

Canon



PowerShot S10
PowerShot S20
DIGITAL CAMERA

Camera User Guide



This guide is for both PowerShot S10 and PowerShot S20 digital cameras.
Please read the notice on the next page before using your camera for the first time.
Refer to this guide for camera operating instructions and the Software Starter Guide for computer and software related instructions.

This user guide is for both the PowerShot S10 and PowerShot S20 models. The model shown in this guide is the PowerShot S20. Unless otherwise noted, the menus and illustrations apply to both the PowerShot S10 and PowerShot S20 models.

Precautions

Camera Body Temperature

If your camera is used for prolonged periods, the camera body may become warm. This is not a malfunction and will not affect the camera's performance or the stored images. 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, with more than 99.99% of the pixels operating to specifications. Less than 0.01% of the pixels may occasionally misfire or appear as black, red or green dots. This has no effect on the recorded image and does not constitute a malfunction.

About 2CR5 Lithium Batteries

- Please note that using 2CR5 lithium batteries at low temperatures will severely limit their performance. Even new batteries may only provide power for a few shots. You can obtain more shots if you warm the battery in your pocket immediately prior to use. When operating the camera at close to 32°F (0°C), keep the LCD monitor off and compose images with the optical viewfinder.
- Even if the battery charge appears to be depleted while shooting at low temperature ("Lb" shows in the display panel), the battery may still retain a charge when used at room temperature.
- You are advised to use a power kit (sold separately in some regions), a charged battery pack or an AC adapter if you will be using the camera frequently at low temperatures, loading images onto a computer or performing other tasks that require extended operation.

Notice: Please ensure that you read and follow the handling and safety precautions on pages 5 to 10 of this guide before attempting to use the camera.

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FCC Notice

(Digital Camera, Model PS 1025 and PC 1002)

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.

Use of shielded cable is required to comply with Class B limits in Subpart B of Part 15 of the FCC Rules.

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

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

Canadian Radio Interference Regulations

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

Règlementation canadienne sur les interférences radio

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

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Read This First

Thank you for purchasing a Canon product. Please ensure that you read and understand these handling and safety precautions before you operate your camera and equipment.

Please Read

Test Shots

Before you shoot images of subjects of importance to you, we highly recommend that you shoot several trial images to confirm that you are operating the camera correctly. Please note that Canon Inc., its subsidiaries and affiliates, and distributors of its digital cameras are not liable for any consequential damages arising from any malfunction of a PowerShot 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 sensible.

Warning Against Copyright Infringement

Please note that PowerShot 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.

Use of the Equipment in a Foreign Country

This camera is manufactured according to the specifications of the country in which it is sold and the 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 and its power supply accessories.

WARNINGS

- Do not aim the camera directly into the sun or at other intense light sources that could injure 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 injure eyesight. In particular, remain at least 39 inches (one meter) 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 wrist strap around the child’s neck could result in asphyxiation.
- Be particularly careful to keep the button batteries (CR2016 lithium) used in the camera out of the reach of children. Seek medical assistance immediately if a child swallows a battery.

-
- Do not attempt to disassemble or alter any part of the equipment that is not expressly described in this guide. Disassembly or alteration may result in high-voltage electrical shock. Internal inspections, alterations and repairs should be conducted by qualified service personnel authorized by your camera distributor or a Canon Customer Support Help Desk.
-
- To avoid the risk of high-voltage electrical shock, do not touch the flash portion of the camera if it has been damaged. Similarly, never touch internal portions of the equipment that become exposed as a result of damage. There is a risk of high-voltage electrical shock. Please take the first opportunity to consult your camera distributor or a Canon Customer Support Help Desk.
-
- Stop operating the equipment immediately if it should emit smoke or noxious fumes. Failure to do so may result in fire or electrical shock. Immediately turn the camera's mode dial to the Off position and remove the camera battery or unplug the power cord from the electrical outlet. Confirm that smoke or fume emissions cease. 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 mode dial to the Off position and remove the camera battery or unplug the power cord from the electrical outlet. Please consult your camera distributor or the closest Canon Customer Support Help Desk.
-
- Prevent the equipment from contact with, or immersion in, water and 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 mode dial to 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.
-

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- 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. Replace a broken or damaged power adapter cord.
-
- 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 rigid 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.
-
- To connect an interface cable to a port other than a USB port, power down the computer and unplug the power cord before attempting to connect it to avoid the risk of electrical shock.
-
- Do not place the batteries near a heat source or expose them to direct flame or heat. Neither should you immerse them in water. Such exposure may damage the batteries and lead to the leakage of corrosive liquids, fire, electrical shock, explosion or serious injury.
-
- Do not attempt to disassemble, alter or apply heat to the batteries. There is serious risk of injury due to an explosion. Immediately flush with water any area of the body, including the eyes and mouth, or clothing, that comes into contact with the inner contents of a battery. If the eyes or mouth contact these substances, immediately flush with water and seek medical assistance.
-
- Avoid dropping or subjecting the batteries to severe impacts that could damage the casings. It could lead to leakage and injury.
-

- Do not short-circuit the battery terminals with metallic objects, such as key holders. It could lead to overheating, burns and other injuries. Use the supplied battery case to transport or store the battery pack.
- Before you discard a battery, cover the terminals with tape or other insulators to prevent direct contact with other objects. Contact with the metallic components of other materials in waste containers may lead to fire or explosions. Discard the batteries in specialized waste facilities if available in your area.
- Use 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.
- Use only the recommended compact power adapter to charge the Battery Pack NB-5H rechargeable batteries. Use of chargers not expressly recommended may result in overheating, distortion, fire or electrical shock.
- Disconnect 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 compact power cord is designed for exclusive use with the PowerShot S10 and PowerShot S20. Do not use it with other products or batteries. There is a risk of fire and other hazards.

CAUTION

- 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 these 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 wrist 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.
- 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

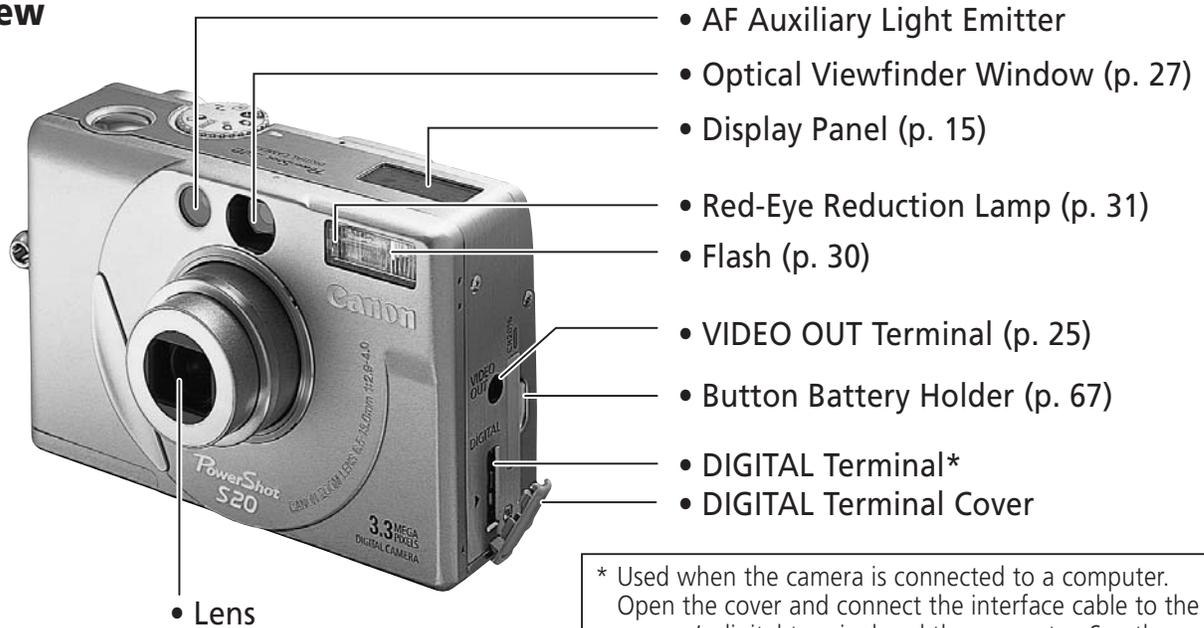
When not using the camera for extended periods of time, remove the battery (except the CR2016 lithium button battery) and store the equipment in a safe place. Storing the camera for extended periods with a battery installed will run down the battery and may damage the camera.

Preparing the Camera

This section explains how to install the batteries, CF card and wrist strap.

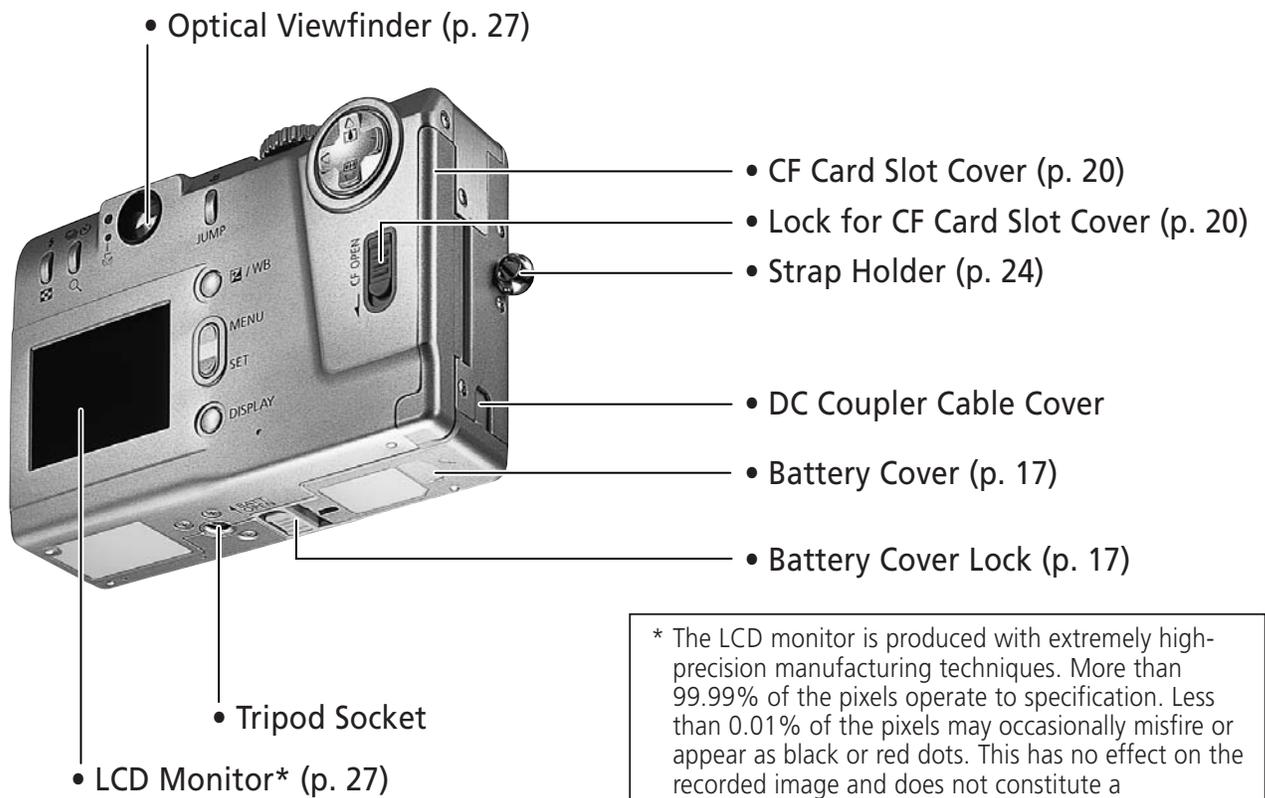
Guide to Components

Front View



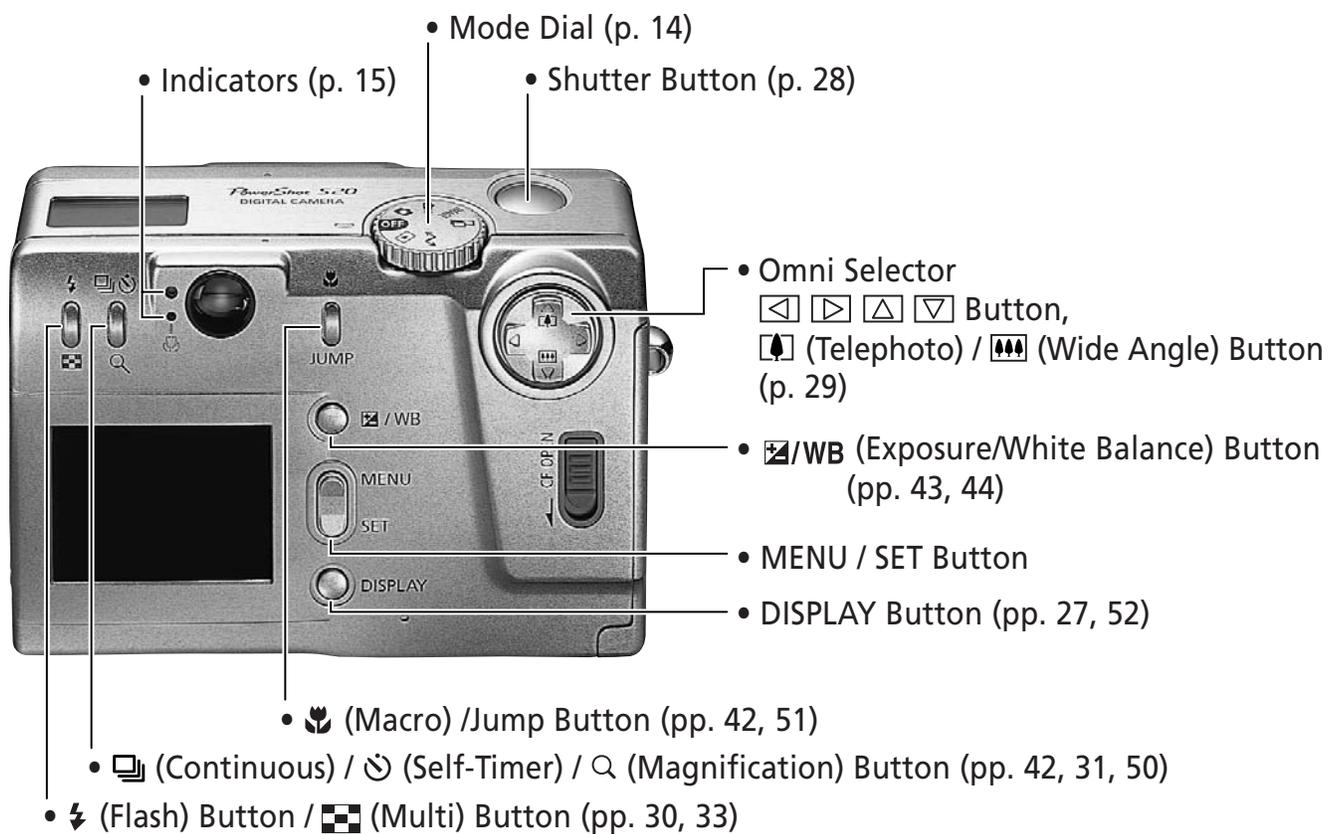
* Used when the camera is connected to a computer. Open the cover and connect the interface cable to the camera's digital terminal and the computer. See the *Software Starter Guide* for additional information.

Back View



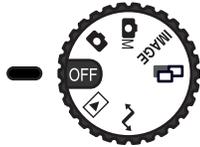
* The LCD monitor is produced with extremely high-precision manufacturing techniques. More than 99.99% of the pixels operate to specification. Less than 0.01% of the pixels may occasionally misfire or appear as black or red dots. This has no effect on the recorded image and does not constitute a malfunction.

Operation Panel



Mode Dial

The Mode Dial is used to select the recording and play modes.



- **OFF (Off)**

Turn the dial to this position when the camera is not being used. The lens cover will close and the camera will power down. (p. 26)

- **📷 (Auto Mode)**

A recording mode in which the camera automatically selects most of the settings. (p. 30)

- **📷M (Manual Mode)**

A recording mode in which the image compression and resolution, exposure compensation and white balance can be manually selected. (p. 35)

- **IMAGE (Image Mode)**

A recording mode with settings adjusted to specific circumstances, such as landscapes, night scenes and black and white images. (p. 36)

- **📷📷 (Stitch Assist Mode)**

A recording mode that facilitates the creation of a multi-frame panorama that you merge with the supplied software. (p. 37)

- **▶ (Play Mode)**

The mode that allows images recorded on a CF card to be replayed and erased. (pp. 33, 50)

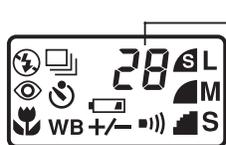
- **↔ (PC Mode)**

The mode for exchanging image files with a connected computer. (See the *Software Starter Guide*)

• "PC" will appear in the display panel when a connection to a computer is established.

Display Panel

The camera status is shown in the display panel. Settings, the remaining image capacity and the battery charge are among the data it displays.



Remaining Image Capacity

: Flash On	: Exposure Compensation On
: Flash Off	: Beep On
: Red-Eye Reduction	: Super Fine
: Macro Mode	: Fine
: Single Mode	: Normal
: Continuous Mode	: Large
: Self-Timer Mode	: Middle
: White Balance On	: Small
: Low Battery	

- The above example shows all the symbols appearing at once for illustration purposes. In fact, only the applicable symbols are displayed at any one time.
- Operating codes and error codes may also appear in the display panel. (p. 73)

Indicators

The indicators shine or flash when the shutter button is pressed to signal various states.

• Upper Indicator

Green:	Ready to record
Flashing Green:	Recording to CF card/ Reading CF card
Red:	Ready to record with flash
Flashing Red:	Camera blur warning (low light warning)

• Lower Indicator

Orange:	Macro mode
---------	------------

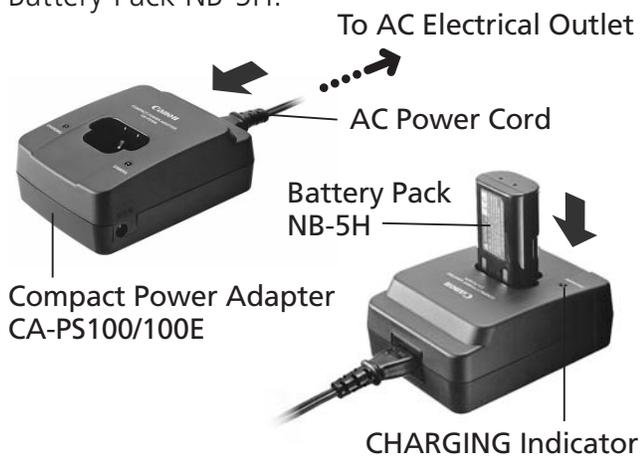
Preparing the Battery Pack

Battery Pack NB-5H, Compact Power Adapter CA-PS100/100E, power cords, DC Coupler DR-100A and 2CR5 lithium batteries are sold separately in some regions.

To confirm the package contents, see the back of the System Map packaged with your camera.

Charging the Battery Pack

Use the procedures below to fully charge Battery Pack NB-5H.



- The CHARGING indicator will flash green while the battery pack is charging. It will change to a steady green when the battery pack is charged.
- Remove the plug from the electrical outlet after the battery pack is charged.

- It takes approximately 90 minutes to charge the battery pack, taking it from a completely discharged state to a fully charged one. (Based on Canon standard testing conditions using Compact Power Adapter CA-PS100/100E.)
- Charge times will vary according to the ambient temperature and the charge state of the battery pack.
- To protect and prolong the battery pack life, do not charge it longer than 24 hours at a time.

- Do not charge the battery pack in poorly ventilated areas.
- Do not charge batteries other than Battery Pack NB-5H with the compact power adapter.

- The battery pack continues to discharge a minimal portion of its power while installed in the camera, even with the camera power off. This will shorten the battery life. Remove it from the camera during extended periods of disuse. Place it into the case provided and store it in a cool, dry place. Be sure to charge it fully before using it after a period of extended storage.
- Repeated recharging before the charge is completely discharged may diminish the charge capacity. Completely discharge and fully charge the battery pack several times to restore its capacity.
- If the time over which the battery pack can be used diminishes substantially even when it is fully charged, the battery pack should be replaced.

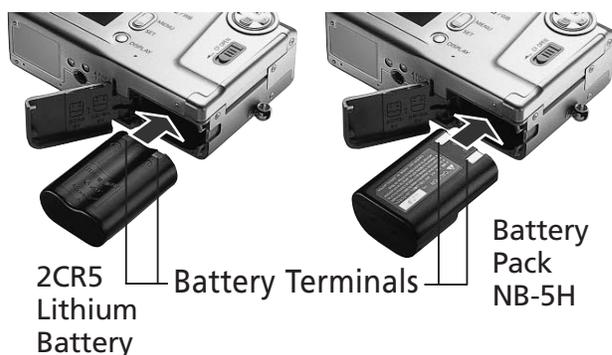
Installing the Battery

Install the 2CR5 lithium battery or the rechargeable Battery Pack NB-5H.

- 1 Turn the Mode Dial to the **OFF** position.
- 2 Slide the battery cover lock in the direction of the arrow and open the battery cover.



- 3 Install the battery as shown in the diagram.



4 Close the battery cover.



- A flashing green indicator signals that an image is being written to, or read from, the CF card. Do not open the battery cover while this is in process.
- Remove the battery from the camera when the camera is not in active use.

- Use the rechargeable Battery Pack NB-5H or the AC adapter (sold separately in some regions) when you use the camera for an extended period of time.
- Replace the supplied 2CR5 lithium battery with a new one of the same type.

Lithium Batteries

- The performance of lithium batteries is severely reduced at low temperatures. Consequently, you may only be able to take a few pictures, even with a brand new 2CR5 lithium battery. To improve the performance at low temperatures, warm the battery in your pocket before using it in the camera. It is also advisable to shut off the LCD monitor and use the optical viewfinder to compose images at temperatures close to 32°F (0°C).
- A lithium battery that appears to have lost its charge at cold temperatures may still be usable at room temperature.
- Do not use a lithium battery that has been used in another camera. A malfunction may result.

Battery Performance

PowerShot S10/PowerShot S20

	No. of Images		Replay (Minutes)
	LCD Monitor On	LCD Monitor Off	
Battery Pack NB-5H (fully charged)	Approx. 55 shots	Approx. 230 shots	Approx. 50 min.
2CR5 Lithium Battery (Sanyo Brand, new)	Approx. 65 shots	Approx. 400 shots	Approx. 80 min.

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

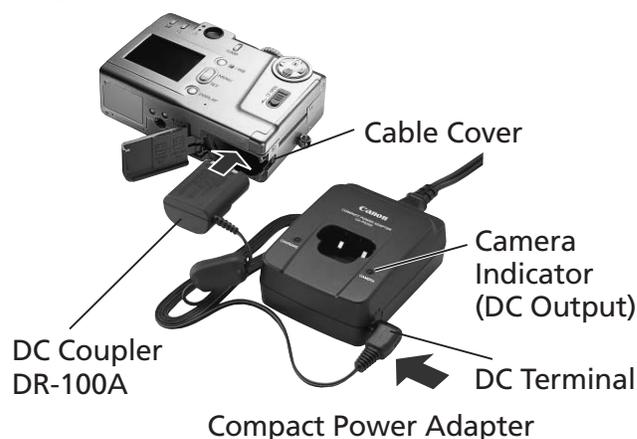
Test Conditions

Recording: 73°F (23°C), **L** (Large)/**■** (Fine), Zoom used, flash used once every 4 shots, CF card used

Replay: 73°F (23°C), continuous replay, 5 seconds per image, CF card used

Using the AC Adapter

You are recommended to use the AC adapter when you will be using the camera for a relatively long period of time. Attach the AC adapter as shown below.



- The CAMERA indicator on the compact power adapter will shine red when it is powering the camera.
- Always remove the plug from the electrical outlet when you have finished using the camera.

- Battery Pack NB-5H cannot be charged while the compact power adapter is used to power the camera.
- Do not use the compact power adapter to power any device other than one for which Battery Pack NB-5H is specified.

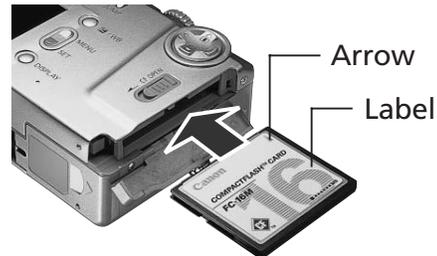
Installing a CF Card

- Please note that CF cards formatted or edited in another manufacturer's camera or application program may not operate correctly in the camera.

- 1 Turn the Mode Dial to the **OFF** position.
- 2 Slide the lock for the CF card slot cover to the open position and open the cover.



- 3 Insert the CF card with the label facing up and the arrow pointing in as viewed from the camera back, pushing it gently in until the slot's eject button is fully extended.



* The CF card supplied with the camera may vary from the one shown in this guide.

- 4 Close the CF card slot cover gently but firmly until it locks.

- Never turn off the power or remove the CF card while the camera is writing to, reading from, or erasing from, the CF card.

About CF Cards

- CF cards are high-precision electronic devices. Do not bend, apply force to, 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 may lead to a malfunction. To avoid condensation, place the CF card into 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, put it aside until the water droplets have evaporated completely.
- 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 strong magnetic fields
 - Locations subject to dust or sand
 - Locations subject to high humidity and high temperatures

CF Cards and Estimated Capacities

		PowerShot S10				PowerShot S20			
		FC-8M	FC-16M	FC-30M	FC-48M	FC-8M	FC-16M	FC-30M	FC-48M
L	 S	4	10	20	31	3	6	14	21
	 F	12	25	52	79	7	16	33	50
	 N	24	49	101	152	15	31	64	97
M	 S	7	15	30	46	8	17	36	55
	 F	18	37	75	114	22	44	91	136
	 N	33	68	140	211	40	82	167	252
S	 S	15	31	63	95	17	36	74	111
	 F	33	68	139	209	46	94	192	289
	 N	61	124	256	384	87	176	355	533

- * These figures reflect standard shooting conditions established by Canon. Actual totals may vary according to the subject and shooting conditions.
- * Some CF cards are not sold in some regions.

- L (Large), M (Middle) and S (Small) indicate the recording resolution as follows.

	PowerShot S10	PowerShot S20
L (Large)	1600 x 1200 pixels	2048 x 1536 pixels
M (Middle)	1280 x 960 pixels	1024 x 768 pixels
S (Small)	800 x 600 pixels	640 x 480 pixels

-  S (Super Fine),  F (Fine) and  N (Normal) indicate the compression, or the relative extent to which the image data is compressed.

Precautions with CF Cards

Please note that the PC card icon may take a moment (about 1 minute) to appear on the Taskbar of certain computers after insertion in a PC card slot. If this occurs, you should delete the Windows standard driver and install the SanDisk ATA FlashDisk device driver. The procedures are described below. Please consult your computer manufacturer if you are uncertain about these procedures.

How to Remove the Windows Standard Driver

1. Insert the CF card (with adapter) into the PC card slot. Right-click the [My computer] icon and select [Properties].
2. The System Properties dialog will appear. Click the [Device Manager] tab and select [View devices by connection] check box at the top.
3. Click the [Computer] option, select the device with the PC card icon and click the [Remove] button.

4. When the Confirm Device Removal dialog appears, click the [OK] button.
5. Close the System Properties dialog.
6. Remove the CF card from the slot.

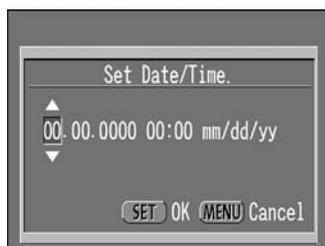
How to Install the SanDisk ATA FlashDisk Device Driver

1. Insert the CF card into the PC card slot.
2. The New Hardware Found dialog will appear. Choose the [Select from a list of alternative drivers] option and click the [OK] button.
3. Select the [Show all devices] option in the Select Device dialog.
4. Select [SanDisk] in the Manufacturers category. SanDisk ATA FlashDisk will automatically be selected in the Models category. Finish by clicking the [OK] button.

Setting the Date and Time

The Set Date/Time menu will appear the first time the camera is turned on after it is purchased. Use the following procedures to set the correct date and time.

- 1 Turn the Mode Dial to the , M, **IMAGE**, or position. The Set Date/Time menu will display the first time the camera is turned on.



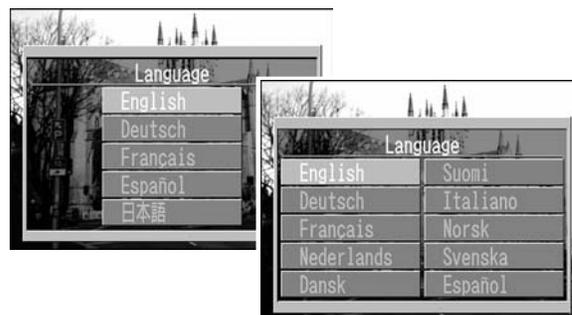
The factory default for the date format may differ from that shown in some regions.

- 2 Set the date, time and date format.
 - Use the or button to select a field, such as month, day, year, hour, minute or date format.
 - Use the or buttons to adjust the value in a field.
- 3 Press the SET button
 - To cancel the setting without changing the date or time, press the Menu button.

Setting the Menu Language

You can change the language in which messages are displayed. The language menu may appear differently on cameras in some regions.

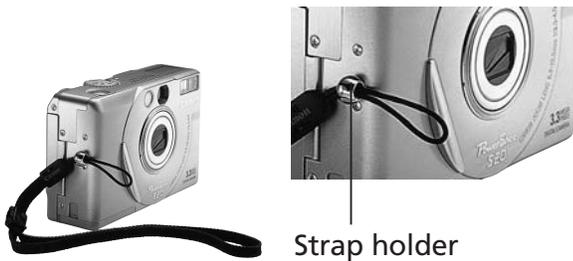
- 1 Turn the Mode Dial to the position.
- 2 Press and hold the SET button, then press the /JUMP button to display the Language menu.



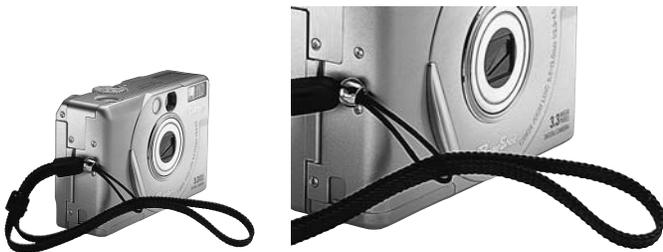
- 3 Use the and buttons to select a language and the SET button to execute the selection.
 - The menu language can also be set with standard Setup menu procedures (p. 66).

Attaching the Wrist Strap

- 1 Slip the small loop at the end of the wrist strap through the strap holder.



- 2 Pass the other end of the wrist strap through the small loop.



- 3 Pull the strap through the loop until the loop slips over the plastic part of the strap.

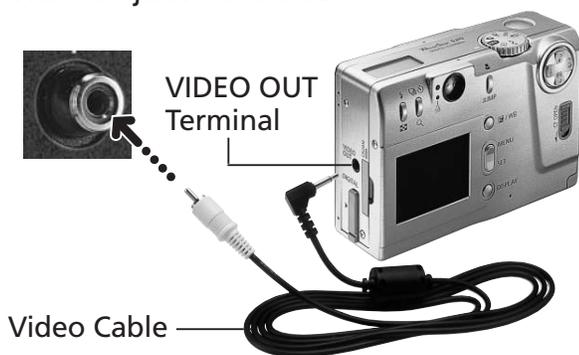


- Be careful not to wave the camera about or to catch it on other items when holding it by the wrist strap.

Connecting to a TV

The supplied video cable (VC-100) can be used to connect the camera to a TV to use the TV as a viewfinder for recording or a monitor for playback.

- 1 Turn the Mode Dial to the **OFF** position.
- 2 Turn off the TV.
- 3 Connect the video cable to the VIDEO OUT terminal on the camera and the Video In jack on the TV.



- 4 Turn on the TV and adjust its settings to video input.

- 5 Turn the camera Mode Dial to the **📷**, **📷M**, **IMAGE**, or **▶** position.

You can now record or play images using the regular procedures and the resultant images will display on the TV screen. If you are recording with the camera and the LCD monitor is off, press the DISPLAY button to have images display on the TV screen.

- The TV connection cannot be used for the Stitch Assist mode.
- The LCD monitor is blank while images are displayed on the TV monitor.
- The TV screen may go blank between images in replay mode.
- Due to the different video signals used throughout the world [NTSC/PAL], a camera purchased in one region of the world may not display images when connected to a TV from another region.

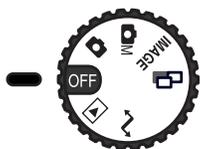
Basic Functions

Now that you have prepared the camera, you are ready to try it out. This section explains the basic procedures for recording, replaying and erasing images. Try each procedure as you read along.

Before Shooting

Turning the Power On/Off

- 1 Turn the Mode Dial to any position other than **OFF** to power the camera. The camera power is off when the Mode Dial is set to **OFF** and on in any other position.



Power Save Function

- Shooting Mode

When the LCD monitor is on, it will automatically shut off after approximately 3 minutes if no functions are accessed. If a further 30 minutes, approximately, pass without a function being accessed, the camera will power down.

In Stitch Assist mode, the camera powers down after approximately 3 minutes if no functions are accessed.

When the LCD monitor is off, the camera will power down after approximately 30 minutes if no functions are accessed.

- Play Mode

The camera will power down after approximately 30 minutes if no functions are accessed.

- PC Mode

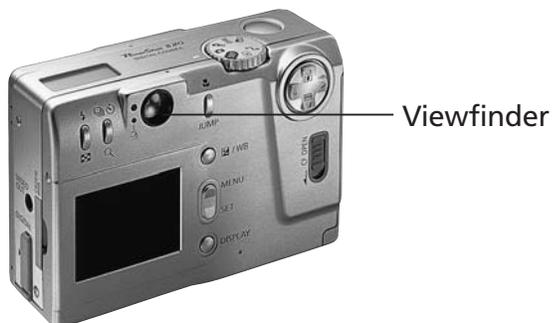
A warning message will display on the computer monitor after approximately 5 minutes if no functions are accessed. The camera will automatically power down 1 minute after that if no functions are accessed (except when the camera is powered by an AC adapter).

Press the shutter button halfway to restore power to the camera after the power save function has activated.

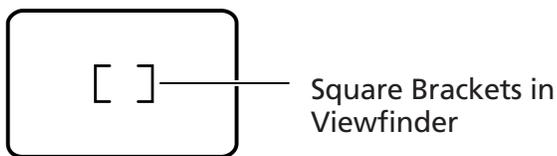
Please note that the power save function will not activate while images are being replayed in a slide show.

Using the Viewfinder

The camera is equipped with an optical viewfinder for composing ordinary photographs.



- 1 Look through the viewfinder to align the camera with the primary subject. The square brackets (autofocus metering field) in the viewfinder should be placed on the primary subject.



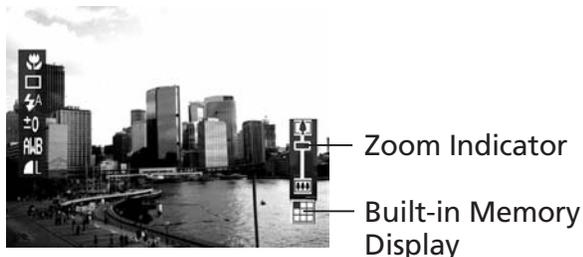
Using the LCD Monitor

Use the LCD monitor to compose close-up images in macro mode.



- 1 Press the DISPLAY button. The button switches the LCD monitor between the on, information view and off modes with each push.
- 2 Look at the image appearing in the LCD monitor to compose the shot. Try to align the primary subject in the center of the screen.

- The following data is shown in information view.



Macro Mode		White Balance	
Shooting Methods			
Flash		Compression	
Exposure Compensation		Resolution	

- The last on/off setting of the LCD monitor is saved when the power is manually shut off. The camera will automatically restore the LCD monitor to the last setting at startup.
- However, until the battery is replaced, the LCD monitor will not turn on automatically if a low battery caused the power to shut off automatically.

- The image in the LCD monitor will darken when struck by direct sunlight or strong illumination. This does not constitute a malfunction.

Using the Shutter Button

The shutter button features a two-stage action.

Pressing Halfway

Lightly press the shutter button halfway to automatically set the exposure and focus settings. The camera will beep twice and the upper indicator will shine green (red for flash) when the metering is finished.

- The lower indicator will also shine orange when the camera is ready in macro mode.

Pressing Fully

Press the button all the way down to activate the shutter. The beep will sound once. The upper indicator will flash green while the image is being recorded onto the CF card.

- The recorded image will be temporarily stored in the camera's built-in memory and then be written to the CF card. As long as there is sufficient built-in memory free, the next image can be recorded immediately after the previous image.
- With the LCD monitor in information view mode, you can view the status of the image being written to the CF card with the memory display (built-in) at the bottom right.

- The camera blur warning icon (📷) will appear at the center of the LCD monitor and the upper indicator will flash red when there is insufficient light. Activate the flash or secure the camera on a tripod before shooting.

Setting the Zoom

The zoom can be adjusted to any setting in the 35 to 70 mm range for the PowerShot S10 and the 32 to 64 mm range for the PowerShot S20 in 35 mm film equivalent terms.

Telephoto/Wide Angle Settings

- 📷 Button: zooms in on subject (telephoto). Subject appears closer.
- 📷 Button: zooms out from subject (wide angle). Subject appears more distant.



Confirm the setting with the zoom indicator.

The digital zoom range is indicated by the blue portion (information view).

Digital Zoom

The digital zoom function can be activated by continuing to press the 📷 button after it seems to have reached the end. It will further zoom the center of the field by 2 or 4 times. (This function combines the optical zoom with a digital teleconverter feature. Please note that the resolution is not enhanced when an image is zoomed.)

The digital zoom can be activated when the LCD monitor is on and the digital zoom function (p. 47) is set to On in the Recording menu.

- The image shown in the LCD monitor will be coarse when the digital zoom is active. You can confirm the true quality of the recorded image immediately after recording. See Review Feature. (p. 48)

Shortcut

Double-click the 📷 button with the lens zoomed out to its furthest extent to activate the digital zoom function directly.

Shooting in Auto Mode

In auto mode, the focus, exposure and flash settings are automatically set, making it possible for anyone to photograph effortlessly. The resolution is preset to Large and the compression to Fine and these settings cannot be changed in this mode.

- 1 Turn the Mode Dial to the  position.



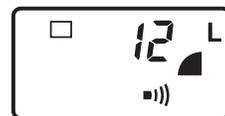
- 2 Point the camera at the center of the subject.
- 3 Choose how close you wish the subject to appear with the  or  button.
- 4 Press the shutter button halfway and wait for two beeps to sound.
- 5 Press the shutter button the rest of the way. One beep will sound and the shutter will activate.

- In auto mode, the flash can be set to Off and the macro and self-timer features can be used, but the settings are reset to the defaults when the Mode Dial is turned to another position.

Using the Flash

Use the flash as required by the shooting conditions.

- 1 Turn the Mode Dial to the  position.
 - You can also use the flash with the Mode Dial set to the , **IMAGE** or  position.
- 2 Press the  button to cycle through the flash settings.



(No symbol appears)
Flash fires automatically as required by the light levels.



 (Red-Eye Reduction)
Flash fires using the red-eye reduction function.



 (Flash On)
Flash fires with every shot.



 (Flash Off)
Flash will not fire

3 Shoot.

- The flash is set to fire when the indicator shines red.

Flash Settings

The flash cannot be fired in certain shooting modes.

	Auto Flash	 Red-Eye Reduction	 On	 Off
Auto	•	–	–	•
Manual	•	•	•	•
Image	•	•	•	•
Stitch Assist	–	–	◇	◇

Note: ◇ indicates modes in which the flash setting can only be adjusted for the first image.

Red-Eye Reduction

The red-eye phenomenon is caused by light reflecting back from eyes photographed in dark areas with a flash. It can be prevented by recording in the  red-eye reduction mode.

The mode reduces the red-eye appearance by lighting an incandescent lamp when the shutter button is pressed halfway.

Using the Self-Timer

- 1 Turn the Mode Dial to the  position.
 - You can also use the self-timer with the Mode Dial set to the , **IMAGE** or  position.
- 2 Press the  button.



- 3 Press the shutter button.
The self-timer indicator will flash and the shutter will activate after 10 seconds. The flashing will accelerate two seconds prior to

the shutter activation. To deactivate the self-timer mode, press the  button.

- Turn the Mode Dial to **OFF** to cancel a self-timed shot after the shutter button has been pressed.

Using the Focus Lock

Use the focus lock to bring a main subject at the edges of a composition into focus or when the subject is not suited to autofocus photography.

- 1 Turn the Mode Dial to the , , **IMAGE** or  position.
- 2 Aim the camera directly at the subject so that it is centered in the viewfinder.
- 3 Press the shutter button halfway and wait until the two beeps sound.
- 4 Keep your finger on the shutter button, reorient the camera to the desired composition, and press the shutter button all the way. A beep will sound and the shutter will activate.

Situations Not Suited to Autofocus Photography

The following situations are not suited to autofocus photography.

- Subjects with extremely low contrast
- Subjects that mix close objects with distant objects
- Subjects with extremely bright objects at the center of the image
- Subjects that are moving quickly

To take photographs under these conditions lock the focus on an object the same distance away from the camera as the one you wish to photograph and then reposition the camera to achieve your desired shot.

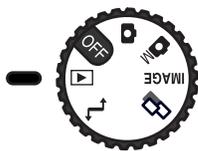
When recording through glass, try to shoot as close to the glass as possible to reduce the chances of light reflecting back off the glass.

- Please see the next section, Shooting, pages 35 to 49, for a description of other shooting features.

Replaying Images

Photographed images can be viewed in play mode on the LCD monitor.

- 1 Turn the Mode Dial to the  position.



The last photographed image will appear in the display (single image replay).



- 2 Use the  and  buttons to switch to the previous or next image.

- 3 Press the  button.
Nine images are shown at once (multi image replay). Each press of the  button cycles the display between the single and multi image replay modes.



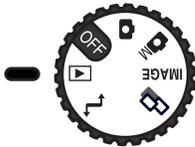
Selected Image

- 4 Use the , ,  and  buttons to move the selection to a particular image.
- 5 Turn the Mode Dial to **OFF** to cancel the replay mode.

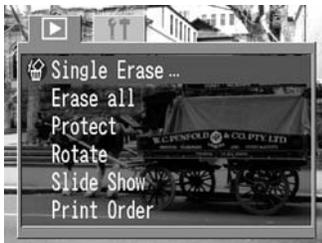
- Please see Replaying, pages 50 to 59, for a description of other replay features.

Erasing Single Images

- 1 Turn the Mode Dial to the  position.



- 2 Press the MENU button.
- 3 Use the  button to select the [Single Erase]. Press the SET button.



- 4 Use the  and  buttons to select an image. Press the SET button.

- 5 Select [OK] with the  button. Press the SET button.

To erase additional images, repeat steps 4 and 5. To stop partway through the procedure, select [Cancel]. Press the SET button.



- 6 Press the MENU button to stop erasing.
- 7 Turn the Mode Dial to **OFF**.

Shortcut

The erase confirmation menu can be directly displayed by holding the Set button and pressing the  button.

- Please see Erasing, pages 60 to 62, for a description of other erasing features.

Shooting

This section explains how to photograph in the Manual, Image and Stitch Assist modes. Read this section for a detailed understanding of the general recording features.

Shooting in Manual Mode

In this mode, you can manually select features such as resolution, compression, exposure compensation and white balance settings.

- 1 Turn the Mode Dial to the M position.
- 2 Adjust the settings as required.
 - You can adjust all settings, such as the flash, continuous shooting, exposure compensation, white balance, image quality (gain, contrast and sharpness) and the AE lock.
 - The camera remembers these settings, except for the macro, self-timer and continuous mode settings, even when the Mode Dial is turned to another position or the battery is replaced.

Functions Available only in manual mode

AE Lock (p. 45)
Exposure Metering Mode (p. 45)
Gain/Contrast/Sharpness (p. 46)

- 3 Shoot.

Shooting in Image Mode

In image mode, the camera automatically optimizes its shooting settings for specific circumstances, such as landscapes, moving objects, night scenes and black and white images.

 Landscape:	for recording broad expanses of scenery
 Fast Shutter:	for recording fast moving objects, such as sports figures
 Slow Shutter:	for recording moving objects to make them appear blurred, such as river rapids
 Night Scene:	for recording night shots of scenery or people against dark backgrounds
 Black & White:	for recording monochrome images

- 1 Turn the Mode Dial to the IMAGE position.
 - The LCD monitor will turn on.
- 2 Use the  and  buttons to select an image mode. Press the SET button.



- To change the selected image mode, press the SET button again.
- 3 Shoot.

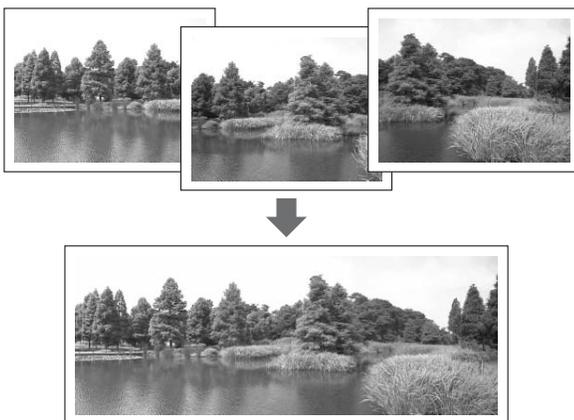
- The AE lock, exposure metering method and image quality adjustments (gain, sharpness and contrast) cannot be adjusted in this mode.
- The macro mode is not available in the  (Landscape) and  (Night Scene) modes.
- The white balance cannot be adjusted in the  (Black & White) mode.

Shooting in Stitch Assist Mode

In Stitch Assist mode, you can shoot images that overlap for later merging into a panorama with software on a computer. Images can be photographed in horizontal, vertical or 2 x 2 arrangements.

- Please use the supplied PhotoStitch program to merge the images on a computer.

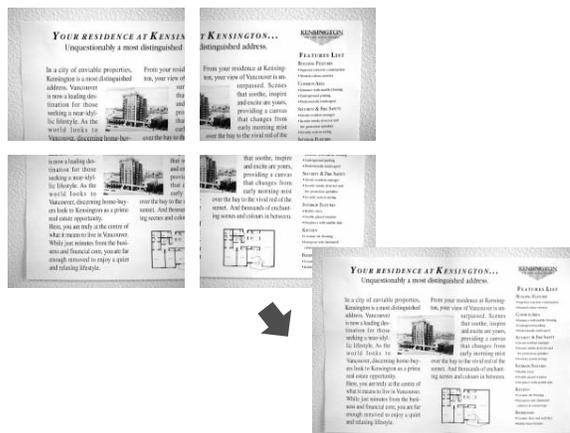
Horizontal Series



Vertical Series



2 x 2 (Matrix)



What is the Stitch Function?

- Stitching is the process of merging digital camera images so that the seams are invisible. Expansive scenes can be dynamically presented in their entirety.

How to Frame a Subject

The stitch function detects the overlapping portions of adjoining images and merges them. When shooting, try to include a distinctive item in the overlapping portion.



- Compose each frame so that it overlaps 30% to 50% of the width of the adjoining image. Try to keep any vertical misalignment to within 10% of the image height.
- Do not include moving items in the overlap.

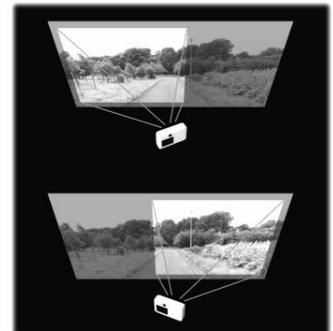
- Do not try to stitch images that include both distant and close items. Objects may appear warped or doubled up.
- Make the brightness as consistent as possible. The final image will appear unnatural if the difference in brightness is too large.

Camera Positioning

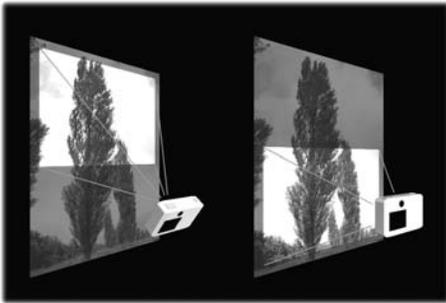
Landscapes

To record distant landscapes, pan the camera (tilt or swivel the camera on its own axis).

For a horizontal series, swivel the camera left or right.

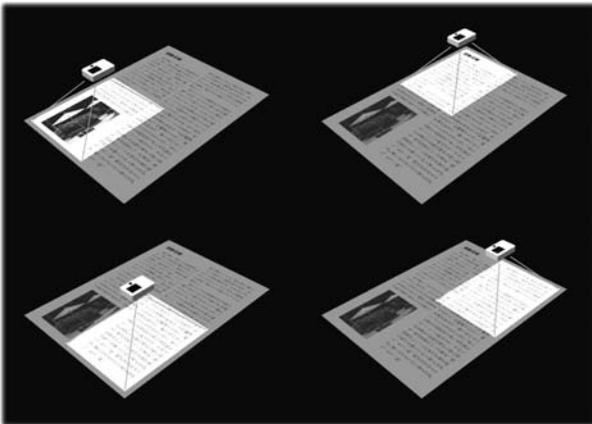


For a vertical series, tilt the camera up or down.



Documents

To record close-ups of documents, shift the camera above the document, keeping it parallel to the document.



Shooting

Select from the following image arrangements.

-  Right: left to right in a horizontal plane
-  Left: right to left in a horizontal plane
-  Up: bottom to top in a vertical plane
-  Down: top to bottom in a vertical plane
-  2 x 2: clockwise starting from the top left

- 1 Turn the Mode Dial to the  position.
 - The LCD monitor will turn on.
- 2 Use the  and  buttons to select an image arrangement. Press the SET button.
 - You can also press the shutter button at this point without pressing the SET button.



3 Shoot the first frame.

- Press the SET button again if you wish to change the image arrangement setting.
- The settings for the exposure and white balance are locked at the values used for the first image.

4 Shoot the second image so that it overlaps the first.

- Horizontal  Example



- 2 x 2  Example



- Pressing the , ,  or  button returns the display to the previously captured images so that you can rerecord an image.

5 Repeat the previous steps to record additional frames.

- A maximum of 26 images can be recorded in either the horizontal or vertical direction.

6 Press the SET button after the last image has been recorded.

- Minor discrepancies in the overlapping portions can be corrected when the images are stitched together.

- The zoom, flash on/off, exposure compensation, white balance and resolution settings can only be set for the first image in the series.
- The digital zoom, image quality (gain, sharpness and contrast) and continuous, auto flash, red-eye reduction, AE lock, and exposure metering modes cannot be adjusted in this mode.
- A TV cannot be used as the viewfinder in this mode.

Changing the Resolution/Compression

Images can be recorded at the following resolution and compression settings.

Resolution

	PowerShot S10	PowerShot S20
L (Large)	1600 x 1200 pixels	2048 x 1536 pixels
M (Middle)	1280 x 960 pixels	1024 x 768 pixels
S (Small)	800 x 600 pixels	640 x 480 pixels

Compression

Superfine:		Fine:		Normal:	
------------	---	-------	---	---------	---

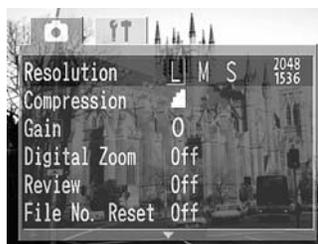
Approximate File Size of One Image

Resolution (pixels)	Compression		
PowerShot S10			
L (1600 x 1200)	1458 KB	580 KB	300 KB
M (1280 x 960)	986 KB	402 KB	213 KB
S (800 x 600)	480 KB	215 KB	113 KB
PowerShot S20			
L (2048 x 1536)	2100 KB	916 KB	474 KB
M (1024 x 768)	835 KB	334 KB	177 KB
S (640 x 480)	410 KB	153 KB	80 KB

- The actual volume may vary from the above data according to the shooting conditions and recording mode.
- See page 21 for the number of images that will fit on CF cards of varying capacities.

- 1 Turn the Mode Dial to the , **IMAGE** or  position. Press the MENU button.
- 2 Use the  and  buttons to select [Resolution] or [Compression] in the menu.
- 3 Use the  and  buttons to select a setting.

• Number of Pixels Recorded



* This is a PowerShot S20 example.

• Compression Ratio



- Press the MENU button to accept the setting and return to recording mode.

Shooting Close-Ups (Macro Mode)

Use the macro mode to record subjects close to the lens. The range is 4.7 to 18 in. (12 to 46 cm) from the tip of the lens for the PowerShot S10 and 4.7 to 26 in. (12 to 66 cm) for the PowerShot S20. Always use the LCD monitor in macro mode to check the image composition and focus.

- 1 Turn the Mode Dial to the , , **IMAGE** or  position.
- 2 Press the  (Macro) button.

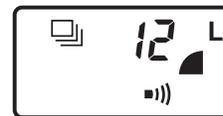


3. Shoot, taking particular care not to let the camera shake.
 - Pressing the  button again cycles the macro mode to off.

- The lower indicator will shine orange when the shutter button is pressed halfway in macro mode.

Shooting Continuously (Continuous Mode)

- 1 Turn the Mode Dial to the  or **IMAGE** position.
- 2 Press the  button until the  icon shows in the Display panel.



- 3 Shoot.
 - The camera will shoot continuously while the shutter button is held down. Recording will stop when you release the shutter button.

- The PowerShot S10 will shoot continuously at the speed of 1.7 images per second and the PowerShot S20 at 0.8 images per second* (when the LCD monitor is off).
- When the camera's built-in memory becomes full, the interval between shots will be a little longer.

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

Adjusting the Exposure Compensation

Use the exposure compensation feature when a backlit object appears too dark or lights are too bright in a night scene.

- 1 Turn the Mode Dial to the , **IMAGE** or  position.
- 2 Press the /WB button to display the exposure compensation settings bar.
- 3 Use the  and  buttons to select an adjustment value.



Exposure Compensation Settings Bar

- You can take a shot anytime by pressing the shutter button.
- Press the SET button to close the exposure compensation settings bar. The chosen exposure compensation setting will remain in effect until it is changed.
- This setting is maintained even after the Mode Dial is turned. (The +/- icon will appear in the Display panel and the exposure compensation value will appear in the LCD monitor.)
- Press the /WB button again to display the white balance settings, which can be adjusted at this point.
- Each press of the /WB button cycles between the “no display,” exposure compensation bar and white balance settings bar.
- In  (Stitch Assist) mode, the exposure setting is locked after the first image. It cannot be adjusted from the second image onward.

Setting the White Balance

Adjust the white balance settings to respond to shooting conditions when you are recording outdoors or under artificial illumination.

 Auto:	for recording with the settings automatically selected by the camera
 Daylight:	for recording outdoors on a bright day
 Cloudy:	for recording under overcast, shaded, dusk or evening skies
 Tungsten:	for recording under tungsten lighting
 Fluorescent:	for recording under fluorescent lighting

- 1 Turn the Mode Dial to the M, **IMAGE** or  position.
- 2 Press the /WB button once to display the exposure compensation settings and a second time to display the white balance settings.

- 3 Use the  and  buttons to select a white balance mode.



- You can record anytime by pressing the shutter button.
- Press the /WB button or the SET button to close the white balance settings bar. The chosen white balance mode will be in effect thereafter until it is changed.
- This setting is maintained even after the Mode Dial is turned. (The **WB** icon will appear in the Display panel and the selected white balance icon will appear in the LCD monitor.)
- In  (Stitch Assist) mode, the setting can only be adjusted for the first image.

Shooting with the AE Lock

When the AE lock is used, you can meter the exposure and focus independently. Use this function when you need to change the image composition after you have set the exposure setting.

- 1 Turn the Mode Dial to the M position. Press the DISPLAY button to turn on the LCD monitor.
- 2 Aim the camera so that the subject you wish to meter is centered in the LCD monitor.
- 3 Press and hold the shutter button halfway while you press the SET button.
 - The AE lock will take effect and the LCD monitor will display an asterisk (*) close to its center. The exposure setting will now be maintained even if you release the shutter button.
- 4 Compose the image and shoot.
 - The camera will focus on the object at the center of the viewfinder.
 - The AE lock will release if you press a button other than the shutter button or if you turn the Mode Dial. The AE lock will also automatically release if the power save function activates.

Setting the Exposure Metering Method

Although the exposure metering method is normally set to the Center-weighted mode, you can change it to the spot mode and record an image.

Center-Weighted:

measures the average light from the entire image area, weighting the value of the light detected at the center of the viewfinder more heavily.

Spot:

measures the light from the center of the field only. Use this option when the subject is backlit or surrounded by bright light.

- 1 Turn the Mode Dial to the M position. Press the DISPLAY button to turn on the LCD monitor.

- 2 Hold the SET button. Press the  or  button to select a metering method.



- Release the SET button to make the setting effective.
- In the spot mode, a frame indicating the metering field is shown in the LCD monitor. The camera measures the light in the area covered by this frame.
- You can record anytime by pressing the shutter button.

Adjusting Image Quality Settings

The gain, contrast and sharpness can be adjusted for recording.

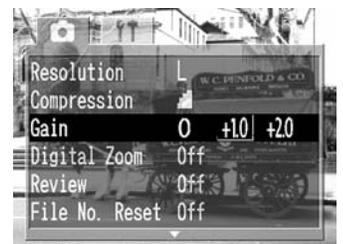
Gain: 0 (Normal), +1.0 (Gain +1), +2.0 (Gain +2)

Contrast: - (low), 0 (normal), + (high)

Sharpness: - (low), 0 (normal), + (high)

- 1 Turn the Mode Dial to the  position. Press the MENU button.
- 2 Use the  and  buttons to select the [Gain], [Contrast] or [Sharpness].
- 3 Use the  and  buttons to select a setting.

- **Gain**



• Contrast



• Sharpness



• Press the MENU button to close the menu.

- The 0, +1.0 and +2.0 gain settings are equivalent to the respective ISO 100, 200 and 400 sensitivity levels. Raise the gain when you wish to record in dark surroundings or when you wish to increase the shutter speed.
- Raising the gain may increase the “noise” in the image. To obtain the clearest image, set the gain to 0.

Recording Settings

Switching the Digital Zoom On/Off

- 1 Turn the Mode Dial to the or position. Press the DISPLAY button to turn on the LCD monitor.
 - The setting cannot be adjusted when the LCD monitor is off.
- 2 Press the MENU button. Use the and buttons to select the [Digital Zoom].
- 3 Use the and buttons to select [On] or [Off].



• Press the MENU button to close the menu.

- The digital zoom can only be used when the LCD monitor is on. (pp. 27, 29)

Switching the Review Feature On/Off

Setting this feature on or off determines whether or not you can review the photographed image in the LCD monitor when the LCD monitor is turned off.

- 1 Turn the Mode Dial to the , , **IMAGE** or  position. Press the MENU button.
- 2 Use the  and  buttons to select [Review].
- 3 Use the  and  buttons to select [On] or [Off].



- Press the MENU button to close the menu.

Review Feature

When the review feature is set to On, or when the LCD monitor is on, the photographed image will show in the LCD monitor if you continue to hold down the shutter button fully after recording. If you press the SET button at this point, the image will continue to display in the LCD monitor even if you release the shutter button. You can also erase the image immediately if you wish (p. 60).

Cancel the review feature by pressing the shutter button halfway.

Resetting the File Number

Select the way image file numbers are assigned with this feature.

- On:** The next file number assigned is reset to the initial value (100-0001) each time a new CF card is inserted. Images recorded onto a CF card containing existing images are assigned the next available file number on that card.

Off: The last assigned file number is stored and the next available file number is assigned to an image recorded on any CF card, including a new CF card.

- 1 Turn the Mode Dial to the **IMAGE** or position. Press the MENU button.
- 2 Use the and buttons to select [File No. Reset].
- 3 Use the and buttons to select [On] or [Off].

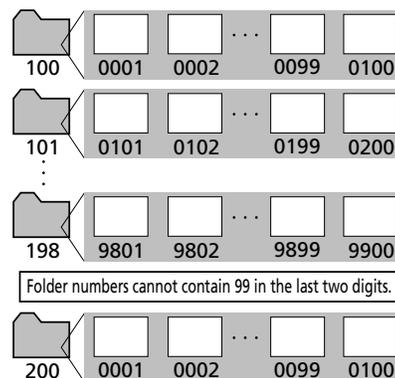


- Press the MENU button to close the menu.

- Recording with the File No. Reset option set to Off is convenient when the image files are downloaded to a computer because duplicate file names can be avoided.

File Number Conventions

A photographed image is assigned a number ranging from 0001 to 9900 and stored in a folder containing up to 100 files. The folders are assigned numbers ranging from 100 to 998.



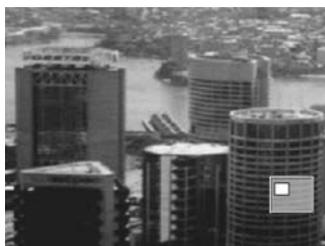
- Images shot in continuous or Stitch Assist mode are always kept in the same folder, which may result in some folders containing 101 or more files.

Replaying

This section explains the various replay features, including how to magnify and rotate the image in the LCD monitor or show images in slide shows. It also discusses DPOF print settings.

Magnifying an Image (Single Image Replay)

- 1 Turn the Mode Dial to the  position.
- 2 Press the  button.



Approximate position within the image.

- You can use the , ,  and  buttons to shift the display within the image.
- Press the  button again to end the magnification mode.
- The currently displayed image can be deleted by holding the SET button down and pressing the  button. (p. 60)

Rotating an Image

- 1 Turn the Mode Dial to the  position. Press the MENU button.
- 2 Use the  and  buttons to select [Rotate]. Press the SET button.



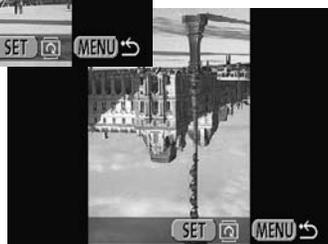
- Subsequently, the image will rotate clockwise to the next orientation (90°, 270° and 0°) each time the SET button is pressed.



0°
(Original)



90°



270°

- Press the MENU button to end the Rotate feature.

- Images that have been rotated with the camera may not, depending on the software program used for loading, remain rotated when loaded onto the computer.

Jumping Images

The display can be jumped forward or back.

- 1 Turn the Mode Dial to the  position.
- 2 Press the JUMP button.



Single Image Replay

- Press the  or  button to jump to the tenth image ahead or behind.
- Press and hold the SET button and press the  or  button to jump to the first or last image.

Multi Image Replay

- Press the  or  button to jump to the next set of 9 images ahead or behind.
- Press and hold the SET button and press the  or  button to jump to the first or last set of 9 images.
- Press the JUMP button again to end the jump feature.

Viewing Image Information

- 1 Turn the Mode Dial to the  position.
- 2 Press the DISPLAY button.
 - The LCD monitor will cycle to the next display mode (simple, detail, non display) each time the DISPLAY button is pressed. The detail display is not available in multi image replay mode.

- The following information is shown in the simple display mode.
 - File number; Shooting date/time; Protection status (.
- The following information is also shown in the detailed display mode.
 - Image mode (, , , , )
 - Macro mode ()
 - Shooting methods (, , )
 - Flash (, )
 - Exposure compensation ()
 - White balance (, , , , , )
 - Compression (, , )
 - Resolution (, , )
 - Stitch Assist mode status

Automated Playback (Slide Show)

Starting a Slide Show

You can start a slide show with the following procedures.

- All Images:** displays all images on the CF card in order
- Show 1 - Show 3:** displays the images selected for the respective slide show in order

- 1 Turn the Mode Dial to the  position. Press the MENU button.
- 2 Use the  and  buttons to select the [Slide Show]. Press the SET button.



- 3 Use the  and  buttons to select [Program].
- 4 Use the  and  buttons to select [All Images], [Show 1], [Show 2] or [Show 3].



- 5 Use the , ,  and  buttons to select [Start]. Press the SET button.
 - The slide show will start.
 - Press the SET button to pause or restart it.
 - When a slide show is paused, or the Play Time is set to Manual, you can use the  and  buttons to view the previous or next slide.
 - Press the MENU button to stop a slide show.

Selecting Slide Show Images

Mark particular images for replay in a slide show and save them as slide shows 1, 2 or 3. One slide show can contain up to 100 images.

- 1 Display the Slide Show menu.
- 2 Use the  and  buttons to select [Program].
- 3 Use the  and  buttons to select [Show 1], [Show 2] or [Show 3].
- 4 Use the , ,  and  buttons to choose [Select]. Press the SET button.



- 5 Use the  and  buttons to move between images and the  button to mark the image.

A number representing the order of the marked image in the slide show will appear at the top of the LCD monitor. The image will automatically play in that order.



- Press the  button to unmark the selected image.
- Press the  button to switch between the single image replay and multi image replay modes (3 images) to select images.
- When in multi image replay mode, you can deselect all the images at once. Press the SET button, use the  and  button to select [OK] and press the SET button.
- Press the MENU button to close the Select menu.

Setting the Play Time

You can set the number of seconds that an image is shown. The available options are 3-10, 15 and 30 seconds and manual.

- 1 Display the Slide Show menu.
- 2 Use the , ,  and  buttons to select [Setup]. Press the SET button.
- 3 Use the  and  buttons to select [Play Time].
- 4 Use the  and  buttons to select an option.



- Press the MENU button to close the Setup menu.

• The actual play time of some images may vary slightly from the specified play time.

Setting the Auto Replay On/Off

You can set the slide show to close after it finishes displaying all its images or to automatically repeat.

- 1 Display the Slide Show menu.
- 2 Use the , ,  and  buttons to select [Setup]. Press the SET button.
- 3 Use the  and  buttons to select [Repeat].
- 4 Use the  and  buttons to select [On] or [Off].



- Press the MENU button to close the Setup menu.
- Slide shows can be easily edited with the supplied software, ZoomBrowser EX (Windows) or PowerShot Browser (Macintosh).

Print Settings (DPOF Settings)

Images can be marked for printing with Digital Print Order Format (DPOF) compliant digital printers or at photo developing service outlets.

Selecting Images for Printing

There are two ways to select images for printing.

- Mark Selected Images:** selects images individually for printing
- Mark All Images:** selects all images on the CF card for printing (prints 1 copy).

- 1 Turn the Mode Dial to the  position. Press the MENU button.
- 2 Use the  and  buttons to select [Print Order]. Press the SET button.



- 3 Use the  and  buttons to select [Order]. Press the SET button.



- 4 Specify the number of prints.

Mark Selected Images

Specify one of the following for the print type. (p. 57)

For the Standard or Both options, use the  and  buttons to select an image and the  and  buttons to specify the number of copies.

For the Index option, use the  and  buttons to select an image and press the  button. To deselect the images, press the  button again.

- Press the  button to switch between the single image replay and multi image replay modes (3 images) to select images.



Mark All Images

This function is available in the multi image replay mode.

Press the SET button. Use the  and  buttons to choose [Mark all], and press the SET button again.

To deselect all the images, select [Clear all] and press the SET button. To cancel the operation, select [Cancel] and press the SET button.



- Press the MENU button to close the Print menu.

- Images will be printed in the order of older to newer.
- A maximum of 998 images may be marked for printing.

- Please note that the print settings created on a CF card by a DPOF-compliant camera other than a PowerShot S10 or PowerShot S20 may be overwritten when used in either model.
- Some printers or photo developing services may not be able to handle the print settings.

Selecting the Print Type

The following print type may be specified.

- Standard:** prints one image per page
Index: prints images in a reduced size in an index format
Both: prints both standard prints and an index

- 1 Display the Print Order menu.

- 2 Use the  and  buttons to select [Setup]. Press the SET button.
- 3 Use the  and  buttons to select [Print Type].
- 4 Use the  and  buttons to select [Standard], [Index] or [Both].



- Press the MENU button to close the Setup menu.

Setting the Date/Time Print Function

- 1 Display the Print Order menu.
- 2 Use the  and  buttons to select [Setup]. Press the SET button.
- 3 Use the  and  buttons to select [Date].

- 4 Use the ◀ and ▶ buttons to select [On] or [Off].



- Press the MENU button to close the Setup menu.

- The date printout will be in the style selected in the Set Date/Time option. (p. 65)

Setting the File Number Print Function

- 1 Display the Print Order menu.
- 2 Use the ◀ and ▶ buttons to select [Setup]. Press the SET button.
- 3 Use the ▲ and ▼ buttons to select [File No.]
- 4 Use the ◀ and ▶ buttons to select [On] or [Off].



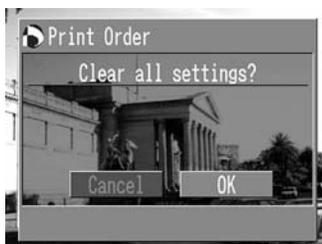
- Press the MENU button to close the Setup menu.

- The date and file number data cannot be selected for printing at the same time when the print type is set to Index.

Resetting Print Settings

This procedure deletes all the image print settings, including the date and file number print settings.

- 1 Display the Print Order menu.
- 2 Use the  and  buttons to select [Reset]. Press the SET button.
- 3 Use the  and  buttons to select [OK]. Press the SET button.



Erasing

This section explains how to erase images recorded onto a CF card and how to protect important images from accidental erasure.

Quick Erase

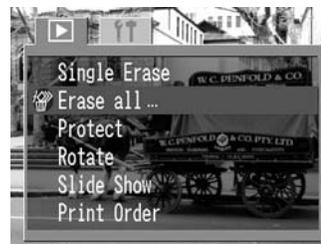
The camera buttons can be used to delete an image directly when in the single image replay (p. 33), multi image replay (p. 33) or review mode (p. 48).

- 1 Hold the SET button and press the  button.
- 2 Use the  and  buttons to select [OK]. Press the SET button.



Erasing All Images

- 1 Turn the Mode Dial to the  position. Press the MENU button.
- 2 Use the  and  buttons to select [Erase all]. Press the SET button.



- Protected images are not erased.

- 3 Use the  and  buttons to select [OK]. Press the SET button.



- If you want to stop the erase procedure, select Cancel.

- Protected images are not erased.
- Please note that erased images cannot be recovered. Please exercise adequate caution before erasing a file.

Protecting Images

You can protect important images to prevent their accidental erasure.

- 1 Turn the Mode Dial to the  position. Press the MENU button.
- 2 Use the  and  buttons to select [Protect]. Press the SET button.



- 3 Use the  and  buttons to select an image. Press the SET button to protect it.

Protected images will be shown with the  icon.



Protected Icon

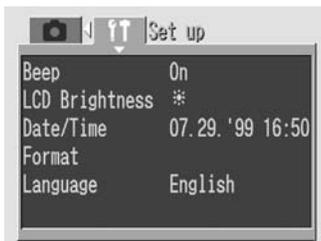
- The image protection is removed if the SET button is pressed a second time after Step 3.
 - Press the  button to switch between the single image replay and multi image replay modes to select images.
 - Press the MENU button to close the Setup menu.
- All data, including protected images, will be erased when a CF card is formatted with the [Format] command.

Camera Settings

This section explains about the camera settings, such as the beep, the date and time and CF card formatting.

Displaying the Setup Menu

- 1 Turn the Mode Dial to the , , **IMAGE**,  or  position.
- 2 Press the MENU button.
 - The  Rec. Menu or  Play menu will display.
- 3 Use the  button to select the  Setup menu.

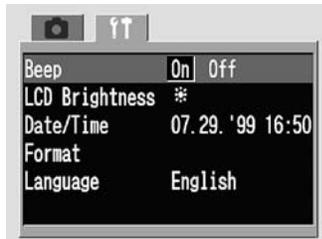


- The procedures for accessing the Setup menu are the same from both the  Rec. menu and the  Play menu.
- After you have adjusted the settings, press the MENU button to close the Setup menu.

Setting the Beep On/Off

The beep sounds when the shutter button or another button is pressed during a menu operation.

- 1 Display the Setup menu (p. 63).
- 2 Use the  and  buttons to select [Beep].
- 3 Use the  and  buttons to select [On] or [Off].



- The warning beep is not controlled by the beep setting.

Adjusting the LCD Monitor Brightness

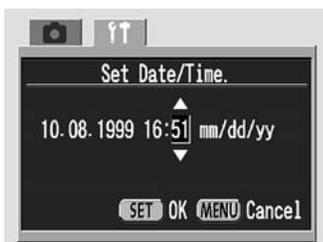
The LCD monitor can be set to either the normal  or bright  setting.

- 1 Display the Set up menu (p. 63).
- 2 Use the  and  buttons to select [LCD Brightness].
- 3 Use the  and  buttons to select  or .



Setting the Date/Time

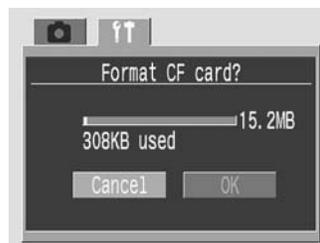
- 1 Display the Setup menu (p. 63).
- 2 Use the  and  buttons to select [Date/Time]. Press the SET button.
- 3 Set the date and time.
 - The factory default date style may differ between regions.



- Use the  and  buttons to select a field, such as the year, month, day, hour, minute and date format.
 - Use the  and  buttons to adjust the value of each field.
- 4 Press the SET button.
 - Press the MENU button to return to the  Setup menu without changing the date/time setting.

Formatting a CF Card

- 1 Display the Setup menu (p. 63).
- 2 Use the  and  buttons to select [Format]. Press the SET button.
- 3 Use the  and  buttons to select [OK]. Press the SET button.



* This example shows a FC-16M CF card.

- Select Cancel to return to the  Setup menu without formatting the CF card.

- Please note that formatting a CF card erases all the data on the card, including protected images, sound files and print settings.

- When a non-Canon brand CF card is malfunctioning, reformatting it may solve the problem.

Setting the Language

- 1 Display the Setup menu (p. 63).
- 2 Use the  and  buttons to select [Language]. Press the SET button.
 - The Language menu may appear differently on cameras in some regions.
- 3 Use the  and  buttons to select a language. Press the SET button.
 - Pressing the MENU button instead cancels the operation, restoring the main  Setup menu without changing the language settings.

Shortcut

The language can also be changed in play mode by holding the SET button and pressing the /JUMP button.

Appendices

This section contains information on how to care for and maintain your PowerShot S10 or PowerShot S20 camera. Troubleshooting, error and function lists are included.

Replacing the Button Battery

If the date/time settings menu displays when the camera power is turned on, the button battery has lost its charge and the date/time setting has been lost. Purchase a generic CR2016 lithium button battery and replace it using the following procedures.

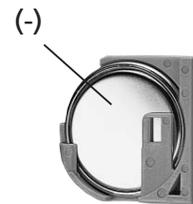
- A button battery is installed in the camera when it is shipped from the factory.

- 1 Turn the Mode Dial to **OFF**.
- 2 Pull the button battery holder in the direction of the arrow to remove it.



Slip your fingernail into the slit and pull out.

- 3 Pop the old button battery out.
- 4 Insert a new button battery with the negative electrode (-) facing up.



- 5 Replace the button battery holder. Please reset the date and time if the date/time setting menu displays after you have replaced the button battery. (p. 65)

- The date/time settings menu will continue to appear at start-up unless it is reset.

Camera Maintenance

Follow the procedures below to clean the camera body, lens, optical viewfinder and LCD monitor when they become dirty.

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

Camera Body

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

Lens

After you have used a generic lens blower brush to remove dust and dirt, use a soft cloth with extreme caution to lightly wipe the lens to remove remaining dirt.

- Never use cleansers containing organic solvents on the camera body or lens. If you cannot remove a stain, contact your camera retailer or the closest Canon Customer Support Help Desk.

Optical Viewfinder

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

LCD Monitor

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

- Never rub or press strongly on the LCD monitor. Rubbing or pressing firmly on it may lead to damage or other problems.

Troubleshooting

Problem	Cause(s)	Solution(s)
Camera will not operate	Battery cover is open	<ul style="list-style-type: none"> Ensure that the battery cover is firmly closed.
	2CR5 lithium battery inserted upside down	<ul style="list-style-type: none"> Insert the 2CR5 lithium battery so that its terminals touch the bottom of the battery chamber.
	Insufficient battery voltage (Display panel flashes "Lb")	<ul style="list-style-type: none"> Insert a fully charged battery pack. Replace the battery. Use an approved AC power source.
	Incorrect battery type	<ul style="list-style-type: none"> Use a fully charged Battery Pack NB-5H or a 2CR5 lithium battery.
	Poor contact between battery and camera terminals	<ul style="list-style-type: none"> Wipe the battery terminals with a clean, dry cloth.
Camera will not record	Mode Dial is set to the OFF ,  ,  (Play) or  (PC) position	<ul style="list-style-type: none"> Set the Mode Dial to the  (Auto),  M (Manual), IMAGE or  (Stitch Assist) position.
	Flash is charging ( icon flashes)	<ul style="list-style-type: none"> Wait until the flash charges, the  icon stops flashing and the indicator shines a steady red to press the shutter button.

Problem	Cause(s)	Solution(s)
Camera will not record	CF card slot cover is open (Display panel flashes "CF")	<ul style="list-style-type: none"> • Insert CF card until the ejector button is fully extended and close the slot cover.
	CF card full (Display panel shows "0", continuous beep sounds when shutter button pressed halfway)	<ul style="list-style-type: none"> • Replace the CF card. • Download and then erase all or some of the card's images to create space.
	CF card not formatted correctly (Display panel flashes "CF")	<ul style="list-style-type: none"> • Reformat the CF card. • If reformatting does not work, the logic circuits of the CF card may be faulty or damaged. Please consult the nearest Canon Customer Support Help Desk.
Lens will not retract	CF card slot cover opened immediately after Mode Dial turned to OFF	<ul style="list-style-type: none"> • After closing the CF card slot cover, try turning the Mode Dial to Off again.
	Battery cover opened immediately after Mode Dial turned to OFF	<ul style="list-style-type: none"> • After closing the battery cover, try turning the Mode Dial to Off again.
Battery consumed quickly	Battery charge reduced by low surrounding temperature	<ul style="list-style-type: none"> • Place the battery in a warm place like your pocket prior to recording in places that are relatively cold. [See Lithium Batteries, p. 18]

Problem	Cause(s)	Solution(s)
Battery consumed quickly	Battery pack capacity reduced because of disuse for an extended period of time, such as one year	<ul style="list-style-type: none"> Fully charge and discharge the battery pack several times to restore its capacity.
	Battery pack life exceeded	<ul style="list-style-type: none"> This battery pack can no longer be used. Replace it with a new one.
Battery pack will not charge	Poor connection between battery pack and compact power adapter	<ul style="list-style-type: none"> Seat the battery pack more firmly in the charger. Check the AC power cord connection between the electrical outlet and the charger.
	Camera is running off the compact power adapter	<ul style="list-style-type: none"> The battery pack won't charge when the camera is running off the compact power adapter. Turn the Mode Dial to OFF.
Image is blurred, out of focus, or image not as intended	Camera moved	<ul style="list-style-type: none"> Be careful not to move the camera when pressing the shutter button.
	Subject is out of focal range	<ul style="list-style-type: none"> Ensure that there is at least 18 in. (46 cm) between the lens tip and the subject in normal mode with the PowerShot S10. The PowerShot S20 requires 26 in. (66 cm). Use the macro mode to shoot close-ups between 4.7 and 18 in. (12 and 46 cm) with the PowerShot S10. The PowerShot S20 range is 4.7 in. to 26 in. (12 to 66 cm).
	AF auxiliary light emitter is obscured, hampering autofocus function	<ul style="list-style-type: none"> Be careful not to block the AF auxiliary light emitter with your fingers or other items.

Problem	Cause(s)	Solution(s)
Image is blurred	Camera is set to the slow shutter mode	<ul style="list-style-type: none"> • Set the camera to a mode other than Slow Shutter
Subject is too dark	Insufficient light for recording	<ul style="list-style-type: none"> • Change the flash setting to Flash On.
	Subject is too dark in comparison with surroundings	<ul style="list-style-type: none"> • Adjust the exposure compensation to a positive (+) setting. • Use the spot exposure metering method or the AE lock function to record.
	White balance setting is inappropriate	<ul style="list-style-type: none"> • Reset the white balance mode.
	Subject is too far away for flash to reach	<ul style="list-style-type: none"> • Remain within the range of 6.7 in. to 10.8 ft. (wide) or 7.5 ft. (telephoto) [17 cm to 3.3 m (wide) or 2.3 m (telephoto)] from the subject for flash photography.
Subject is too bright	Subject is too close	<ul style="list-style-type: none"> • Remain within the range of 6.7 in. to 10.8 ft. (wide) or 7.5 ft. (telephoto) [17 cm to 3.3 m (wide) or 2.3 m (telephoto)] from the subject for flash photography.
	Subject is too bright compared to surroundings	<ul style="list-style-type: none"> • Adjust the exposure compensation to a negative (-) setting. • Use the spot exposure metering method or the AE lock function to record.
	Light is shining directly on or reflected onto camera from the subject	<ul style="list-style-type: none"> • Change the shooting angle.
	Flash mode is set to Flash On	<ul style="list-style-type: none"> • Set the flash to Auto Flash or Flash Off.
Flash will not fire	Flash mode is set to Flash Off	<ul style="list-style-type: none"> • Set the flash to Auto Flash or Flash On.

List of Message Codes

The following codes may appear in the display panel.

Pb:	Image playback.
PC:	Camera connected in PC mode to a computer.
 ⚡:	2CR5 lithium battery or Battery Pack NB-5H charge is spent. Please replace the battery. (This message may appear at low temperatures and other conditions even for a new 2CR5 lithium battery. See Lithium Batteries, p. 18)
Lb:	Low battery charge, camera will not operate. Replace or charge battery immediately. Could also indicate that the battery cover is open. Close the cover securely.
CF:	No CF card inserted or CF card slot cover is open. Could also indicate a CF card error.
Exx:	(xx: number) Camera malfunction. Set Mode Dial to Off, then reset it to a recording or play mode. Problem exists if error code reappears. Note the number and contact Canon Customer Support Help Desk. If an error code displays directly after taking a picture, the shot may not have been recorded. Check image in play mode.

List of Messages

The following messages may appear in the display panel.

Busy...:	Image is recording on CF card or CF card is being read in play mode.
No CF card:	You attempted to view or shoot an image without a CF card installed.
Cannot Record!:	You attempted to shoot an image without a CF card installed.
CF card error!:	CF card has experienced an anomaly.
CF card full!:	CF card is too full to accommodate more images or print settings.
Naming error!:	The file could not be created because there is a file with the same name as the directory that the camera is attempting to create, or the highest possible file number has already been reached. Save all the images you wish to retain onto the computer, then reformat the CF card with the computer. Please note that all the existing images and data will be erased by formatting.
No Image:	No images recorded on CF card.
Image too large:	You attempted to view an image larger than 3200 x 2400 pixels.

Incompatible JPEG format:	You attempted to view an incompatible JPEG file.
Corrupted Data:	You attempted to view an image with corrupted data
Cannot magnify!:	You attempted to magnify an image that was photographed with another camera, recorded in a different format, or edited on a computer.
Cannot rotate:	You attempted to rotate an image that was photographed with another camera, recorded in a different format, or edited on a computer.
Unidentified Image:	You attempted to view an image that was recorded in a special format (proprietary format used by the camera of another manufacturer, etc.).
Protected!:	You attempted to erase a protected image.
Too many orders.:	Too many print settings or slide show image selections. Cannot process any more .
Cannot complete!:	Failed to save print setting or slide show image selection.
Cannot edit!:	Cannot change slide show because image selected for slide show has been edited on another computer.

List of Functions

The functions available in each recording mode are listed below.

Recording Functions

The shaded areas indicate functions that reset to the default setting when the Mode Dial is turned or the camera is powered down.

Recording Mode	Digital Zoom	Flash				Recording Method			Macro
		Auto	Red-Eye Reduction	On	Off	Single	Continuous	Self-Timer	
Auto	•	•*	–	–	•	•*	–	•	•
Manual	•	•*	•	•	•	•*	•	•	•
IMAGE Image	•	• ⁽¹⁾	• ⁽²⁾	•	• ⁽³⁾	•*	•	•	• ⁽⁴⁾
Stitch Assist	–	–	–	◇	◇*	•*	–	•	•

Image Quality Settings

Recording Mode	Exposure Compensation	White Balance	Compression			Resolution			Gain	Contrast	Sharpness	AE Metering Method
						L	M	S				
Auto	–	–	–	•	–	•	–	–	–	–	–	
Manual	•	•	•	•*	•	•*	•	•	•	•	•	
IMAGE Image	•	• ⁽⁵⁾	•	•*	•	•*	•	•	–	–	–	
Stitch Assist	◇	◇	•	•*	•	◇*	◇	◇	–	–	–	

*: Default Value ◇: Selectable for 1st Frame Only.

(1) Default values for Fast Shutter and Black and White modes.

(2) Default value for Night Scene mode.

(3) Default values for Landscape and Slow Shutter modes.

(4) Macro mode cannot be activated in the Landscape or Night Scene mode.

(5) White balance cannot be set in the Black and White mode.

Specifications

	PowerShot S10	PowerShot S20
Lens:	6.3 - 12.6 mm (35 mm film equivalent: 35 to 70 mm) / F2.8 (wide angle) - F4.0 (telephoto)	6.5 - 13.0 mm (35 mm film equivalent: 32 to 64 mm) / F2.9 (wide angle) - F4.0 (telephoto)
Digital Teleconverter:	x2 / x4	
Image Sensor:	Approx. 2.11 million-pixel (total), 1/2-inch charge coupled device (effective pixels: approx. 2.02 million)	Approx. 3.34 million-pixel (total), 1/1.8-inch charge coupled device (effective pixels: approx. 3.24 million)
Focusing Range:	Standard : 18 in. (46 cm) to infinity ; Macro : 4.7 - 18 in. (12 - 46 cm)	Standard : 26 in. (66 cm) to infinity ; Macro : 4.7 - 26 in. (12 - 66 cm)
Viewfinder:	Real-image optical view finder / 1.8-inch low-temperature polycrystalline silicon TFT LCD	
Focusing Method:	Through the lens autofocus (TTL AF)	
Metering Method:	Center weighted metering / Spot metering	
Auto Exposure Method:	Program (AE lock available)	
White Balance Control:	Through the lens (TTL) auto/manual	
Shutter:	Mechanical + electronic	
Shutter Speed:	2 to 1/1,000 sec. (2-sec. for Slow Shutter or Night Scene mode)	
Flash:	Built-in (Auto, On, Off, Red-Eye Reduction)	
Flash Range:	6.7 in. - 10.8 ft. (17 cm - 3.3 m) (wide angle), 6.7 in. - 7.5 ft. (17 cm - 2.3 m) (telephoto)	

	PowerShot S10	PowerShot S20
Recording Media:	CompactFlash™ card (Type I or Type II)	
Image Format:	Design rule for Camera File System (Images / Thumbnails : JPEG)	
Compression:	NORMAL / FINE / SUPER FINE	
Sensitivity:	Equivalent to ISO 100 / 200 / 400 (ISO 200 / 400 for gain up setting)	
Resolution:	1,600 x 1,200 pixels (Large) 1,280 x 960 pixels (Middle) 800 x 600 pixels (Small)	2,048 x 1,536 pixels (Large) 1,024 x 768 pixels (Middle) 640 x 480 pixels (Small)
Camera Modes:	AUTO / MANUAL / IMAGE / STITCH ASSIST / PLAY / PC	
Interface:	USB / RS-232C / CF Slot (Type I, II) / Video Out	
Power Supply:	2CR5 lithium battery Nickel-hydride Battery Pack NB-5H Compact Power Adapter CA-PS100 / 100E (with DC Coupler DR-100A) CR2016 lithium battery for date/clock backup	
Operating Temperatures:	32° - 104° F (0° - 40° C)	
Operating Humidity:	10 - 90%	
Dimensions:	4.1 x 2.7 x 1.3 inches (105.4 x 69.4 x 33.8 mm) excluding protrusion	
Weight:	Approx. 9.5 oz. (270 g) excluding battery and CF card	

Compact Power Adaptor CA-PS100/100E (sold separately in some regions)

Input Voltage:	AC 100 to 240 V (50/60 Hz)
Rated Output:	Charging: 7.2 V, 0.65 A Camera power supply: 6.5 V, 1.5 A
Input Rating:	Charging: 23 to 26 VA (100 to 240 V) Camera power supply: 18 to 20 VA (100 to 240 V)
Operating Temperature:	32° to 104° F (0° to 40° C)
Dimensions:	3.0 x 4.0 x 1.5 in. (75 x 102 x 39 mm)
Weight:	Approx. 6.3 oz. (180 g)

Battery Pack NB-5H (sold separately in some regions)

Type:	Nickel-hydride cells
Rated Voltage:	6 V
Rated Amperage:	650 mAH
Life-span:	Approximately 300 charges cycles
Operating Temperatures:	32° to 104° F (0° to 40° C)
Dimensions:	1.3 x 0.9 x 1.9 in. (34 x 22 x 49 mm)
Weight:	Approx. 2.5 oz. (70 g)

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

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Canon Customer Support

Canon Inc.

30-2 Shimomaruko 3-chome, Ohta-ku, Tokyo
146-8501, Japan

NORTH AMERICA

Canon U.S.A., Inc.

Canon Customer Care Center
Phone (US): 1-800-828-4040
(Available Mon. - Fri., 9 AM to 8 PM Eastern Time)

Canon Canada Inc.

Phone (Canada): 1-800-OK-CANON (1-800-652-2666)
(24 hours/day, 7 days/week)

EUROPE

Europe, Africa & Middle East

Canon Europa N.V.

PO Box 2262, 1180 EG Amstelveen, The Netherlands

Canon (UK) Ltd.

Helpdesk
Tel No.: 08705 143 723 (Calls may be recorded.)
Fax No.: 08705 143 340 BBS No.: 08705 143 350

Canon France S.A.

Hotline : 01.41.99.70.70
Tél : 01.41.99.77.77 Télécopie : 01.41.99.79.51

Canon Photo Vidéo France S.A.

Hotline : 01.49.04.01.00 Télécopie : 01.49.04.01.01

Canon Deutschland GmbH

Canon-Hotline-Service
Customer-Support: (02151) 349-555
Telefax: (02151) 349-588
Info-Desk Tel: (02151) 349-566
Info-Desk Fax : (02151) 349-599
Mailbox : (02151) 349-577

Canon Euro-Photo GmbH

Customer-Support: (02154) 495-610
Info-Desk: (02154) 495-444
Fax: (02154) 495-333

Canon Italia S.p.A.

Pronto Canon : 02 8249 2000 BBS : 02 8249 2099

Canon Belgium N.V. / S.A.

Helpdesk: 0900-10627
Tel.: (02) 722.04.11 Fax: (02) 721.32.74

Canon Luxembourg S.A.

Tel.: (352) 48 47 961 Fax: (352) 48 47 96232

Canon Nederland N.V.

Helpdesk: 023 - 5 681 681
Tel.: 023 - 5 670 123 Fax: 023 - 5 670 124

Canon Danmark A/S

Hotline: 44 88 26 66

Canon España S.A.

Help Desk: 906 301 255
Tel: (91) 538 45 00 Fax: (91) 411 41 76
E-mail: helpdesk@btlink.net

Canon Norge as

Tlf. 22 62 93 21 Faks: 22 62 06 15
E-mail: helpdesk@canon.no

Finland

Canon OY

Puhelin: 010 54420 Fax: 010 544 4571
Help Desk: 0600 0 22606 (14,80 mk/min+pvm)
Help Desk: 0600 0 22666 (enint. 40mk/puhelu+pvm)
Sähköposti: helpdesk@canon.fi

Canon (Schweiz) AG

Tel. 01-835-6161, Fax 01-835-6860
Hotline 0900 57 55 20

Canon Svenska AB

Stensättravägen 13, S-127 88, Skärholmen, Sweden

Austria

Canon GmbH

Zetschegasse 11, 1232 Wien, Austria
Tel: 01 680 88-0
Fax: 01 680 88-222

OCEANIA

Canon Australia Pty. Ltd.

Info-Line: (02) 9805 2864

Canon New Zealand Ltd.

Info-Line: 0900-522666

ASIA

Canon Singapore Pte. Ltd.

79 Anson Road, #09-01 / 06, Singapore 079906

Phone: (65) 532 4400 Fax: (65) 221 7577

Canon Hongkong Co., Ltd.

9/F, The Hong Kong Club Building, 3A Chater Road,
Central, Hong Kong

Phone: 852-2739-0802 Fax: 852-2369-7701

Canon Marketing Services

No.1 Jalan Kilang Timor, #09-00, Pacific Tech Centre,
Singapore 159303

Phone: (65) 799 8888 Fax: (65) 273 3317

Canon Marketing (Malaysia) Sdn. Bhd.

Wisma General Lumber, Block D, Peremba Square,
Saujana Resort, Section U2, 40150,

Shah Alam, Selangor Darul Ehsan, Malaysia

Phone: (60) 3 744 6000, (60) 3 745 0055

Fax: (60) 3 745 0505

Canon Marketing (Thailand) Co., Ltd.

10th Floor, Bangkok City Tower,

179/34-45 South Sathorn Road,

Bangkok 10120, Thailand

Phone: (662) 344 9999 Fax: (662) 344 9910

Canon Marketing (Hongkong) Co., Ltd.

10/F, Mirror Tower, 61 Mody Road, Tsimshatsui East
Kowloon HongKong

Phone: 852-2170-2828 Fax: 852-2723-9684

Canon