$  button to select, and then press the SET button.

The factory default for the date format in some regions may differ from that shown.

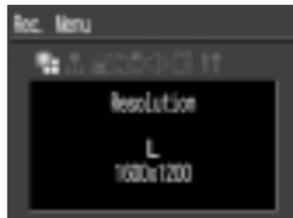


### 7 Press the MENU button.

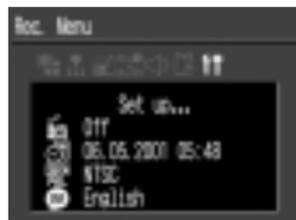
## Setting the Language

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

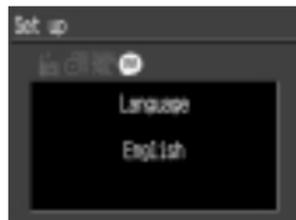
- 1 Turn the mode dial to , M, or .
- 2 Press the MENU button.  
The [Rec. Menu] will display.



- 3 Press  or  button to select , and then press the SET button.



- 4 Press  or  button to select , and press the SET button.



## 5 Select the desired language.

- Use ◀ and ▶ button to select a language.



The Language menu may appear differently on cameras in some regions.

## 6 Press the SET button.

If you wish to cancel, press the **MENU** button instead.

## 7 Press the MENU button.

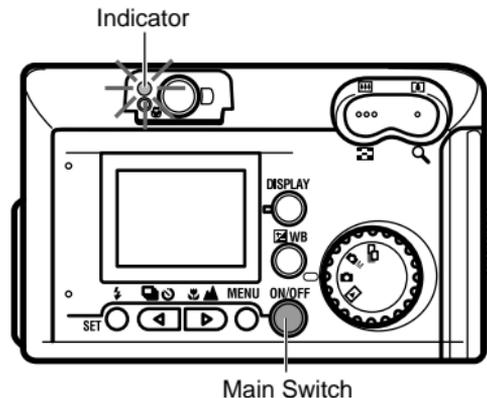
The Language menu can also be displayed in replay mode by holding down the **SET** button and pressing the **MENU** button.

# Basic Functions

## Turning the Camera On

**1 Press the main switch until the green indicator begins flashing.**

	The lens extends, and the LCD
	monitor displays current shooting
	settings for about 6 seconds.
	The LCD monitor displays an image.



If the Set Date/Time menu appears, set the date and time (→ p. 24).

- The lens remains extended while the mode dial is set to , , or . If you turn the mode dial to , the lens will retract after approximately 1 minute.
- If the auto power down function activates, press the main switch again to restore power.

## Auto Power Down 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.

## Connected to Card Photo Printer CP-10

The power will automatically shut off approximately 5 minutes after the last camera function is accessed or Card Photo Printer CP-10 (sold separately) ceases to print an image.

## While Connected to a Computer

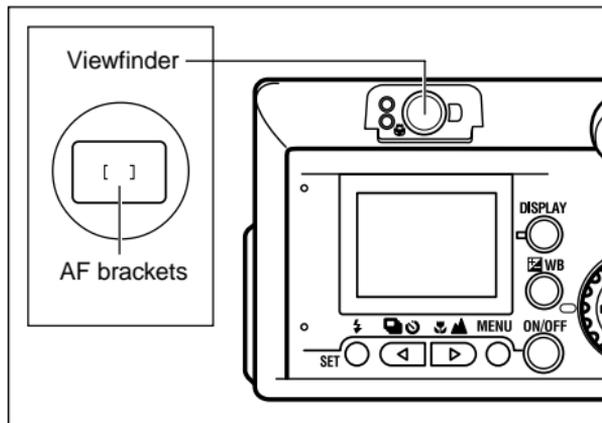
A warning message will appear on the computer screen approximately 5 minutes after the last function is accessed. The power will automatically shut off approximately 1 minute later if no functions are accessed.

- The auto power down function will not activate while the camera is in auto play mode (→ p. 57).
- The camera's settings can be changed to turn off the auto power down function (→ p. 84).

## Using the Viewfinder

The camera includes an optical viewfinder.

- 1 **Align the square brackets (autofocus metering field) inside the viewfinder on the primary subject to compose the image.**



In macro mode, the parallax phenomenon may cause images composed with the viewfinder to be off-center. Use the LCD monitor to compose close-ups in macro mode.

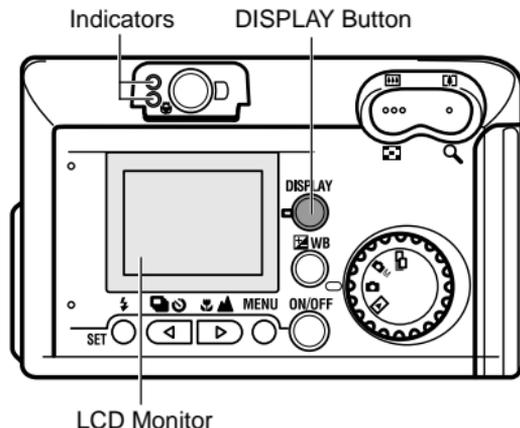
### About the Autofocus Function

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

## Using the LCD Monitor

The LCD monitor can be used to compose images while shooting, adjust settings menus and replay 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.



## In and M Modes...

You can use the **DISPLAY** button to switch the LCD monitor display on and off.

The camera stores the LCD monitor on/off setting in memory, and restores it when you turn the camera on again. If the camera displays the “Change the batteries” at time of power-on, however, then the LCD monitor may remain off the next time you turn on the camera.

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

## In Mode...

- The LCD monitor always comes on when you turn the mode dial to .
- You can use the **DISPLAY** button to switch the amount of information shown on the display.

### Single Image Replay

Standard → Detailed → No display

### Index Replay (9 images)

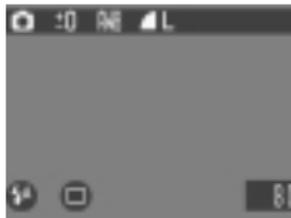
Standard → No display

## Information Displayed on the LCD Monitor

### Shooting Mode

Shooting information appears on the LCD monitor for approximately 6 seconds when you take any of the following actions. With one exception, this information appears even if the monitor is turned off.

- The power is turned on.
- The **DISPLAY**, ,  or  button is pressed.
- The camera settings are changed.
- The Setup menu is closed.
- The shutter button has been pressed and a shot has been taken (LCD monitor must be on).



Remaining Image Capacity

The following information appears on the LCD monitor.

Shooting Mode		  	p. 37
Exposure Compensation		 ...  ... 	p. 46
White Balance		     	p. 47
Compression		  	p. 37
Resolution		  	p. 37
Flash		    	p. 39
Shooting Method		  	p. 45
Macro/Infinity		 	p. 42
Zoom	A10	×3.8 ×4.8 ×6.0	p. 36
Settings*	A20	×3.8 ×4.7 ×6.0 ×7.5	
Camera Blur Warning			p. 31

If you wish to select the flash mode, select macro or infinity mode, select the self-timer, or select continuous shooting, the information shown in gray above must be visible on the monitor. If this information is

not on the monitor, you can bring it back by pressing **DISPLAY**, ,  or  or /  button.

\* The displayed zoom setting is the combined effect of the optical and digital zooms. It displays when the digital zoom is activated.

## Replay Mode (Standard Display)

In standard display mode, the following information is displayed.

- File Number
- Image Number (Image Number/Total Number of Images)
- Shooting Date and Time
- Compression (, , )
- Resolution (, , )
- Protect Status () and other relevant information

## Replay Mode (Detailed Display)

In detailed mode, the following information is also shown.

Shooting Mode	  	p. 37
Macro/Infinity Mode	 	p. 42
Shooting Method	  	p. 45
Flash		p. 39
Exposure Compensation	 ...  ... 	p. 46
White Balance	     	p. 47

The following information may also be displayed with some images.

- ♪ : A sound file (WAV file) is attached.
- ♪? : A sound file in a format other than the WAV format is attached or the file format is not recognized.
- ⚠ : A JPEG file not supported by “Design rule for Camera File system” standards.
- RAW : RAW format file.
- AVI : Movie file.
- ? : File with unrecognized format.

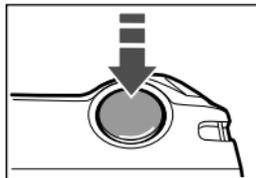
The image information may not display correctly if images shot with this camera are replayed on other cameras or images from other cameras are replayed on this camera.

## Pressing the Shutter Button

The shutter button has a two-step action: *halfway* press and *full* (or *all the way*) press.

### Pressing halfway

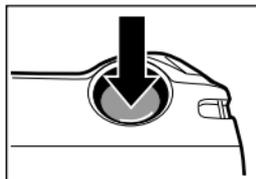
**Press the shutter button lightly.**



When you press the button down halfway, the camera automatically sets the focus, exposure, and white balance. When the camera has finished making these settings, it beeps twice and the upper indicator comes on green (→ p. 16).

### Pressing fully

**Press the shutter button harder.**



The camera beeps once and takes the shot. The indicator flashes green while the camera writes the image data to the CF card.

Recorded images are temporarily stored in the camera's internal memory and then written to the CF card. The next image can be recorded immediately after the first as long as sufficient internal memory is available.

## Reviewing an Image Immediately after Recording It

Images display on the LCD monitor for approximately 2 seconds immediately after recording even if you release the shutter button (You can change the time to display the image. → p. 79). Images can also be reviewed with the following procedures.

### **Keep the shutter button down.**

If you continue to press the shutter button fully after shooting, the image will display until the button is released (→ p. 30).

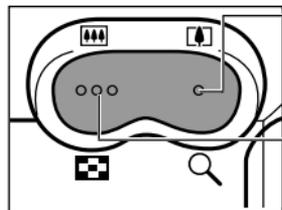
### **Press the SET button.**

If you press the **SET** button while continuing to press the shutter button fully, it will continue to display even when you release the shutter button. To cancel the review, press the shutter button halfway (→ p. 15).

## Using the Zoom

The zoom can be adjusted to any setting in the 35 to 105 mm range in 35 mm film equivalent terms.

### Telephoto/Wide Angle

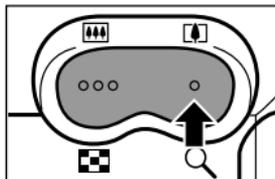


 button: Press this button to zoom in for a telephoto shot.

 button: Press this button to zoom out for a wide-angle shot.

### Digital Zoom

When the LCD monitor is on, you can digitally zoom in on a subject with the zoom button once it is at the maximum optical telephoto setting. Images can be zoomed up to 6 times (PowerShot A10), 7.5 times (PowerShot A20), which combines the effect of the optical zoom.



Hold down the  button until the camera stops zooming in.

Now press and hold the  button again. The camera zooms in further.

To zoom back out, press the  button.



The displayed zoom setting is the combined effect of the optical and digital zooms.

Note that the image appears grainier, the more the image is digitally zoomed.

The digital zoom is not available in the  mode.

# Shooting

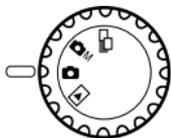
## Selecting a Shooting Mode

Your camera offers three different shooting modes.

	Auto	The camera makes most of the settings automatically.
	Manual	You manually set the exposure, white balance, and various other shooting parameters.
	Stitch Assist	Use this mode when taking shots that you want to stitch into a panorama.

The settings you make in each mode are retained even after you switch into a different mode. Many of these settings are retained after the camera turns off (→ p. 52).

### 1 Select a shooting mode.



## Changing Resolution/Compression Setting

The camera offers you a choice of three resolution settings and three compression settings. Image size increases as you move from small to medium to large resolution (**S**→**M**→**L**), and image quality increases as you move from normal to fine to superfine compression (**N**→**F**→**S**). If you intend to use a shot to create a large print, you should set the resolution to **L** (Large). If you plan to print the shot on a sticker, mail it over the Internet, or display it on your computer, or if you wish to fit many shots onto a single CF card, then you should set the resolution to **S** (Small).

## Resolution (in pixels)

	PowerShot A10	PowerShot A20
<b>L</b> (Large)	1280 × 960	1600 × 1200
<b>M</b> (Medium)	1024 × 768	1024 × 768
<b>S</b> (Small)	640 × 480	640 × 480

## Compression

<b>S</b>	Superfine
<b>F</b>	Fine
<b>N</b>	Normal

- 1 Turn the mode dial to , , or .
- 2 Press the MENU button.  
The [Rec. Menu] will display.
- 3 Press  or  button to select  (Resolution) or  (Compression), and then press the SET button.



Display on the PowerShot A20

- 4 Press  or  button as necessary to adjust the setting.

 (Resolution)



 (Compression)



Display on the PowerShot A20

- 5 Press the MENU button.

## Approximate File Size for One Image

PowerShot A10			
<b>L</b> (1280 × 960)	693KB	450KB	228KB
<b>M</b> (1024 × 768)	450KB	294KB	155KB
<b>S</b> ( 640 × 480)	208KB	141KB	79KB

PowerShot A20			
<b>L</b> (1600 × 1200)	957KB	611KB	302KB
<b>M</b> (1024 × 768)	450KB	294KB	155KB
<b>S</b> ( 640 × 480)	208KB	141KB	79KB

- These figures reflect standard shooting conditions established by Canon. Actual totals may vary according to the subject and shooting conditions.

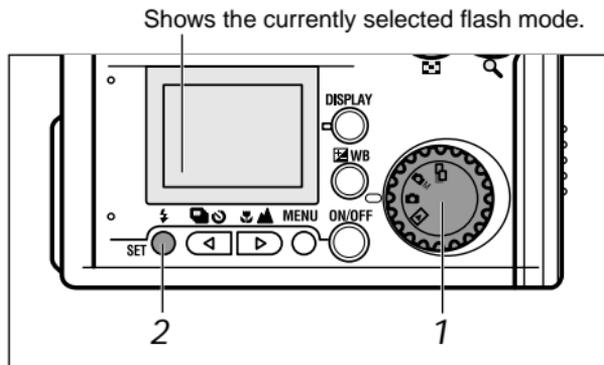
- These settings can only be adjusted for the first frame in  mode.
- Resolution and compression setting are retained even after camera is turned off.
- For information about the image capacities of each CF card type, see page 22.

## Using the Flash

You can set the flash mode to match the shooting conditions.

	Red-Eye Reduction, Auto	The flash may fire automatically as required by the light level. The red-eye reduction lamp fires with each shot.
	Auto	The flash fires automatically as required by the light level.
	On	The flash will fire.
	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 lamp fires with each shot. Use of a tripod is recommended.

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.



**1** Turn the mode dial to , , or .

**2** Press the  button as necessary to select the desired flash mode.

			
	○	○	—
	○	○	—
	—	○	△
	○	○	△
	—	○	△

○ : Available

△ : Available, but cannot be changed after taking the first shot

— : Not available

**3** Take the shot.

- The flash can be fired when the upper indicator glows a steady orange.
- The flash may take approximately 10 seconds to charge. Recharging time may vary with the state of the battery charge.

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 blur under these conditions.

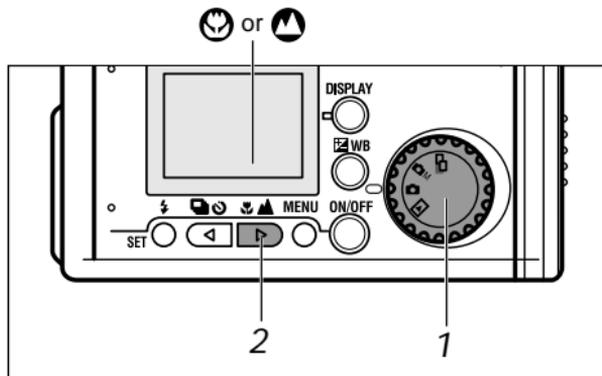
- Shooting in  Mode  
Be careful to hold the camera still to avoid camera blur.
- Shooting in  M or  Mode  
Fix the camera to a tripod to shoot in the  M or  mode since the shutter speed will be slower than in the  mode. If an image is dark in  mode, reshooting it in  M mode will make it brighter.

## Red-Eye Reduction

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

## Shooting Close-Ups/ Infinity Shots

	Macro Mode	Use this mode to record subjects in the range of 16 to 76 cm (6.3 in. to 2.5 ft.) from the lens tip when at maximum wide angle and in the range of 26 to 76 cm (10.2 in. to 2.5 ft.) when at the maximum telephoto setting.
	Infinity Mode	Use this mode to record landscapes and distant objects. It can also be used for compositions combining both near and distant objects.



- 1** Turn the mode dial to , , or .
- 2** Press the  button to select  or .

			
	○	○	△
	—	○	△

○ : Available

△ : Available, but cannot be changed after taking the first shot

— : Not available

### 3 Take the shot.

- Use the LCD monitor to compose close-ups in macro mode since the parallax phenomenon may cause images composed with the optical viewfinder to be off-center.
- The exposure may not be optimal when the flash is used in macro mode in the range of 16 to 26 cm (6.3 to 10.2 in.).

## Using the Focus Lock

The following types of subject 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

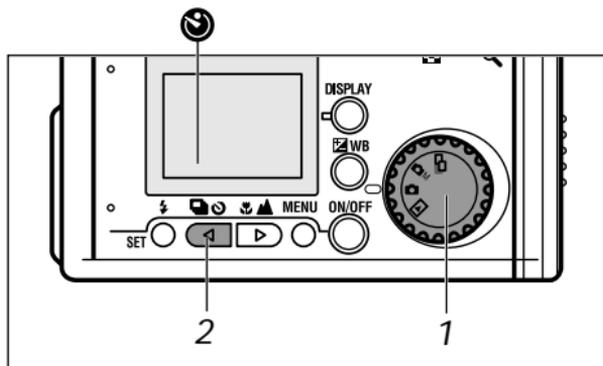
Try to shoot as close to the glass as possible to reduce the chances of light reflecting back off the glass.

## How to Use the Focus Lock

- 1 Aim the camera so that a subject at the same focal distance as the main subject is centered in the brackets in the optical viewfinder.

- 2 Press the shutter button halfway (→ p. 34), and wait until the camera beeps twice.
- 3 Re-aim the camera to compose the shot as desired and press the shutter button all the way (→ p. 34).

## ⌚ Using the Self-Timer

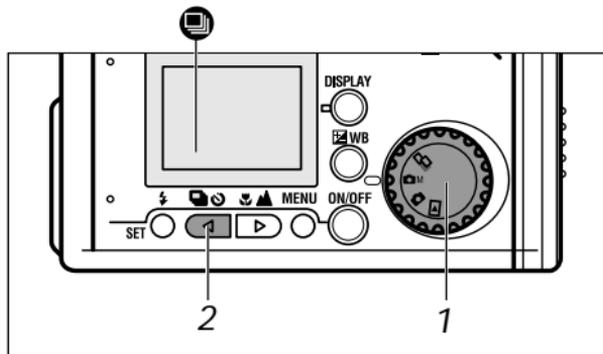


- 1 Turn the mode dial to , M, or .
- 2 Press the / button as necessary so that the appears on the LCD monitor.
- 3 Take the shot.

The self-timer starts when you press the shutter down all the way. The self-timer lamp flashes for 10 seconds (flashing more quickly for the final 2 seconds), and then the camera takes the shot.

## Shooting Continuously

Use this mode to shoot successive frames while the shutter button is pressed.



**1** Turn the mode dial to  M.

**2** Press the  /  button as necessary so that the  appears on the LCD monitor.

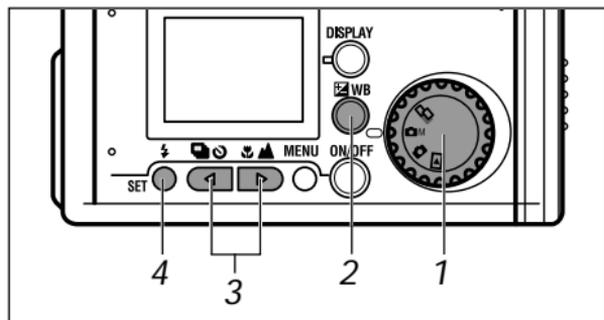
**3** Press the shutter button down all the way to start shooting.

To stop shooting, release the shutter button.

- The camera will shoot continuously at the speed of approx. 2.5 images per second\* (When the LCD monitor is OFF in Large/ Fine mode).
  - \* The figures reflect standard shooting conditions established by Canon. Actual figures may vary according to the subject and shooting conditions.
- The camera will stop shooting if the CF card becomes full.
- If internal memory becomes full, interval between shots may lengthen slightly.
- If you are using the flash, shots are taken more slowly to allow time for the flash to recharge.

## Adjusting the Exposure Compensation

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** Turn the mode dial to  M or .

**2** Press the  /WB button as necessary to display the **[+/- (Exp.)]** menu.

The exposure compensation bar appears on the LCD monitor.



**3** Press  or  button as necessary to adjust the compensation.

- You can set the adjustment from -2 to +2, in 1/3-step increments.

- If the LCD monitor is on, you can check the results of the compensation by viewing the image on the LCD monitor.
- A shot can be taken immediately after. The menu will reappear after the shot, allowing you to adjust the setting.

## 4 Press the SET button.

## 5 Take the shot.

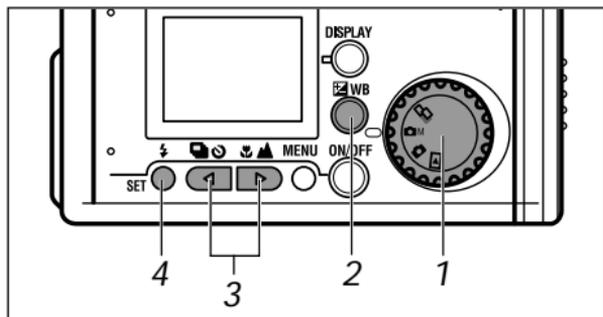
If you wish to turn compensation off, repeat this procedure and set the compensation value to [0].

- The camera retains the compensation setting even after power goes off.
- If using the camera in  (Stitch Assist) mode, you cannot change the compensation after taking the first shot.

## WB Setting the White Balance

Setting the white balance to match the dominant light source when shooting will adjust the coloring of the image (excluding  images) to the correct settings for the prevailing light conditions.

	Auto	The camera sets the white balance automatically.
	Daylight	Use when shooting outdoors in sunlight on a clear day.
	Cloudy	Use when shooting outdoors under cloudy skies, in shade, or at dusk.
	Tungsten	Use when shooting under tungsten lighting.
	Fluorescent	Use when shooting under fluorescent lighting.
	Black and White	Select this setting if you want to shoot in black and white.



**1** Turn the mode dial to M or .

**2** Press the /WB button as necessary to display the [White Balance] menu.

The LCD monitor displays the current setting, and a menu of all available settings.

**3** Press or button as necessary to select the desired setting.

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

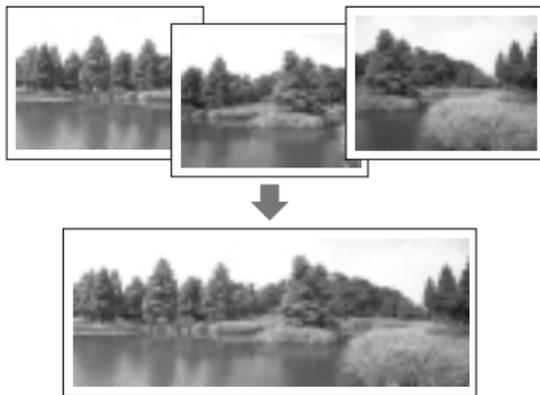
**4** Press the SET button.

**5** Take the shot.

If using the camera in  (Stitch Assist) mode, you cannot change the white balance setting after taking the first shot.

## 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 at your computer.



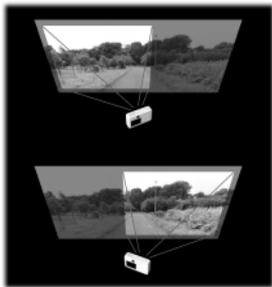
To create the panorama at your computer, use the PhotoStitch software that came with your camera.

## 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.



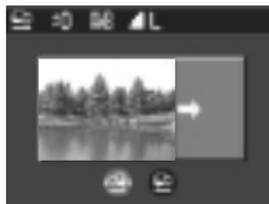
- Compose each frame so that it overlaps 30 to 50 % of the adjoining image. Try to keep the vertical misalignment to within 10 % of the image height.
- Do not include moving items in the overlap.
- Do not try to stitch images that include both distant and close items. Objects may appear warped or doubled up.
- Make the brightness in each image consistent. The final image will appear unnatural if the difference in brightness is too great.



- For good result, 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 Turn the mode dial to .
- 2 Press the  or  button to select the sequence direction, and then press the SET button.



-  : Left to right horizontally.
-  : Right to left horizontally.

- 3 Take the first shot.

## 4 Compose the next shot, taking care to overlap the previous image.

- Minor discrepancies in the overlapping portions can be corrected when the images are stitched together.
- If you are not satisfied with the previous shot, you can use  or  button to return to that shot and reshoot it.

## 5 Take additional shots for the panorama in the same way.

You can take as many as 26 images.

## 6 After taking the final image, press the SET button.

- You can adjust the following settings before taking the first shot: zoom, flash (On, Off, or Slow-synchro only), self-timer, macro or infinity mode, exposure compensation, white balance, resolution, and compression. These settings are locked in after the first image, and cannot be changed for subsequent shots.
- Auto and red-eye reduction flash modes and digital zoom are not available when shooting in Stitch Assist mode.
- *PowerShot A20 users* : It is not possible to display images on the TV monitor when shooting in Stitch Assist mode.

## 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, and retains these settings even if you switch to a different mode.

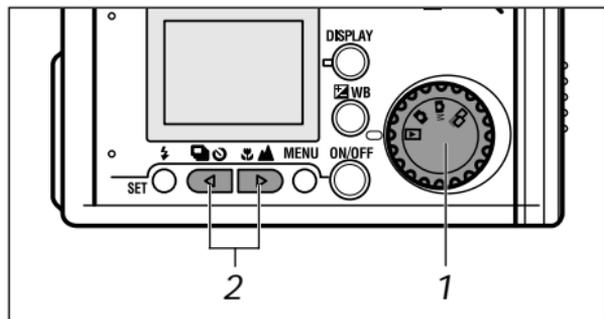
Function		Auto	Manual	Stitch Assist	See page...
Resolution	Large	○*	○*	△*	p. 37
	Medium	○	○	△	
	Small	○	○	△	
Compression	Superfine	○	○	△	p. 37
	Fine	○*	○*	△*	
	Normal	○	○	△	
Flash	Red-eye reduction, Auto	○*	○*	—	p. 39
	Auto	○	○	—	
	On	—	○	△	
	Off	○	○	△*	
	Slow-Synchro	—	○	△	
Macro Mode	○	○	○	p. 42	
Infinity Mode	—	○	○	p. 42	
Shooting Method	Single	○*	○*	○*	pp. 44, 45
	Continuous	—	○	—	
	Self-Timer	○	○	△	
Digital Zoom	○	○	—	p. 36	
Exposure Compensation	—	○	△	p. 46	
White Balance	—	○	△	p. 47	

\* : Default, ○ : Available, △ : Available, but cannot be changed after taking the first shot, — : Not available,  
 : Setting is retained even after power off.

# Replaying

## Displaying Images Singly (Single Image Replay)

Use this feature to view recorded images one at a time on the LCD monitor.



- 1 Turn the mode dial to .**  
The LCD monitor displays the last recorded image (single image replay).



- 2 Use  and  button to display different images.**

- Press  button to move to the previous image.
- Press  button to move to the next image.
- Hold down  or  button to cycle continuously.

## Magnifying an Image

- 1 Press the  button.**  
The image enlarges by approximately 2.5 times.



Approximate Location of the Magnified Area

- To slide the magnified image left or right on the monitor, press  and  button.
- To slide the image up or down, hold down the **SET** button and press  or  button.
- To return to normal-size display, press the  button.

- You can erase the displayed image by pressing the  / **WB** button (→ p. 11) (But note that erasure is disabled if the camera is connected to the optional Card Photo Printer CP-10.).
- PowerShot A20 users can also display images on a TV screen (→ p. 86).

## Displaying Images in Sets of Nine (Index Replay)

You can also view recorded images nine at a time, in an “index” display.

**1 Turn the mode dial to .**

**2 Press the  button.**

The LCD monitor displays an index of 9 images.

Selected image



### 3 Use or button to select an image.

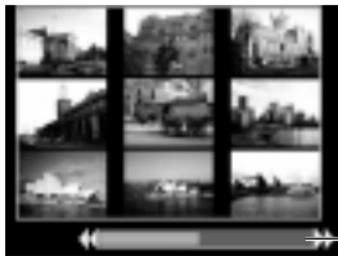
To view the selected image using Single Image Replay, press the  button.

You can erase the selected image by pressing the  / **WB** button (→ p. 11) (But note that erasure is disabled if the camera is connected to the optional Card Photo Printer CP-10.).

## Switching between Sets of Nine Images

This feature displays an index of 9 consecutive images you have taken.

### 1 Display images in index display mode, and then press the button again.



Indicates the location of the displayed images relative to all images stored in the card.

### 2 Press or button to change the displayed images.

- Press  button to display the preceding nine images.
- Press  button to display the next nine images.
- Press the  button once to return to normal Index Replay, or twice to return to Single Image Replay.

## Rotating Images in the Display

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



0° (Original)



90°



270°

**1** Turn the mode dial to , and display the image you want to rotate (→ p. 53).

**2** Press the MENU button to display the menu.

**3** Press  or  button to select , and then press the SET button.



**4** Press the SET button one or more times to rotate the image as desired.

**5** Press the MENU button to close the rotation function.

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.

Zooming rotated images reverses the rotation and displays the original orientation.

## Automating Playback (Auto Play)

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

- 1 Turn the mode dial to .
- 2 Press the **MENU** button to display the menu.
- 3 Press  or  button to select , and then press the **SET** button.



The camera reads the images on the CF card and starts auto play.

- As with the single image display mode, pressing the  or  button during auto play will advance through the images more rapidly.
- The display interval may vary for some images.

### • 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.

## Protecting Images

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

- 1 Turn the mode dial to .
- 2 Press the MENU button to display the menu.
- 3 Press  or  button to select , and then press the SET button.
- 4 Press  or  button to select an image you wish to protect, and then press the SET button to protect it.



Protected images are identified by the Protected Icon.



Protected Icon

- 5 Press the MENU button to close this feature.

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

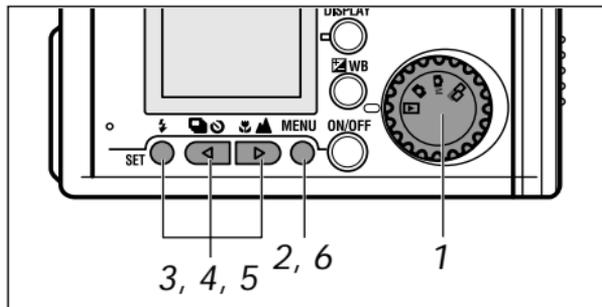
### To cancel protection...

Select the image you wish to unprotect, and then repeat Steps 2 and 3 as necessary.

# Erasing

## Erasing Images Singly

- Remember that erased images cannot be recovered. Be careful to avoid accidental erasures.
- This function will not erase protected images (→ p. 58).



**1** Turn the mode dial to .

**2** Press the MENU button to display the menu.

**3** Press  or  button to select , and then press the SET button.



**4** Press  or  button to select the image you wish to erase, and then press the SET button.

The LCD monitor asks for confirmation.



## 5 Press or button to select [OK], and then press the SET button.

- If you decide you don't want to erase the image, select [Cancel] instead of [OK].
- To delete additional images, repeat Steps 4 and 5 as necessary.

## 6 Press the MENU button to close the erase function.

A faster way to delete an image is to replay it and then press the  / WB button (→ p. 11). (But note that this quick-erase feature is disabled if the camera is connected to the optional Card Photo Printer CP-10.)

## Erasing All Images

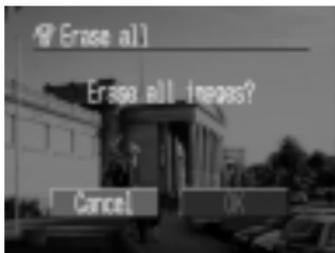
- Remember that erased images cannot be recovered. Be careful to avoid accidental erasures.
- This function will not erase protected images (→ p. 58).

## 1 Turn the mode dial to , and press the MENU button to display the menu.

## 2 Press or button to select , and then press the SET button.



The LCD monitor asks for confirmation.



**3** Press  or  button to select [OK], and then press the **SET** button.

- If you decide you don't want to erase all unprotected images, select [Cancel] instead of [OK].

# Print Settings (DPOF Settings)

Images on a CF card can be individually selected for printing in a specified number of copies. The print type and date or file number printing options can also be selected. These settings are compatible with Digital Print Order Format (DPOF) standards so that images can be printed conveniently on DPOF compliant digital printers or at participating photo labs.

- The  mark will display on images that have had print marks set by another DPOF-compliant camera. These settings will be overwritten by any settings set by your camera.
- The output of some printers or developing labs may not reflect the specified print settings.

After you set the DPOF settings, you can connect Card Photo Printer CP-10 (sold separately) and print images directly from the camera (→ p. 72). Please note that images with the print type set to [Index] cannot be printed on Card Photo Printer CP-10.

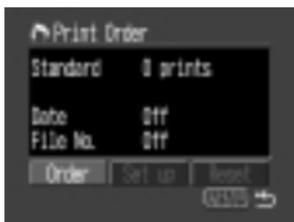
## Displaying the Print Order Menu

- 1 Turn the mode dial to .
- 2 Press the MENU button to display the menu.

- 3 Press  or  button to select , and then press the SET button.



The [Print Order] menu will display.



Make print settings in the following order.

- 1 Set the print style (→ p. 63).
- 2 Select images to be printed (→ p. 65).

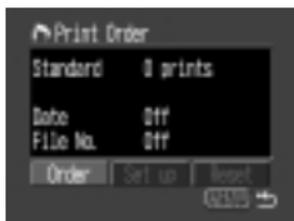
If you wish to clear all of the print settings, select [Reset] (→ p. 67).

## Setting the Print Style

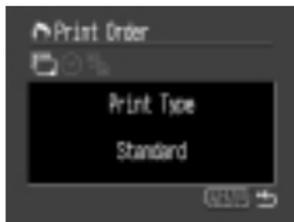
You can set up the print style as follows.

	 Standard	Print one image per sheet.
 Print Type	 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 (→ p. 62).



- 2 Press  or  button to select [Set up], and then press the SET button.

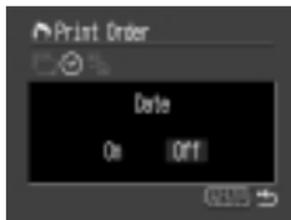


- 3 Press  or  button to select , , or , and then press the SET button.



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

- 4 Press  or  button to make the desired setting, and then press the SET button.



 (Date)  
Select [On] or [Off].



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

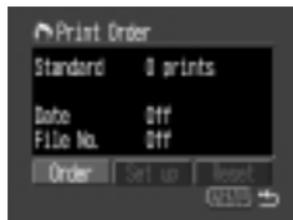
## 5 When you are finished making settings, press the MENU button.

The date and file number options cannot both be set to On when  (Index) is selected as the print type.

If you include the date, the date will be printed in the format you selected at the Set Date/Time menu (→ p. 24).

## Selecting Images for Printing

### 1 Display the [Print Order] menu (→ p. 62).



### 2 Press or button to select [Order], and then press the SET button.



The selection method will vary according to the print type (🖨️).

### Standard or Both

**3** Press ◀️ or ▶️ button to select an image, and then press the SET button.

The ◀️▶️ marks appear, indicating that you can now set the number of copies for that image.



You can use the zoom buttons to switch between single image display and 3-image index display.

**4** Press ◀️ or ▶️ button as necessary to set the number of copies, and then press the SET button.

The ◀️▶️ marks go off, and you can now proceed to select another image.

You can set the number of copies from 0 to 99.

- Repeat steps 3 and 4 as necessary to enter copy settings for any other images that you wish to print.

**5** When you are finished making settings, press the MENU button.

## Index

### 3 Press or button to select an image, and then press the SET button.

- Pressing the **SET** button once selects the image for printing. A check mark appears at the upper left, indicating that the image is selected.
- Pressing the **SET** button again deselects the image, so that the check mark disappears.



### 4 When you are finished, press the MENU button.

## 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 (→ p. 62).
- 2 Press  or  button to select [Reset], and then press the SET button.



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

If you decide you don't want to reset the settings, press [Cancel] instead of [OK].

# Printing with the Card Photo Printer CP-10

The optional Card Photo Printer CP-10\* connects directly to your camera, allowing you to generate beautiful prints quickly and easily. The camera produces both credit-card size and label size prints, and can create prints to meet many different needs. You can also make prints with the DPOF print settings.

\* The Digital Camera Photo Printer Kit CPK-A10 includes the Card Photo Printer CP-10 and the PowerShot A10.

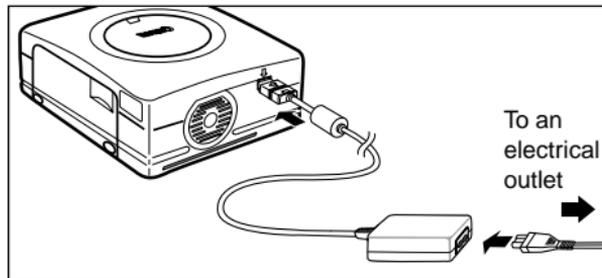
## Connecting the Card Photo Printer CP-10

Connect the printer to the camera using the Direct Interface Cable DIF-100, which is supplied with the printer. Be sure to turn the camera off before making the connection.

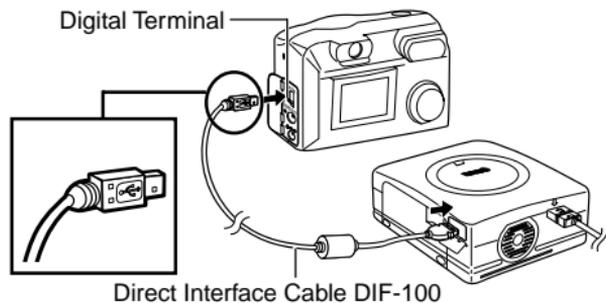
If you plan to print out many prints in a single session, it is recommended that you power the camera with AC power (→ p. 97) or else load fully charged NiMH batteries (→ p. 96) or new alkaline batteries before you begin.

**1** **Connect the power cord to the printer, and then plug the other end of the cable into an electrical outlet.**

- Unplug the power cord from the electrical outlet after using the printer.



## 2 Connect the direct interface cable to the printer and to the camera.



- Two direct interface cables are included with the Card Photo Printer CP-10. Use only the DIF-100 cable with  mark on the connector (The Digital Camera Photo Printer Kit CPK-A10 includes the Direct Interface Cable DIF-100 only.).
- When connecting the cable to the camera's Digital terminal, connect the cable end marked  to the Digital terminal. Ensure that the  mark faces the rear of the camera (monitor side).

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

## 3 The camera power is turned on and set the mode dial to



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



- For information about how to load paper and ink cassettes into the printer, refer to the printer's *User Guide*.

- The camera's erasure function "Quick Erase" and language-setting using the **SET** and **MENU** buttons (→ pp. 11, 27) are disabled while the camera is connected to the printer.
- When you disconnect the printer from the camera, the  icon disappears from the LCD monitor, and the camera returns to normal replay operation.

## Printing

- 1 Set the mode dial to .
- 2 Press  or  button to select the image you wish to print, and then press the **SET** button.

- 3 Press  or  button to select **[OK]**, and then press the **SET** button to start printing.

When printing is finished, the camera returns to the replay mode.

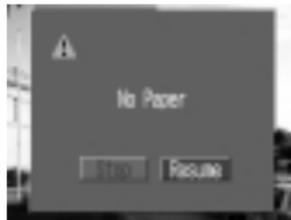


- You can use the [Style] feature to select the print style (→ p. 75).
- You can cancel printing by selecting [Cancel].

Printing cannot be stopped in mid process.

## If an error occurs during printing...

If an error occurs while printing is in progress, the camera's LCD monitor displays the relevant message.



The message on the left appears if the printer runs out of paper during printing.

- 1 Press  or  button to select [Stop] or [Resume], and then press the SET button.**

Printing stops or restarts accordingly.

The [Resume] option may not appear with certain types of error. In that case, select [Stop].

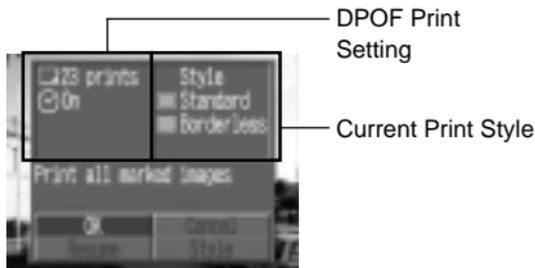
## Printing with DPOF Print Settings

The Card Photo Printer CP-10 can print images marked with DPOF print settings, excluding those with the print type set to [Index].

- 1 Display the Print Order menu ( $\rightarrow$  p. 62).**
- 2 Press  or  button to select [Print], and then press the SET button.**



**3** Press or button to select [OK], and then press the **SET** button.



Printing begins when you select [OK]. When printing completes successfully, the LCD monitor returns to the replay mode.

- Select [Style] if you wish to change the print style (→ p. 75).
- Select [Cancel] if you wish to stop printing.

## Stop Printing

**1** Press the **SET** button while printing is in progress.

The LCD monitor displays a confirmation message.



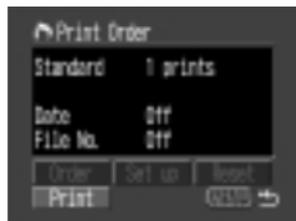
**2** Press or button to select [OK], and then press the **SET** button.

The printer completes printing of the current sheet, and then stops. The LCD monitor returns to the replay mode.

## Resuming Printing

If you have stopped printing while it was in progress, you can use the following procedure to resume printing of the remaining images.

- 1 **Display the Print Order menu**  
(→ p. 62).
- 2 **Press  or  button to select [Print], and then press the SET button.**



- 3 **Press  or  button to select [Resume], and press the SET button.**



Printing resumes from where it left off. When printing completes successfully, the LCD monitor returns to the replay mode.

Please note that this resume feature is not available in the following cases:

- When print settings are changed before printing is resumed.
- When images marked for printing are deleted before printing is resumed.
- When there is limited free capacity on the CF card when printing is stopped.

Printing resumes from the first image if [OK] is selected in the Print menu.

If the camera stopped printing because batteries ran low, you can resume printing after replacing the batteries or plugging the camera into a household power outlet (If you are using NiMH batteries, you can recharge them in the optional battery charger kit (→ p. 96).).

For information about what to do if an error occurs during printing: → p. 71.

## Setting the Print Style

You can select the style settings for your prints.

 Image	 Standard	Prints the image full-size on the sheet.
	 Multiple	Prints 8 copies of one image on the sheet.
 Borders	 Borderless	Prints the entire sheet.
	 Bordered	Prints the image with borders.
 Date		Prints the date with the image.

- If you select [Multiple], the borders setting is automatically set to [Borderless] and the Date setting is automatically set to [No].
- Select [Multiple] prints when printing on labels.

- 1 While displaying the image, press the SET button.



- 2 Press  or  button to select [Style], and press the SET button.



- 3 Press  or  button to select , , or , and press the SET button.

- 4 Press  or  button to select the desired setting, and press the SET button.



-  (Image)  
Select [Standard] or [Multiple].



-  (Borders)  
Select [Borderless] or [Bordered].



 **(Date)**  
Select [On] or [Off].

## 5 When you are finished making settings, press the MENU button.

- If you set the  setting to [Multiple], the border and date settings are automatically forced to [Borderless] and [Off].
- If you are printing according to DPOF settings, you cannot change the date on/off setting. The date is printed according to the DPOF settings (→ p. 72).
- With bordered prints, the printed area approximately matches the image area shown on the LCD monitor.
- Borderless and multiple printing will result in the image being slightly cropped on all four sides because the aspect ratio of the image and paper is different.

# Camera Settings

## Displaying the Rec. Menu

You use the Rec. menu to adjust basic shooting and operational settings. Most of these menu settings are described below. A few of these menu settings, however, are covered in other sections of this guide, as follows.

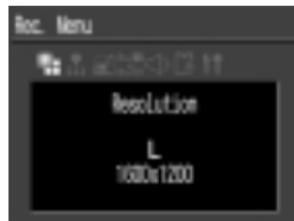
- Resolution (📷), Compression (📷): → p. 37
- Date/Time (📷): → p. 24
- Language (📷): → p. 26

**1 Turn the mode dial to 📷, 📷M, or 📷.**

The [Rec. Menu] can not be shown in 📷 mode.

**2 Press the MENU button.**

The [Rec. Menu] will display.



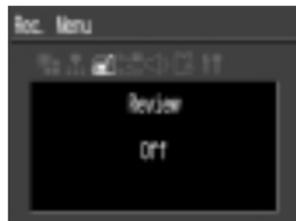
Display on the PowerShot A20

When you are finished making settings, press the **MENU** button.

## Changing the Image Review Time

When you take a shot, the camera holds the image on the LCD monitor for a specific time after you release the shutter button. The default holding time (“review time”) is approximately 2 seconds. If you like, however, you can change the review time to 10 seconds or switch the review feature off.

- 1 Display the [Rec. Menu] (→ p. 78).
- 2 Press  or  button to select , and then press the SET button.



- 3 Press  or  button to select the desired setting, and press the SET button.



- No image will display when the review function is set to Off unless you continue to press the shutter button fully after shooting.
- With the 2- or 10-second options, the image will display for the specified time even if the shutter button is released right after shooting.
- With the 2- or 10-second options, you can display the image for longer than the specified time as long as the shutter button is held down continuously.
- You can shoot another image even while an image is displayed.

## Resetting the File Number

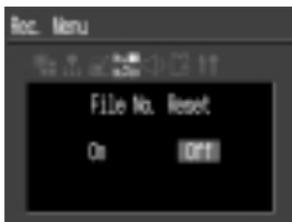
You can use this feature to select whether the camera resets the file number each time you insert a new CF card.

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** Display the [Rec. Menu]  
(→ p. 78).

2 Press  or  button to select , and then press the SET button.

3 Press  or  button to select [On] or [Off], and press the SET button.



The [Off] setting helps ensure that file numbers remain unique over multiple CF cards. This is useful if you are planning to download images from the cards to your computer, since it helps avoid accidental overwrites that may occur if filenames are duplicated.

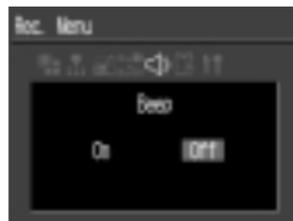
#### About file numbering...

Image files are assigned numerical filenames over the range 0001 to 9900. The camera stores these files into folders, which are assigned folder numbers from 100 to 998 (except that numbers ending in 99 are not used). In most cases the camera stores exactly 100 files into each folder. Because the camera cannot switch to a new folder when taking shots in  or  mode, however, some folders may have more than 100 images.

## Setting the Beep On/Off

A beep sounds for confirmation purposes when the shutter button is pressed or a camera setting is changed. The beep can be turned off.

- 1 Display the [Rec. Menu] (→ p. 78).**
- 2 Press  or  button to select , and then press the SET button.**
- 3 Press  or  button to select [On] or [Off], and press the SET button.**



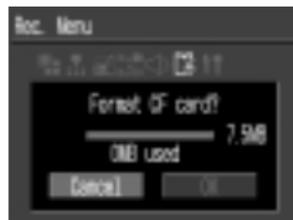
This setting has no effect on beep sounds that are issued as warnings. The camera will continue to emit these warning sounds as necessary regardless of this setting.

## Formatting a CF Card

You should format new CF cards before using them.

Formatting a CF card will permanently erase all data already on the card, including all of its protected images. Before formatting a card that has already been used, be sure to check its contents.

- 1 Display the [Rec. Menu] (→ p. 78).
- 2 Press  or  button to select , and then press the SET button.
- 3 Press  or  button to select [OK], and press the SET button.



If you decide that you do not want to format the card at this time, select [Cancel] instead.

- 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 that were formatted by another camera or by a computer may not operate correctly until you format them in the camera as described above.

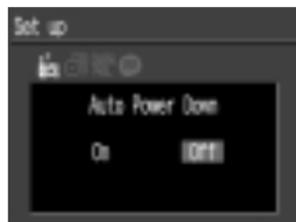
## Changing Other Settings

### Auto Power Down

By default, the Auto Power Down function automatically turns the camera off if you do not operate it for a certain period of time. But you are free to disable Auto Power Down if you do not want the camera to turn off automatically.

On	Camera power goes off after approximately 3 minutes (in Shooting modes) or after approximately 5 minutes (in Replay mode). You can turn the power back on by pressing the main switch.
Off	The camera does not turn off automatically. If the camera is in one of the shooting modes and the LCD monitor is on, however, the monitor will automatically turn off after approximately 3 minutes. You can switch the monitor back on again by pressing any of the camera's buttons (except for the main switch).

- 1 Display the [Rec. Menu] (→ p. 78).
- 2 Press  or  button to select , and then press the SET button.
- 3 Press  or  button to select , and press the SET button.
- 4 Press  or  button to set this feature to [On] or [Off], and press the SET button.



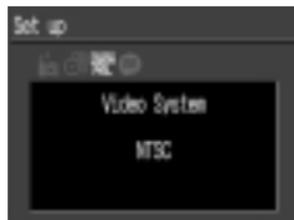
- Auto Power Down does not operate while you are displaying images with the camera's auto play feature.
- Auto Power Down operates at all times while connecting the camera to a computer.

## Video Signal Format

To use a TV monitor to shoot or replay images, the video signal format can be switched to suit regional standards.

- 1 Display the [Rec. Menu] (→ p. 78).
- 2 Press  or  button to select , and then press the SET button.
- 3 Press  or  button to select , and press the SET button.

- 4 Press  or  button to set this feature to [NTSC] or [PAL], and press the SET button.



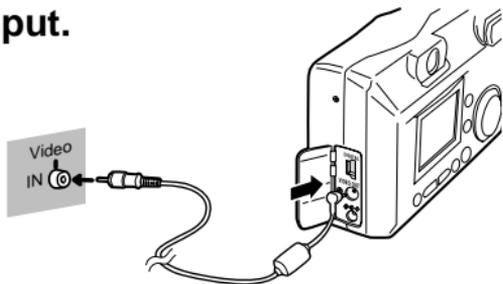
This setting is available only on the PowerShot A20. The PowerShot A10 does not support direct connection to a TV screen.

You can close the [Set up] menu and return to the replay mode by pressing the **MENU** button.

# Connecting the Camera to a TV Set

The PowerShot A20 can connect directly to a TV set, allowing you to use the TV screen as your monitor when shooting or replaying images. You make the connection using the video cable VC-100 included with the camera. Please be sure to turn both the TV set and the camera off before connecting or disconnecting the cable.

- 1 Connect the camera to the TV set using the supplied video cable. Then turn the TV set on, and set it to display video input.**



- 2 Turn on the camera.**

- The image display that normally appears on the LCD monitor now appears on the TV monitor instead.
  - If the image disappears from the TV screen while the camera is in one of the shooting modes, you can bring the image back by pressing the **DISPLAY** button.
- The LCD monitor does not display images while the TV is connected.
  - Stitch Assist mode (→ p. 49) is not available while the camera is connected to a TV.

The video output signal can be switched (NTSC or PAL) to accommodate different regional standards (→ p. 85). The default setting will vary between regions.  
NTSC: Japan, U.S. A., Canada, Taiwan, etc. PAL: Europe, Asia (excluding Taiwan), Oceania, etc.

# Downloading Images to a Computer

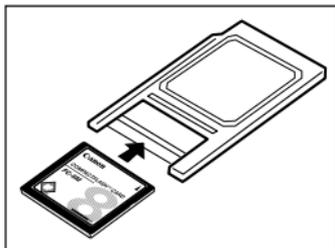
## Downloading Directly from a CF Card

Images can be loaded from a CF card to a computer if you are using a notebook computer, a PC card reader or a CF card reader. PC card adapter (PCMCIA adapter), sold separately, is required to use a PC card reader.

### Inserting the CF Card

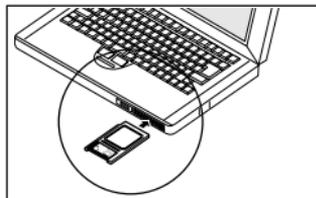
#### PC Card Reader

- 1 Eject the CF card from the camera, and insert it into the PC card adapter.**



- 2 Insert the PC card adapter into the computer's PC card slot or PC card reader.**

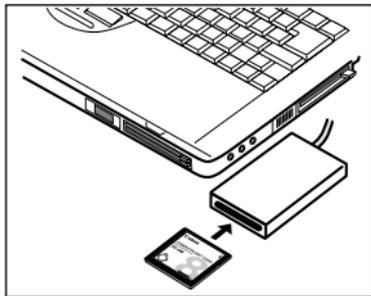
- Some computers or PC card readers require the power to be off when the PC card adapter is inserted into the PC card slot. Since this requirement varies between models, please consult the manual for your equipment.



## CF Card Reader

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

- Some computers or CF card readers require the power to be off when the CF card is inserted. Since this requirement varies between models, please consult the manual for your requirement.



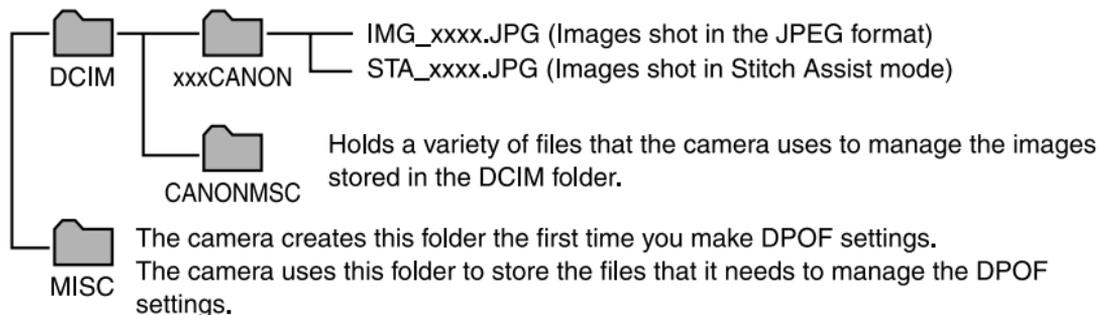
## Downloading Images

**1** Double-click the icon of the drive with the CF card.

**2** Copy images from the card into a folder of your choice on the hard disk.

- The images are stored in the [xxxCANON] folders located under the [DCIM] folder (where xxx is a three-digit number from 100 to 998).

## Image Folder Organization and File Names



- Each x above stands for a single numeral.
- With the exception of [xxxCANON] folder, all of the folders indicated above store important files used by the camera to manage the image data on the card. Do not open, edit, or delete these folders.

## Connecting the Camera to a Computer with a USB Cable

### Supported Operating Systems

Windows	Windows 98 (Including the Second Edition), Windows Millennium Edition (Windows Me), Windows 2000 * Only systems pre-installed with Windows 98/Me/2000 or upgraded to Windows Me from pre-installed Windows 98 systems are supported.
Macintosh computers	Mac OS 8.1 or later, QuickTime 3.0 or later (not supported on Mac OS X) * Only genuine Apple Computer systems with built-in USB interfaces are supported.

Before connecting the camera to your computer for the first time, you must install the required software onto the computer. Once the software has been installed, you can connect the camera to the computer using the included USB interface cable IFC-300PCU.

- For information about how to install the software, refer to the *Software Starter Guide*.
- If you are using Windows 95 or Windows NT, please use a CF card reader or a PC card reader to download images.

We recommend that you use the optional AC adapter (AC Adapter Kit ACK600) to power the camera while it is connected to your computer (→ p. 97).

## Connection Precautions

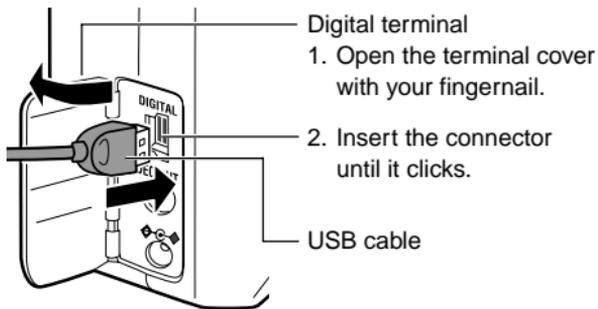
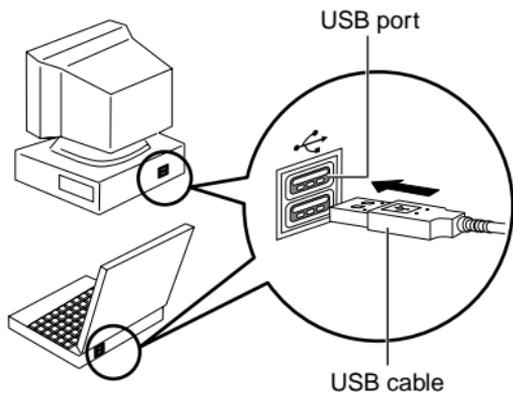
- With Windows system, the USB ports may not operate correctly on systems that have been upgraded to Windows 98/Me/2000 from Windows 3.1/95 or to Windows 2000 from a pre-installed Windows 98 system.
- With Macintosh computers, the USB interface only works with Power Macintosh NEW G3/G4, PowerBook G3, iMac and iBook models with built-in USB connectors.
- Connect the camera directly to a USB port on the computer. The interface may not operate correctly when connected through a USB hub.
- Operating the camera simultaneously with other USB devices, excluding USB mice and keyboard, may not work correctly. If this occurs, disconnect the other devices and then reconnect the camera.
- Do not have more than two cameras connected to a computer with the USB interface at any time. The cameras may not operate correctly.

Do not put the computer into standby (sleep) mode when a camera is connected via a USB port. If the computer should go into standby mode while a camera is connected to a USB port, leave the camera connected (never disconnect it) and try to take the computer out of standby mode. Some computers may not recover properly from the standby mode if the cable is disconnected. Please refer to the computer's manual for information regarding the standby mode.

## Connecting to a USB Port

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

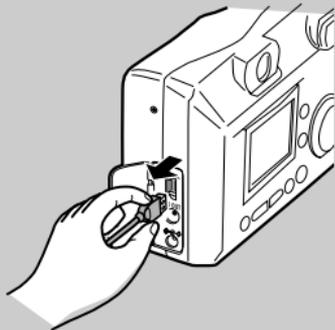
- You do not need to turn off the computer or camera when making this connection.
- Please refer to your computer manual for information regarding the location of the USB port.



## 2 Turn the camera's mode dial to .

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.

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



- If you disconnect the USB cable while the camera is on, the camera will automatically turn off.
- If you leave the camera unused for approximately 5 minutes while it is connected to the computer, the computer screen displays a warning message. If you do not take any action within the next minute, the camera turns off. You can turn the camera back on by pressing the main switch.

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

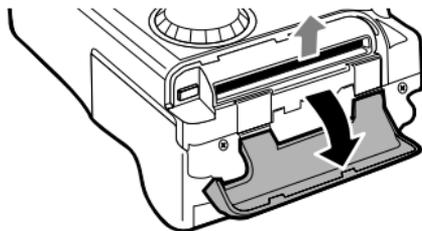
## Replacing the Date Battery

The camera uses a special Date battery to power its internal clock. 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.

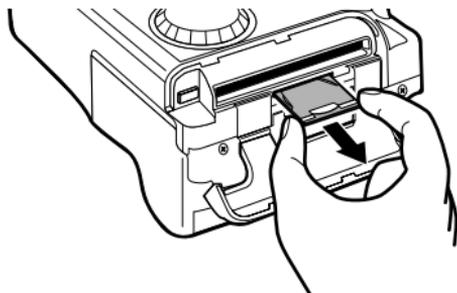
The date battery is preinstalled at the factory and may therefore expire earlier than its rated lifespan after the camera has been purchased.

- 1 Be sure that the camera is turned off.**

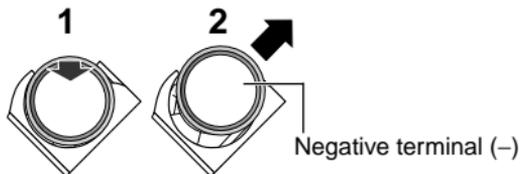
- 2 Slide the CF card slot cover in the direction of the gray arrow, and open it.**



- 3 Pull out the date battery holder.**



- 4** Pull the battery out of the holder, as shown.



- 5** Insert the new date battery into the holder, with the negative terminal (-) facing up.
- 6** Replace the date battery holder back into its original position, and close the CF card slot cover.

- 7** When the LCD monitor will display the Set Date/Time menu, proceed to set the current date and time (→ p. 24).

The LCD monitor also displays the Set Date/Time menu the very first time you turn on the camera. This is normal, and does not mean that the date battery is depleted.

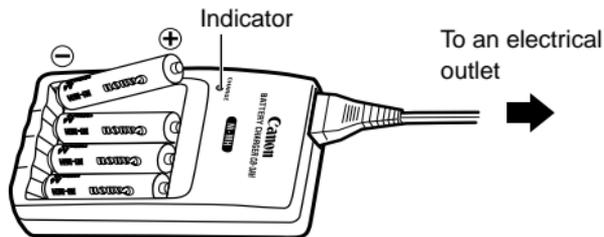
If you should dispose of your camera, first remove the button battery for recycling according to the recycling system of your country.



## Using the Optional Battery Kits

### Using Rechargeable Batteries (Battery and Charger Kit CBK100)

The optional battery charger kit comes with four rechargeable AA-size NiMH (nickel metal hydride) batteries for use with the PowerShot A10 and A20 cameras. You can recharge the batteries as shown below.



The indicator flashes while charging, then comes on solid when charging is finished.

### Using the Battery and Charger Kit CBK100

- This charger can be used only to charge Canon NB-1AH 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 all four of them at the same time.
- All batteries you place in the charger should be at approximately the same charge state, and should have been purchased at the same time. Don't 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.
- 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.
- When the usage time of batteries shortens markedly even though they are charged until the indicator glows, their effective life has reached an end. When this occurs, purchase four new batteries. Be sure to purchase Canon AA-size NiMH batteries NB4-100 (a four-piece set).
- Leaving batteries in the camera or charger may damage it causing the battery leakage. Remove batteries from the camera or charger and store in a dry cool location when not in use.

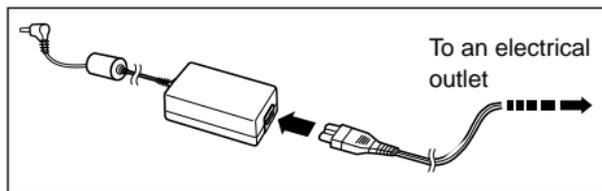
- It takes approximately 220 minutes for the charger to fully recharge the batteries (as determined by testing at Canon facilities). Please do not charge batteries in areas where the temperature is outside the range of 0 to 35 °C (32 to 104 °F).
- Charging time varies according to ambient temperature and to the batteries' initial charge state.

## Using the Household Power Source (AC Adapter Kit ACK600)

This optional adapter kit allows you to operate the camera continuously without worrying about having to stop and replace the batteries. Use of the kit is recommended when you are planning long sessions with the camera, and whenever you connect the camera to a computer.

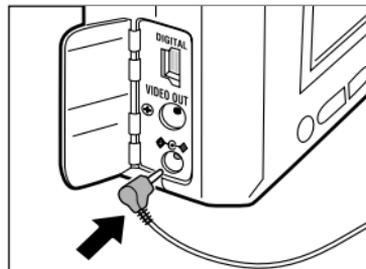
Be sure that the camera is turned off before connecting or disconnecting the compact power adapter.

**1** Connect the power cord to the compact power adapter, and then plug the other end into the electrical 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 ACK600 with your camera. Use of a different adapter may result in damage to the camera or to the adapter.

## Using Optional Lenses and Lens Adapters

The camera supports use of the optional Wide Converter WC-DC52 and the optional Close-up Lens 250D (52 mm). In order to attach either of these options, you also need to use the optional Conversion Lens Adapter LA-DC52.



- When attaching the wide converter or close-up lens, be sure to screw it on securely. If the wide converter or close-up lens comes loose it may fall from the camera, posing risk of injury from shattered glass.
- Never look into the sun or into strong light through the wide converter or the close-up lens, as this can result in blindness or impairment of vision.

### Wide Converter WC-DC52

Use this converter for taking wide-angle shots. The wide converter changes the focal length of the camera body's lens by a factor of 0.7 (The thread diameter is 52 mm.).



- It is not possible to attach a lens hood or filter to the wide converter.
- If you use the flash when shooting with the wide converter, the outer area of the recorded image (and especially the lower right corner) will come out relatively dark.
- The wide converter blocks part of the view through the viewfinder.
- When using the wide converter, please set the camera to maximum wide angle.

## Close-Up Lens 250D (52 mm)

This lens makes it easy to take macro shots. With the camera set to Macro mode, you can use this option to shoot subjects that are 10 to 25 cm (3.9 to 9.8 in.) at maximum wide angle and 13 to 25 cm (5.1 to 9.8 in.) at maximum telephoto from the lens tip.



Please do not use the flash when shooting with this lens.

## Shooting Ranges in Macro Mode

	Distance between Lens tip and Subject	Shooting Range
At maximum telephoto	13 cm (5.1 in.)	48 × 36 mm (1.9 × 1.4 in.)
	25 cm (9.8 in.)	82 × 61 mm (3.2 × 2.4 in.)
At maximum wide angle	10 cm (3.9 in.)	106 × 80 mm (4.2 × 3.2 in.)
	25 cm (9.8 in.)	230 × 173 mm (9.1 × 6.8 in.)

## Conversion Lens Adapter LA-DC52 (52 mm)

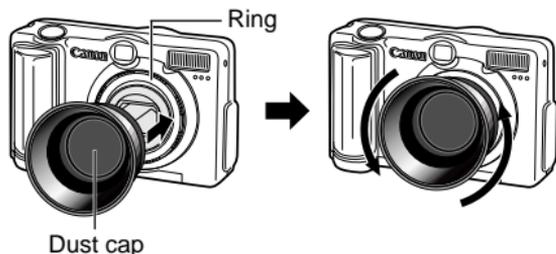
This optional adapter is required for attaching the optional wide converter and the optional close-up lens.



Dust cap

## Attaching a Lens

- 1 Be sure that the camera is turned off.
- 2 Attach the dust cap to the adapter as shown in the illustration on the opposite page.
- 3 Push the adapter against the ring around the lens and turn it in the indicated direction while pressing on it to remove the ring.



- 4 Remove the dust cap, and attach the adapter by turning it in the indicated direction.



- 5 Set the lens on the adapter, and attach it by turning it in the indicated direction.

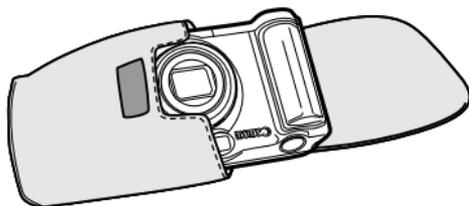


Attaching the wide converter

- Completely remove all dust and dirt from conversion lenses with a lens blower brush before use. The camera may focus on any dirt that remains.
- Exercise due caution when handling the lenses since it is easy to dirty them with finger prints.
- Be careful not to drop the camera or adapter when removing the ring.
- When shooting with these attachments, please use the LCD monitor to compose your shots. The attachments block part of the view through the viewfinder, and the area shown in the viewfinder does not match the area of the shot that is actually recorded.
- You should not shoot images in  mode when using these attachments. Although it is possible to select this mode at the camera, the PhotoStitch software will not be able to stitch the images together at the computer.

## Using the Soft Case (Optional)

Use this case to protect the camera from scratches and dust when it is not in use.



- Optional soft case appearance and specifications may vary according to region.

## Camera Care and Maintenance

When the camera becomes dirty, clean it as follows.

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Camera Body: Wipe the camera body with a soft cloth or eyeglass lens wiper.

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Lens: Clean the lens with a lens blower brush, then wipe lightly with a soft cloth.

- Never wipe the camera body or lens with organic solvents or other synthetic cleaning solutions. If you are unable to remove the dirt from the lens, contact Canon Customer Support Help Desk.

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Viewfinder: Clean with a lens blower brush. If necessary, wipe lightly with a soft cloth or eyeglass lens wiper.

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LCD Monitor: Clean with a lens blower brush. If necessary, wipe lightly with a soft cloth or eyeglass lens wiper.

- Don't press strongly on the monitor or rub it forcefully. Strong pressure or rubbing may cause scratches on the surface.

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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 (no power).	The camera is turned off.	Press the main switch for a few moments.
	The battery cover or CF card slot cover is open.	Be sure these covers are closed securely.
	Batteries are loaded in the wrong direction.	Reload the batteries in the correct direction.
	Batteries are depleted.	<ul style="list-style-type: none"> <li>• Replace with new alkaline or fully recharged batteries (four AA-size batteries).</li> <li>• Use a household power source.</li> </ul>
	Batteries are not the right type.	Use only new AA-size alkaline batteries that are equivalent to those that came with the camera or Canon AA-size NiMH batteries.
	Batteries are not making good electrical contact with the camera.	Wipe the battery terminals with a clean dry cloth.
The camera doesn't shoot.	The mode dial is set to  (Replay).	Turn the mode dial to  (Auto),  M (Manual), or  (Stitch Assist).

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
The camera doesn't shoot.	The flash is charging.	Wait until the flash charges. You can press the shutter button when the indicator glows a steady orange.
	The CF card is full.	<ul style="list-style-type: none"> <li>• Insert a new CF card.</li> <li>• Download images to your computer, then erase them from the card to free up more space.</li> </ul>
	The CF card is not formatted correctly.	<ul style="list-style-type: none"> <li>• Format the card (→ p. 83).</li> <li>• The card may be defective (its physical format may be corrupted). Contact Canon Customer Help Desk.</li> </ul>
The power is off but the lens did not retract.	You opened the battery cover or CF card slot cover while the camera was on.	Close the covers, and then use the main switch to turn the power off correctly.
	You opened the battery cover or CF card slot cover while recording to the CF card (warning beep sounds).	Close the covers, and then use the main switch to turn the power off correctly.

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
The batteries are consumed quickly.	Batteries are not the right type.	Use only AA-size alkaline batteries (the same type that came with the camera) or Canon AA-size NiMH (nickel metal hydride) batteries.
	The batteries are cold.	Battery performance deteriorates at low temperatures. If shooting in a cold area, keep the batteries warm (by placing them in inner pocket, etc.) until ready to use them.
	The batteries have not been used for over a year.	If batteries are rechargeable: Performance should return to normal after several charging cycles.
	If rechargeable batteries: The batteries life has been exceeded.	Discard all 4 batteries and replace with new ones.
<i>If using rechargeable batteries:</i> Batteries do not charge.	Batteries were placed in the charger in the wrong direction.	Put batteries back into the charger in the correct direction.

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
<p><i>If using rechargeable batteries:</i> Batteries do not charge.</p>	Poor electrical contact.	<ul style="list-style-type: none"> <li>• Be sure to set batteries firmly into the charger.</li> <li>• Be sure that the power cable is firmly connected to the charger, and is firmly plugged in to the electrical outlet.</li> </ul>
	Batteries life exceeded.	Replace all 4 batteries with new ones.
<p>Shots are blurry or unfocused, or shooting results are not as expected.</p>	The camera was moving when you took the shot.	Hold the camera steady when shooting.
	The subject was outside the range over which the camera can focus.	<ul style="list-style-type: none"> <li>• Ensure that there is at least 76 cm (2.5 ft.) between the camera lens and subject.</li> <li>• Use the macro mode to shoot close-ups between 16 to 76 cm (6.3 in. to 2.5 ft.) from the lens when set to wide angle and between 26 to 76 cm (10.2 in. to 2.5 ft.) when set to telephoto.</li> <li>• When shooting distant subjects, set the camera to infinity mode.</li> </ul>

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
The subject comes out underexposed (too dark).	Insufficient light for shooting.	Set the flash on.
	The subject is darker than the surroundings.	Set exposure compensation to a positive value.
	The white balance setting is not appropriate.	Change the white balance setting as necessary.
	The subject is beyond the range of the flash.	When flash is used, the distance between lens and subject should not exceed 4.2 m (13.8 ft.) at maximum wide angle or 2.5 m (8.2 ft.) at maximum telephoto setting.
The subject comes out overexposed (too bright).	The subject is too close to the flash.	When flash is used, the distance between lens and subject should be no less than 26 cm (10.2 in.).
	The subject is brighter than the surroundings.	Set exposure compensation to a negative value.
	Light is shining or reflecting into the camera.	Adjust the camera angle.
	The flash mode is set so that the flash always fires.	Set the flash to any other mode except On.
The flash doesn't fire.	The flash mode is set to Off.	Set the flash to any other mode except Off.

## List of Messages

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

<b>Busy...</b>	The camera is writing image data to the CF card (after taking a shot), or reading image from the card (when getting ready to display it).
<b>No CF card</b>	You attempted to shoot or replay with no CF card installed.
<b>Cannot record!</b>	You attempted to shoot with no CF card installed.
<b>CF card error!</b>	There is something wrong with the CF card. Format it and then diagnose and repair it with a computer utility such as scandisk.exe.
<b>CF card full</b>	The CF card is too full to store images or accept new print settings.
<b>Naming error!</b>	The camera cannot generate a file name for the image you have shot because (a) the card already contains a folder having the same name as the file to be created, or (b) the file number has already reached 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.).
<b>Change the batteries</b>	The batteries are dead, and the camera can no longer function. Replace with new or fully recharged batteries (Be sure to replace all batteries at the same time.).
<b>No image</b>	No images recorded on CF card.

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<b>Image too large</b>	You attempted to replay an image whose file size was too large or whose resolution exceeded 3200 × 2400 pixels.
<b>Incompatible JPEG format</b>	You attempted to replay an incompatible JPEG file.
<b>Corrupted data</b>	You attempted to replay an image with corrupted data.
<b>RAW</b>	You attempted to replay a RAW image.
<b>Unidentified image</b>	You attempted to replay an image file recorded in a unrecognized format (file recorded by a different camera in a proprietary format, etc.).
<b>Cannot magnify!</b>	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.
<b>Cannot rotate!</b>	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.
<b>Protected!</b>	You attempted to erase a protected image.
<b>Too many marks!</b>	Too many images have been marked for printing. Cannot process any more.
<b>Exx</b>	Camera malfunction (where xx is the two-digit error code). Try turning the camera off and back on. If this message recurs frequently, note down the error and call a Canon Customer Support Help Desk. If this message appears immediately after you have taken a shot, it is possible that the camera failed to record the image—so you may want to switch into Replay mode to check whether the image was actually recorded.

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The following table lists and explains the messages that may be on the LCD monitor when printing to the Card Photo Printer CP-10 (optional).

<b>No Paper</b>	Paper cassette is empty or is not installed correctly.
<b>No Ink</b>	No ink cassette in the printer, or the ink cassette is out of ink.
<b>Ink Cassette Error</b>	There is a problem with the ink cassette.
<b>Paper Jam</b>	Paper jammed during printing.
<b>Communication Error</b>	A communication error has occurred.
<b>Cannot Print!</b>	You attempted to print an image shot by a different camera, or in an incompatible format, or downloaded to and edited on a computer.
<b>Could not print xx images</b>	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.

## Specifications

	PowerShot A10	PowerShot A20
Image Sensor	Approx. 1.32 million-pixel (total). 1/2.7 in. CCD (effective pixels: approx. 1.25 million)	Approx. 2.11 million-pixel (total). 1/2.7 in. CCD (effective pixels: approx. 2.02 million)
Lens	5.4 (W) – 16.2 (T) mm (35 mm film equivalent: 35 – 105 mm), F 2.8 (W) – 4.8 (T)	
Digital Zoom	Maximum 2.0× (Maximum 6× with optical zoom)	Maximum 2.5× (Maximum 7.5× with optical zoom)
Optical Viewfinder	Primary imaging real-image optical zoom viewfinder	
LCD Monitor	1.5-inch low-temperature polycrystalline silicon TFT color LCD, approx. 120,000 pixels	
Autofocus	TTL 3 point AiAF	
Focusing Range	Normal: 76 cm (2.5 ft.) – ∞ Macro: 16 – 76 cm (6.3 in. – 2.5 ft.) (W) / 26 – 76 cm (10.2 in. – 2.5 ft.) (T)	
Shutter	Mechanical + electronic	
Shutter Speed	1 – 1/1500 sec. • 1 sec. in manual mode with the flash off or in slow synchro mode. • Noise reduction processing on speeds slower than 1/6 sec.	
Light Metering Method	Evaluative metering (linked to focusing point)	
Exposure Control	Program AE	
Exposure Compensation	±2 EV (1/3 steps)	
Sensitivity	ISO 100 equivalent (automatically raised to ISO 150 in low light)	
White Balance	TTL auto/preset (daylight, cloudy, tungsten, fluorescent)	
Flash	Red-eye reduction auto/auto/on/off/slow-synchro	
Flash Range	Normal Mode: 76 cm – 4.2 m (2.5 – 13.8 ft.) (W), 76 cm – 2.5 m (2.5 – 8.2 ft.) (T) Macro Mode: 26 – 76 cm (10.2 in. – 2.5 ft.) (W/T)	

(W): wide angle (T): telephoto

## PowerShot A10

## PowerShot A20

Shooting Modes	Auto/manual/stitch assist	
Continuous Shooting	Approx. 2.5 images/sec (Large/Fine mode, LCD monitor off)	
Self-Timer	Shoots after 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	JPEG	
Compression	Superfine/fine/normal	
Number of Recording Pixels	Large: 1280 × 960 pixels Medium: 1024 × 768 pixels Small: 640 × 480 pixels	Large: 1600 × 1200 pixels Medium: 1024 × 768 pixels Small: 640 × 480 pixels
Replay Modes	Single image replay/index replay (9 thumbnails)/zoomed view (LCD monitor zooms images up to 2.5×)/ auto play/printing with Card Photo Printer CP-10 (print image directly)	
Interface	USB (mini-B)	USB (mini-B) Video output terminal (NTSC or PAL, selectable)
Power Source	Four AA alkaline batteries Four AA rechargeable NiMH batteries Compact Power Adapter CA-PS500	
Operating Temperatures	0 – 40 °C (32 – 104 °F)	
Operating Humidity	10 – 90 %	
Dimensions (w x h x d)	110.3 × 71.0 × 37.6 mm (4.3 × 2.8 × 1.5 in.) (excluding protrusions)	
Weight	Approx. 250 g (8.8 oz.) (excluding batteries and CF card)	

### NiMH Battery NB-1AH (optional)

Type	Rechargeable nickel hydride battery
Nominal Voltage	1.2 V DC
Typical Capacity	1600 mAh
Charging Time	Approx. 220 minutes*
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.)

\* To charge four batteries

### Battery Charger CB-3AH (optional)

Rated Input	100 – 240 V AC (50/60 Hz), 8 W
Rated Output	1.6 V DC/2 A
Operating Temperature	0 – 35 °C (32 – 95 °F)
Dimensions	113 × 74 × 27.5 mm (4.4 × 2.9 × 1.1 in.)
Weight (body)	Approx. 100 g (3.5 oz.)

### Compact Power Adapter CA-PS500 (optional)

Rated Input	100 – 240 V AC (50/60 Hz), 0.17 A
Rated Output	4.3 V DC/1.5 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 I
Dimensions	36.4 × 42.8 × 3.3 mm (1.4 × 1.7 × 0.1 in.)
Weight	Approx. 10 g (0.4 oz.)

## Wide Converter WC-DC52 (optional)

Magnification	Approx. 0.7×
Focusing Range (from tip of lens)	60 mm (2.4 in.) – ∞ (when mounted on PowerShot A10 or A20, at maximum wide angle)
Thread Diameter	52 mm standard filter thread (Conversion Lens Adapter LA-DC52 is required for mounting to PowerShot A10 or A20)
Dimensions	Diameter: 58 mm (2.3 in.) Length: 30.5 mm (1.2 in.)
Weight	Approx. 74 g (2.6 oz.)

## Close-Up Lens 250D 52mm (optional)

Focal Length	250 mm
Focusing Range (from tip of lens)	100 – 250 mm (3.9 – 9.8 in.) (W)/130 – 250 mm (5.1 – 9.8 in.) (T) (when mounted on PowerShot A10 or A20)
Thread Diameter	52 mm standard filter thread (Conversion Lens Adapter LA-DC52 is required for mounting to PowerShot A10 or A20)
Dimensions	Diameter: 54 mm (2.1 in.) Length: 10.2 mm (0.4 in.)
Weight	Approx. 55 g (1.9 oz.)

## Conversion Lens Adapter LA-DC52 (optional)

Thread Diameter	52 mm standard filter thread
Dimensions	Diameter: 55.7 mm (2.2 in.) Length: 23.7 mm (0.9 in.)
Weight (body)	Approx. 13 g (0.5 oz.)

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

## A

Auto Play .....	57
Auto Power Down .....	29
Autofocus .....	30

## B

Batteries	
Installing .....	17
Performance .....	20
Status Indications .....	20

## C

Camera Care and Maintenance ..	103
Camera Settings	
Auto Power Down .....	84
Beep On/Off .....	82
File-Number Reset .....	80
Formatting a CF Card .....	83
Image Review Time .....	79
Rec. Menu .....	78
Video Signal Format .....	85
CF Cards	
About CF Cards .....	22
Estimated Capacities .....	22

Installing .....	20
Close-up Lens .....	100
Compression .....	37
Computer, Downloading Images to	
Connecting Camera to	
Computer by USB .....	90
Directly from CF Card .....	87
Image Folder Organization	
and File Names .....	89
Using a CF Card Reader .....	88
Using a PC Card Adapter .....	87
Continuous Shooting .....	45
Conversion Lens Adapter ..	100

## D

Date Setting .....	24
Date-Battery Replacement ..	94
Digital Zoom .....	36

## E

Erasing	
All Images .....	60
Single Image .....	59
Exposure Compensation .....	46

## F

Flash	
Flash Modes .....	39
Red-Eye Reduction .....	41
Using .....	39
Focus Lock .....	43
Full Press .....	34
Functions and Settings Chart ..	52

## H

Halfway Press .....	34
---------------------	----

## I

Image Data Sizes .....	39
Index Replay .....	54
Indicators .....	15, 16
Infinity Shots .....	42

## L

Language .....	26
LCD Monitor	
Information Displayed on .....	32
Using .....	30

Lens Attachment ..... 101

## M

Macro Mode ..... 42

Magnifying a Displayed Image . 53

Mode Dial ..... 16

## P

### Power Kits

AC Adapter Kit ..... 97

Rechargeable Batteries ..... 96

### Printing

Card Photo Printer ..... 69

Connecting to Printer ..... 69

DPOF ..... 62

Errors during ..... 72

Index Prints ..... 67

Print Style ..... 63, 75

Printing with DPOF Settings ... 72

Printing Procedure ..... 71

[Print Order] Menu ..... 62

Resetting the Print Settings .... 67

Resuming ..... 74

Selecting Images for ..... 65

Standard Prints ..... 66

Stopping ..... 73

Protect ..... 58

## R

Rec. Menu ..... 78

Resolution ..... 37

Rotating Image ..... 56

## S

Self-Timer ..... 44

Shooting ..... 37

Shooting Modes ..... 37

Shutter Button ..... 34

Single Image Replay ..... 53

### Stitch Assist Mode

Framing a Subject ..... 49

Shooting ..... 50

## T

Telephoto ..... 36

Terminal Cover ..... 13

Time Setting ..... 24

Tripod Socket ..... 14

Turning Camera On ..... 28

TV Connection ..... 86

## V

Viewfinder ..... 29

## W

White Balance ..... 47

Wide Angle ..... 36

Wide Converter ..... 99

Wrist Strap ..... 23

## Z

Zoom ..... 36

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## **FCC Notice**

(Digital Camera, Model PC1007 and PC1009)

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.

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

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

**Canon**