Canon

PowerShot A410



Before Using the Camera

Shooting

Playback/Erasing

Print/Transfer Settings

Troubleshooting

List of Messages

Appendix

Advanced Camera User Guide

This guide explains camera features and procedures in detail.



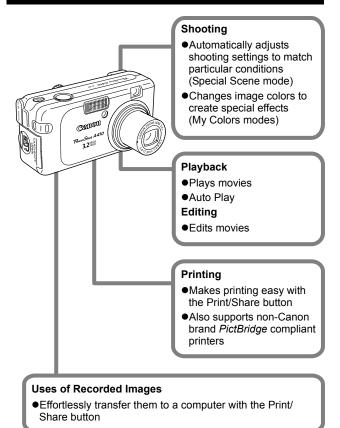








Main Features



Conventions Used in this Guide

Icons appearing below titles indicate the modes in which the procedure can be used. In the example below, the mode dial can be used in the following shooting modes.

- **M** (Manual) **SCN** (Special Scene)
- **△** (Manual) **♦** (Super Macro) **♦** (My Colors)
- * Black square icons are modes in the FUNC. menu.

Switching between Focusing Modes

Shooting Mode MM W SCN

• See Functions Available in Each Shooting Mode (p. 106).

In this guide, the *Basic Camera User Guide* is referred to as the *Basic Guide*, and the *Advanced Camera User Guide* is referred to as the *Advanced Guide*.



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



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

You can use SD* memory cards and MultiMediaCards with this camera. These cards are collectively called memory cards in this guide.

Use of genuine Canon accessories is recommended.

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

^{*} SD stands for Secure Digital, a copyright protection system.

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Handling Precautions

Please Read

Test Shots

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

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

Warning Against Copyright Infringement

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

Warranty Limitations

For information on your camera's warranty, please refer to the Canon European Warranty System (EWS) Booklet supplied with your camera.

For Canon Customer Support contacts, please see rear of the European Warranty System (EWS) Booklet.

Camera Body Temperature

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

About the LCD Monitor

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

Language Setting

Please see the Basic Guide (p. 3) to change the language setting.

Safety Precautions

- Before using the camera, please ensure that you read and understand the safety precautions described below. Always ensure that the camera is operated correctly.
- •The safety precautions noted on the following pages are intended to instruct you in the safe and correct operation of the camera and its accessories to prevent injuries or damage to yourself, other persons and equipment.
- Equipment refers to the camera, battery charger or separately sold compact power adapter.
- Battery refers to the battery pack.

A Warnings

Equipment

- Do not aim the camera directly into the sun or at other intense light sources that could damage your eyesight.
- Store this equipment out of the reach of children and infants.
 Accidental damage by a child could result in serious injury.
- Wrist strap: Placement of the strap around the child's neck could result in asphyxiation.
- Memory card: It may be swallowed accidentally. If this occurs, contact a doctor immediately.
- Do not attempt to disassemble or alter any part of the equipment that is not expressly described in this guide.
- To avoid the risk of high-voltage electrical shock, do not touch the flash portion of the camera if it has been damaged.
- Stop operating the equipment immediately if it emits smoke or noxious fumes.
- Do not allow the equipment to come into contact with, or become immersed in, water or other liquids. If the exterior comes into contact with liquids or salt air, wipe it dry with a soft, absorbent cloth.

Continued use of the equipment may result in fire or electrical shock. Immediately turn the camera power off and remove the camera battery or unplug the power cord from the power outlet. Please consult your camera distributor or the closest Canon Customer Support Help Desk.

- Do not use substances containing alcohol, benzene, thinners or other flammable substances to clean or maintain the equipment.
- Do not cut, damage, alter or place heavy items on the power cord.
- Use only recommended power accessories.
- Remove the power cord on a regular periodic basis and wipe away the dust and dirt that collects on the plug, the exterior of the power outlet and the surrounding area.
- Do not handle the power cord if your hands are wet. Continued use of the equipment may result in fire or electrical shock.

Battery

- Do not place the battery near a heat source or expose it to direct flame or heat.
- The battery should not be immersed in water or sea water.
- Do not attempt to disassemble, alter or apply heat to the battery.
- Avoid dropping or subjecting the batteries to severe impacts that could damage the casing.
- Use only recommended batteries and accessories.

Use of batteries not expressly recommended for this equipment may cause explosions or leaks, resulting in fire, injury and damage to the surroundings. In the event that a battery leaks and the eyes, mouth, skin or clothing contact these substances, immediately flush with water and seek medical assistance.

- Disconnect the battery charger and compact power adapter from both the camera and the power outlet after recharging or when they are not in use to avoid fire and other hazards.
- Do not place anything, such as tablecloths, carpets, bedding or cushions, on top of the battery charger while it is charging.

Continued use over a long period may cause the units to overheat and distort, resulting in fire.

- Please use Canon AA-size NiMH batteries and charger recommended for use with these batteries.
- The compact power adapter are designed for exclusive use with your camera. Do not use it with other products or batteries.

There is a risk of overheating and distortion which could result in fire or electrical shock.

 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.

Others

 Do not trigger the flash in close proximity to human or animal eyes. Exposure to the intense light produced by the flash may damage eyesight.

In particular, remain at least one meter (39 inches) away from infants when using the flash.

A Cautions

Equipment

- Be careful not to bang the camera or subject it to strong impacts or shocks that could lead to injury or damage the equipment when wearing or holding it by the strap.
- Do not store the equipment in humid or dusty areas.
- Do not allow metal objects (such as pins or keys) or dirt to contact the charger terminals or plug.

Such conditions could lead to fire, electrical shock or other damage.

- 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.
- Ensure that the battery charger is plugged into a power outlet of the specified rating, not over the specified rating.
 Do not use if the power cord or plug are damaged, or if not fully plugged into the outlet.
- Do not use in locations with poor ventilation.

The above-mentioned can cause leakage, overheating or explosion, resulting in fire, burns or other injuries. High temperatures may also cause deformation of the casing.

 When not using the camera for extended periods of time, remove the battery from the camera or battery charger and store the equipment in a safe place.

Storing the camera for extended periods with batteries installed will cause battery leakage and damage the camera.

Flash

- Do not operate the flash with dirt, dust or other items stuck to the surface of the flash.
- Be careful not to cover the flash with your fingers or clothing when shooting.

The flash may be damaged and emit smoke or noise. The resulting heat build-up could damage the flash.

 Do not touch the surface of the flash after taking several pictures in rapid succession.

Doing so could result in burns.

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

 When moving the equipment rapidly between hot and cold temperatures, you can avoid condensation by placing the equipment in an airtight, resealable plastic bag and letting it adjust to temperature changes slowly before removing it from the bag.

Moving the equipment rapidly between hot and cold temperatures may cause condensation (water droplets) to form on its external and internal surfaces.

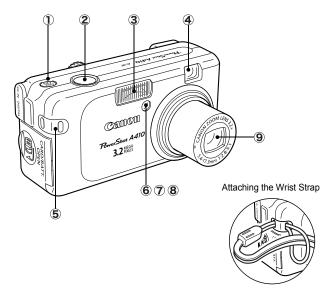
If Condensation Forms Inside the Camera

Stop using the camera immediately.

Continued use may damage the equipment. Remove the memory card and battery or compact power adapter from the camera and wait until the moisture evaporates completely before resuming use.

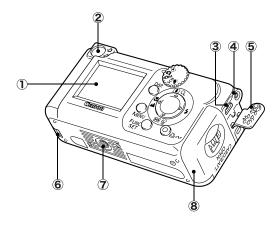
Before Using the Camera—The Components Guide

Front View



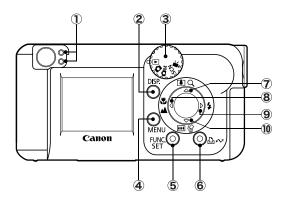
- 1 Power Button (Basic Guide p. 2)
- 2 Shutter Button (Basic Guide p. 4)
- 3 Flash (Basic Guide p. 8)
- 4 Viewfinder Window (p. 19)
- **5** Wrist Strap Mount
- 6 AF-assist Beam (p. 24)
- Red-Eye Reduction Lamp (Basic Guide p. 8)
- 8 Self-Timer Lamp (p. 35)
- 9 Lens

Back View



- 1 LCD Monitor (p. 15)
- 2 Viewfinder (p. 19)
- 3 DIGITAL Terminal (Basic Guide p. 17)
- 4 DC Coupler Terminal Cover (p. 88)
- 5 Terminal Cover
- 6 Coin Battery Holder (p. 87)
- Tripod Socket
- 8 Memory Card Slot/Battery Cover (Basic Guide p. 1)

Operation Panel



- 1 Indicator (p. 19)
- 2 DISP. (Display) Button (p. 15)
- 3 Mode Dial (Basic Guide p. 5)
- 4 MENU Button (p. 23)
- (5) FUNC./SET (Function/Set) Button (p. 22)
- 6 △ (Print/Share) Button (Basic Guide p. 12)
- (Telephoto) (when shooting)/ Q (Magnify) (when playing)/ ▲ button (Basic Guide p. 7/pp. 32, 56)
- (Macro)

 (Infinity)

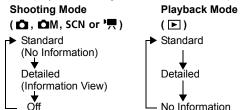
 √ button (Basic Guide p. 9)
- 9 \$ (Flash)/ ▶ button (Basic Guide p. 8)
- (Wide Angle) (when shooting)/ ☆ (Single Image Erase) (when playing)/ ▼ button (p. 32, Basic Guide p. 7)

Before Using the Camera—Basic Operations

Using the LCD Monitor

Press the DISP button.

•The display mode changes as follows with each press.



• In the shooting modes, the shooting information displays for approximately 6 sec. when changing modes, or when the ♣ or ♣ button is pressed, regardless of the selected display mode.



- The LCD monitor on or off setting is remembered even after the camera power is turned off.
- The LCD monitor will not switch to the detailed display in the index playback mode (p. 57).

LCD Monitor Brightness

The brightness of the LCD monitor can be adjusted to better suit the shooting conditions.

You can change the brightness of the LCD monitor using the Set up menu (p. 25).

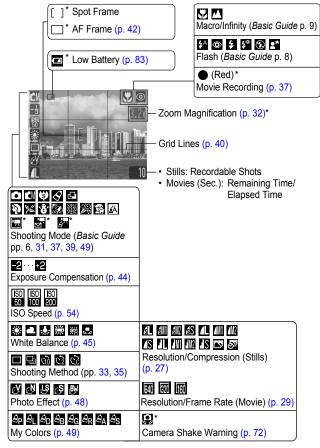
Night Display

When shooting in dark conditions, the camera automatically brightens the LCD monitor to suit the brightness of the subject*, making it easier to frame the subject.

* Noise will appear, and the movements of the subject will appear irregular in the LCD monitor. The recorded image will not be affected. The brightness of the image displayed in the monitor, and the brightness of the actual image recorded will be different.

Information Displayed on the LCD Monitor

Shooting mode



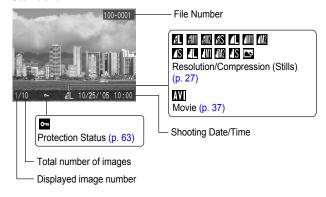
^{*} Appears even if the LCD monitor is set to Standard (No Information)



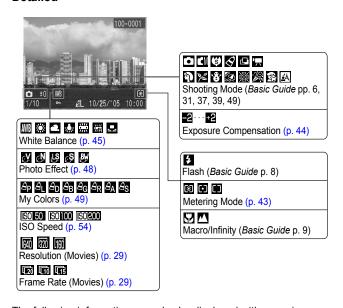
- During shooting, you can display a grid to help you determine if your camera is level (p. 40).

Playback Mode

Standard



Detailed



The following information may also be displayed with some images.

} ?	The file format is not recognized.
A	JPEG image not conforming to Design rule for Camera File System Standards
RAW	RAW image
?	Unrecognized data type



Information for images shot on other cameras may not display correctly.

Using the Viewfinder

The viewfinder can be used to conserve power by turning the LCD monitor off (p. 15) while shooting.



Indicators

The indicators light or blink when the power button or the shutter button is used.



Never do the following while an indicator is lit. These actions may corrupt image data.

- Shake or jolt the camera
- Shut off the power, or open the memory card slot/battery cover

Upper Indicator

Green: Ready to shoot

Blinking Green: Image recording/reading/erasing/transferring

(when connected to a computer)

Orange: Ready to shoot (flash on)

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

Flash is charging

Lower Indicator

Yellow: Macro mode/infinity mode

Blinking Yellow: Focusing difficulty (camera beeps once)

Power Saving Function

This camera is equipped with a power saving function. The power will shut off in the following circumstances. Press the power button again to restore power.

Shooting Mode	Powers down approximately 3 minutes after the last control is accessed on the camera. The LCD monitor automatically turns off 1 minute* after the last control is accessed even if [Auto Power Down] is set to [Off]. Press any button other than the power button or change the camera orientation to turn the LCD monitor back on.
Playback Mode	Powers down approximately 5 minutes after the last
Connected to a Printer	control is accessed on the camera.

^{*} Default Setting. This time can be changed (p. 25).



- The power saving function will not activate during Auto Play or while the camera is connected to a computer.
- The power saving function settings can be changed (p. 25).

Formatting Memory Cards

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



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

See Menus and Settings (p. 23).



Format memory card?

4.0MB used

Low Level Format

[∰ Format

Cancel

- 2 Select [OK] and press the FUNC./SET button.
 - To perform a low level format, use the ▲ button to select [Low Level Format] and the ◀ or ▶ button to add a check mark.
 - •If [Low Level Format] is selected, you can cancel formatting partway by pressing the FUNC./ SET button. You can still use the memory card without problem even if formatting was halted partway, but the data is erased completely.



Low Level Format

You should select the [Low Level Format] option if you suspect the read/write speed of a memory card has dropped. A low level format may require 2 to 3 minutes with some memory cards.

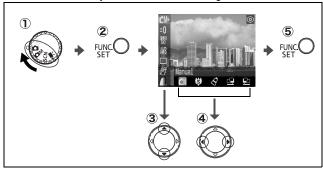
Menus and Settings

Menus are used to set the shooting and playback settings as well as such camera settings as the date/time and electronic beep. The following menus are available.

- ●FUNC. Menu
- •Rec., Play and Set up Menus

FUNC. Menu

This menu sets many of the common shooting functions.



- 1) Set the camera to the shooting mode.
- 2 Press the FUNC./SET button.
- ③ Use the ▲ or ▼ button to select a menu item.

Some items may not be selectable in some shooting modes.

④ Use the ◀ or ▶ button to select an option for the menu item.

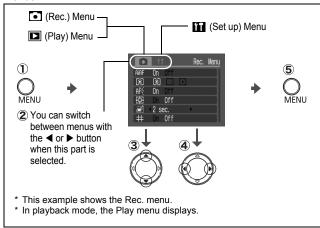
You can select further options with the **MENU** button for some options.

After selecting an option, you can press the shutter button to shoot immediately. After shooting, this menu will appear again, allowing you to adjust the settings easily.

5 Press the FUNC./SET button.

Rec., Play and Set up Menus

Convenient settings for shooting or playback can be set with these menus.



- 1 Press the MENU button.
- ② Use the ◀ or ▶ button to switch between menus.
- ③ Use the ▲ or ▼ button to select menu items. Some items may not be selectable in some shooting modes.
- ④ Use the ◀ or ▶ button to select an option.
 Menu items followed by an ellipsis (...) can only be set after pressing the FUNC./SET button to display the next menu.
 Press the FUNC./SET button again to confirm the setting.
- 5 Press the MENU button.

Menu List

FUNC. Menu

The icons for the default settings are shown here.

		1116	5 100113
GW.	Manual Mode		
		Manual	p. 31
	(\$)	Super Macro	p. 31
	\mathcal{S}	My Colors	p. 49
	Stitch Assist Left to Right		p. 39
]	Stitch Assist Right to Left	p. 59
ক	Spe	p. 30	
	Mov	p. 37	
±0	Exp	p. 44	
ISO 50	ISO Speed p		
AWB	White Balance p. 45		

	Shooting Method		
		Single	p. 33
	司	Continuous Shooting	p. 55
	B	10-sec. Self-Timer	
	\mathcal{C}^2	2-sec. Self-Timer	p. 35
	${\mathcal G}$	Custom Timer	
Git	Photo Effect		p. 48
Ø	My Colors		p. 49
	Res	p. 27	
640	Resolution/Frame Rate (Movie) p. 29		

Rec. Menu

*Default setting

Menu Item	Options	Reference Page
AiAF	On*/Off	p. 41
Metering Mode	Evaluative,Center-Weighted Average,Spot	p. 35
AF-assist Beam	On*/Off	-
Digital Zoom	On/Off* (On in standard movie mode.)	p. 32
Review	Off/2*-10 seconds/Hold	Basic p. 5
Save Original	On/Off*	p. 51
Grid Lines	On/Off*	p. 40
	Off*/Date/Date & Time	p. 34

Play Menu

Menu Item	Reference Page
о _{тт} Protect	p. 63
Rotate	p. 61
Erase All	p. 64
Auto Play	p. 62
Print Order	p. 65
Transfer Order	p. 69

Set up Menu

Menu Item	Options	Reference Page
⊄ X Mute	On/Off*	Set to [On] to silence the start-up, operation, self-timer and shutter sounds all at once. However, warnings still sound even when the mute is set to [On] (Basic Guide p. 2).
LCD Brightness	-7 to 0* to +7	Use the ◀ or ▶ button to adjust the brightness. If you press the ▲ or ▼ button, the display returns to the Set up menu. You can check the brightness in the LCD monitor while you are adjusting the setting.
Bower Saving		p. 20
Auto Power Down	On*/Off	Sets whether or not the camera automatically powers down after a set period of time elapses without the camera being operated.
Display Off	10 sec./20 sec./ 30 sec./1 min.*/ 2 min./3min.	Sets the length of time before the LCD monitor turns off when no camera operation is performed.
Date/Time		Basic Guide (p. 2)
Format		p. 21
File No. Reset	On/Off*	p. 55
Language		Basic Guide (p. 3)
All Reset		p. 26

Resetting Settings to Their Default Values

See Menus and Settings (p. 22).



2 Select [OK] and press the FUNC./SET button.





- Settings cannot be reset when the camera is connected to a computer or to a printer.
- The following cannot be reset.
 - Shooting mode
 - The (□ (Date/Time) and □ (Language) options in the □ (Set up) menu (p. 25)
 - White balance data recorded with the custom white balance function (p. 46)
 - Colors specified in the (Color Accent) (p. 52) or (Color Swap) (p. 53) modes of My Colors.

Shooting

Changing the Resolution and Compression (Still Images)

1 FUNC. Menu → (Resolution/Compression).

See Menus and Settings (p. 22).

- * Default setting.
- Use the ◀ or ▶ button to select resolution settings.



2 Press the Menu button.

 Use the ◀ or ▶ button to select compression and press the FUNC./SET button.





In Postcard Print mode, you cannot modify the compression rate.

Approximate Values for Resolutions

Resolution			Purpose
L (Large)	2048 x 1536 pixels	High	Print up to A4-size prints* 210 x 297 mm (8.3 x 11.7 in.) Print up to Letter-size prints* 216 x 279 mm (8.5 x 11 in.)
M1 (Medium 1)	1600 x 1200 pixels		Print postcard-size prints 148 x 100 mm (5.8 x 3.9 in.) Print L-size prints 119 x 89 mm (4.7 x 3.5 in.)
M2 (Medium 2)	1024 x 768 pixels		Print credit card-size prints
s (Small)	640 x 480 pixels	↓ Low	Send images as e-mail attachments Shoot more images
(Postcard Date Imprint Mode)	1600 x 1200 pixels	When printing to postcards (p. 34). The compression rate is set to (Fine).	

^{*} Paper sizes vary according to region.

Approximate Values for Compression Settings

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



- See Image Data Sizes (Estimated) (p. 100).
 See Memory Cards and Estimated Capacities (p. 99).

Changing Resolutions and Frame Rates

Shooting Mode



You can change the resolution/frame rate when the movie shooting mode is set to (Standard) or (My Colors).

FUNC. Menu → M * (Resolution/Frame Rate).

See Menus and Settings (p. 22). *Default setting.

•Use the ◀ or ▶ button to select a resolution/frame rate and press the FUNC./SET button.



Resolutions and Frame Rates

	Resolution	Frame Rate
💢 Standard	640 x 480 pixels	10 frames/sec.
₫~ My Colors	320 x 240 pixels	20 frames/sec.
Compact	160 x 120 pixels	15 frames/sec.

^{*} Frame rates indicate the number of frames recorded or played back each second. The higher the frame rate, the smoother the appearance of motion. * The resolution/frame rate are fixed in the 🔛 (Compact) mode.



- See Image Data Sizes (Estimated) (p. 100).
- See Memory Cards and Estimated Capacities (p. 99).

SCN Shooting in a Special Scene Mode

Shooting Mode SCN

You can take an optimal picture simply by selecting the appropriate shooting mode.

1 FUNC. Menu **→ (Special Scene Mode).**

See Menus and Settings (p. 22).

- *Default setting.
- Use the ◀ or ▶ button to select a shooting mode and press the FUNC./SET button.
- See the Basic Guide (p. 7) for explanations of the Special Scene modes.



2 Shoot.



- The shutter speed is slow in (fireworks) mode. Always use a tripod to avoid camera shake.
- In (Indoor), (Kids&Pets) or (Night Snapshot) mode, the ISO speed may increase and cause noise in the image depending on the scene being shot.
- In (Kids&Pets) mode, shoot with the subject 1 m (3.3 ft.)
 infinity from the end of the lens.

OM Shooting in Manual Mode

Shooting Mode



You can adjust settings yourself, such as the exposure, white balance and photo effect, when shooting in this mode.

FUNC. Menu → Tal* (Manual).

See Menus and Settings (p. 22). *Default setting.

- •See the Basic Guide (p. 7) for Manual mode explanations.
- •See Functions Available in Fach Shooting Mode (p. 106).



Change the settings as required and shoot.

Magnified Close-Up Shooting (Super Macro)

Shooting Mode M



You can shoot a subject from as close as 1.5 cm (0.6 in.) (minimum focal distance) with an area of 20 x 15 mm (0.79 x 0.59 in.) at the maximum wide angle setting. With the digital zoom, the image area is 7 x 5 mm (0.28 x 0.20 in.) at maximum zoom (approximately 3.2x).

FUNC. Menu → 🛐 (Super Macro).

See Menus and Settings (p. 22).



2 Press the (A) or (III) button to choose the angle of view and shoot.

Using the Digital Zoom

By combining the digital and optical zooms, you can shoot with images zoomed.

Still images: approximately 10x max. (Super macro: approximately 3.2x max.)

Movies (Standard): approximately 6.4x max.



The digital zoom cannot be used when the LCD monitor is turned off

See Menus and Settings (p. 23).

 [On] is the default setting for Super Macro and Movie (standard).



2 Press 🟚 button and shoot.

- When you press the [*] button, the zoom stops when the lens reaches the maximum optical telephoto setting (when shooting still images).
 - Press the [] button again to activate the digital zoom and further zoom the image digitally.
- ●Press the ••• button to zoom out.



 Images become coarser the more they are digitally zoomed.

Continuous Shooting

Shooting Mode M S SCN

In this mode, the camera shoots continuously while the shutter button is held down.

In addition, continuous shooting is possible (p. 99) at a consistent interval (smooth continuous shooting) until the memory card is full under the following conditions*.

- * The recommended super high-speed SDC-512MSH memory card (sold separately) is used and formatted with a low level format (p. 21).
- This reflects standard shooting criteria established by Canon.
 Actual results may vary according to the subject and shooting conditions.
- Even if continuous shooting suddenly stops, the memory card may not be full.

1 FUNC./Menu → ■* (Drive Mode) → ■ (Continuous Shooting).

See Menus and Settings (p. 22).

*Default setting.



2 Shoot.

 The camera will continue to record successive images while the shutter button is held down. Recording will cease when the shutter button is released.

To Cancel Continuous Shooting

FUNC. Menu →

(Continuous Shooting) →

(Single).



- The interval between shots may lengthen if the internal memory becomes full.
- If the flash fires, the interval between shots may lengthen.

Postcard Date Imprint Mode

You can shoot images with the optimal settings for postcards by composing them inside the print area (width-to-height ratio of approximately 3:2) shown in the LCD monitor.

See Menus and Settings (p. 22).

- *Default setting.
- ●The resolution is set to M1 (1600 x 1200) and the compression to ☐ (Fine).
- When you press the shutter button halfway, the area that will not get printed grays out.





The digital zoom cannot be used in this mode.



For printing instructions, refer to the Direct Print User Guide.

Embedding the Date in the Image Data

You can embed the date in image data when **S** (Postcard Date Imprint Mode) is selected. The date will be printed on your images even if it has not been set with a computer or printer.

See Menus and Settings (p. 23).

In the LCD monitor

🔊: [Off]

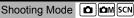
[Date]/[Date & Time]





- Ensure that the camera's date/time is set beforehand (p. 25).
- The date stamp cannot be deleted from the image data once it has been set.

Using the Self-Timer



You can set the shutter to a 10 sec. () or 2 sec. delay (), or to a custom delay time and number of shots (Custom Timer), for shooting after the shutter button is pressed.

FUNC. Menu → ■* (Drive Mode).

- *Default setting.
- •Use the ◀ or ▶ to select the selftimer mode and press the FUNC./ SFT button
- The following occurs with each option.
 - 🚵 : 2 sec. before the shutter releases, the self-timer sound and lamp will speed up.
 - S: The self-timer sound will play when the shutter button is pressed and the shutter will release 2 sec. later.
 - You can change the delay time and number of shots (p. 36).

Shoot.

•When the shutter button is pressed fully, the self-timer lamp will blink (when Red-Eye Reduction, it will lit before 2 sec.).

To Cancel the Self-Timer

FUNC. Menu → 🚫 / 😭 / Self-Timer) → 🔳 (Single).



Changing the Delay Time and Number of Shots ().

You can change the delay time (0–10, 15, 20, 30 sec.) and number of shots (1–10). These settings, however, cannot be set for the Stitch Assist mode, movie mode or My Colors modes.

1 FUNC. Menu → 🔳 (Drive Mode) → 🔯.

See Menus and Settings (p. 23).



2 Press the MENU button.

- Use the ▲ or ▼ to select the [Delay]/[Shots] and use the ◀ or ► to change settings, then press the FUNC./ SET button.
- The self-timer sound will behave as follows.
 - If multiple shots have been specified for the [Shots] option, the sound will play for the first shot only.



- The self-timer sound will start 2 sec. before the specified delay for shooting is over



If the [Shots] option is set to 2 or more seconds, the following occurs.

- The exposure and white balance are locked at the settings selected for the first shot.
- If the flash fires, the interval between shots may lengthen.
- The interval between shots may lengthen if the internal memory becomes full.
- Shooting will automatically cease if the memory card becomes full.

Movie Shooting

Shooting Mode





You cannot record audio.

The following three movie modes are available.

Standard

You can select the resolution/frame rate and record. The digital zoom can be used while shooting in this mode.

- Resolution/Frame Rate: [(640 x 480) 10 frames/sec.], (320 x 240) 20 frames/sec.]
- Max. Clip Length: 3 minutes

Ą, Compact

Since the resolution is low, this mode is convenient for sending movies as e-mail attachments or when the memory card capacity is low

- Resolution/Frame Rate: [(160 x 120) 15 frames/sec.]
- · Max. Clip Length: 3 minutes

My Colors

You can change image colors and then shoot (p. 49). As with the Standard mode, you can also select the resolution/frame rate.

- Resolution/Frame Rate: [(640 x 480) 10 frames/sec.],
- (320 x 240) 20 frames/sec.] Max. Clip Length: 3 minutes
- The recording time will vary according to the capacity of the memory card you use (p. 99).

1 FUNC. Menu **→ □*** (Movie).

See Menus and Settings (p. 22).

*Default setting.

 Use the ◀ or ▶ button to select a movie mode and press the FUNC./SET button.



2 Shoot.

- Pressing the shutter button halfway automatically sets the exposure, focus and white balance settings.
- Pressing the shutter button fully starts recording video.
- During shooting the recording time (in seconds) and a red circle appear on the LCD monitor.
- Pressing the shutter button fully again stops recording.
 Recording will stop automatically under the following circumstances.
 - When the maximum recording time elapses
 - When the internal memory and the memory card becomes full



- You are recommended to use a memory card that has been formatted in your camera to shoot movies (p. 21).
 The card supplied with the camera may be used without further formatting.
- The focus and zoom settings remain fixed for subsequent frames at the values selected for the first frame.



- Before recording, you can set the white balance (p. 45).
- QuickTime 3.0 or later is required to play back movies (Data type: AVI/Compression method: Motion JPEG) on a computer. QuickTime (for Windows) is included on the Canon Digital Camera Solution Disk. On the Macintosh platform, this program is standard with Mac OS X or later.

Shooting Panoramic Images (Stitch Assist)

Shooting Mode



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





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



FUNC. Menu → 🔟 / 🖾 (Stitch Assist).

See Menus and Settings (p. 22).

- You can select from the following two shooting directions.
 - Left to right horizontally
 - Right to left horizontally



2 Shoot the first frame in the sequence.

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



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

- Use the

 or

 button to return the previous image or retake the recorded images.
- Minor discrepancies in the overlapping portions can be corrected when the images are stitched together.

4 Repeat the procedure for additional images.

- A sequence may contain up to 26 images.
- Press the FUNC./SET button after the last shot.



The initial settings are applied from the second picture shot.



Use PhotoStitch, a supplied program, to merge the images on a computer.

You can display a four-line (two vertical, two horizontal) grid on the LCD monitor.

See Menus and Settings (p. 23).

- *Default setting.
- This grid does not appear on your pictures.



Switching between Focusing Modes

Shooting Mode M S SCN

You can select between the following two focusing modes according to the AiAF setting.

-1-	The camera detects the subject and highlights of frames, from 5 available points, that it will use to determine the focus.	
	Off	The camera focuses using the center AF frame. This is convenient for focusing on a specific part of a subject with greater certainty.

See Menus and Settings (p. 23).

• (Fireworks) and (Kids&Pets) modes cannot be set.





- The focus is locked to the center AF frame when the digital zoom is used.
- The AF frame will display as follows (when the LCD monitor is on).
 - AiAF Set to [On]
 - Green Frame: Shooting preparations complete

(focused AF frame)

No Frame: Focusing difficulty

- AiAF Set to [Off] (single, centered AF frame)

Green Frame: Shooting preparations complete

· Yellow Frame: Focusing difficulty

Shooting Hard-to-Focus Subjects

It may be difficult to focus on the following types of subjects.

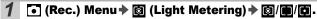
- Subjects with extremely low contrast to the surroundings
- •Scenes with a mixture of near and far subjects.
- •Subjects with extremely bright objects at the center of the composition
- Subjects that are moving quickly
- Subjects through glass: Try to shoot as close to the glass as possible to reduce the chances of light reflecting back off the glass.
- Aim the camera so that an object at the same focal distance as the main subject is centered in the viewfinder or in the AF frame displayed on the LCD monitor.
- **2** Press the shutter button halfway.
- 3 Re-aim the camera to compose the shot as desired and press the shutter button fully.



When shooting with the focus lock using the LCD monitor, setting [AiAF] to [Off] (p. 24) in the (Rec.) menu is recommended since the camera focuses using the center AF frame only.

Switching between Metering Modes

Shooting Mode M M S



See Menus and Settings (p. 22).



Metering Methods

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

Adjusting the Exposure Compensation

Shooting Mode ScN

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



FUNC. Menu → * (Exposure Compensation).

See *Menus and Settings* (p. 22). *Default setting.

 Use the ◀ or ▶ button to adjust the exposure compensation and press the FUNC./SET button.



To Cancel the Exposure Compensation

Restore the compensation value to [0].



Exposure compensation is not available in the \square (Color Accent) or \square (Color Swap) My Colors modes.

Adjusting the Tone (White Balance)

Shooting Mode MM

Normally, the (Auto) white balance setting selects an optimal white balance. When the (Auto) setting cannot produce natural looking colors, change the white balance using a setting appropriate to the light source.

1 FUNC. Menu **→ III** * (White Balance).

See Menus and Settings (p. 22).

*Default setting.

●Use the ◀ or ▶ button to select a

Ouse the ◀ or ▶ button to select a white balance setting and press the FUNC./SET button.



White Balance Settings

AWB	Auto Settings are automatically set by the camera	
	Day Light For recording outdoors on a bright day	
2	Cloudy For recording under overcast, shady or twilight skies	
٠	Tungsten For recording under tungsten and bulb-type 3- wavelength fluorescent lighting	
775	Fluorescent For recording under warm-white, cool-white or warm-white (3-wavelength) fluorescent lighting	
洲	Fluorescent H For recording under daylight fluorescent, or daylight fluorescent lighting	
	Custom	For recording with the optimal white balance data memorized in the camera from a white-colored object, such as white paper or cloth



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

Using the Custom White Balance

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

In particular, take a custom white balance reading for the following situations that are difficult for the (Auto) setting to detect correctly.

- Shooting close-ups
- Shooting subjects of monotone color (such as sky, sea or forest)
- Shooting with a peculiar source of light (such as a mercury-vapor lamp)

1 FUNC. Menu **→** □ (Custom).

See Menus and Settings (p. 22).



- 2 Aim the camera at a piece of white paper or cloth and press the MENU button.
 - If you are viewing it with the LCD monitor, ensure that the center frame is completely filled with the white image. If you are using the optical viewfinder, ensure that the entire field is filled.



- You are recommended to set the shooting mode to and the exposure compensation setting to zero (±0) before setting a custom white balance. The correct white balance may not be obtained when the exposure setting is incorrect (image appears completely black or white).
- Shoot with the same settings as when reading the white balance data. If the settings differ, the optimal white balance may not be set.

In particular, the following should not be changed.

- ISO Speed
- Flash
 - Setting the flash to on, on (with Red-Eye Reduction), or off is recommended. If the flash fires when reading the white balance data with the flash set to [4] (Auto) or [6] (Auto with Red-Eye Reduction), make sure that you also use the flash when you shoot.
- Since the white balance data cannot be read in Stitch Assist mode, preset the white balance before selecting [Stitch Assist] in the FUNC. menu.
- The camera will retain the custom white balance setting that you record even if you reset the camera to the default settings (p. 26).

Changing the Photo Effect

Shooting Mode M W L P F F









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

1

FUNC. Menu → @ * (Photo Effect).

See Menus and Settings (p. 22).

- *Default setting.
- •Use the ◀ or ▶ button to select a photo effect and press the FUNC./ SET button.



Photo Effect Settings

Gtt	Effect Off	Records normally with this setting.
Ŷ	Vivid	Emphasizes the contrast and color saturation to record bold colors.
ÇŅ	Neutral	Tones down the contrast and color saturation to record neutral hues.
ĿŞ	Low Sharpening	Records subjects with softened outlines.
Ş	Sepia	Records in sepia tones.
₿₩	B/W	Records in black and white.

Shooting in a My Colors Mode

Shooting Mode M S 🖳

A My Colors mode easily changes the colors in an image when it is shot, allowing you to alter the balance between red, green and blue, transform pale or tanned skin or change a color specified in the LCD monitor into a different color. Since they work with both stills and movies, these modes let you enjoy producing various image or movie effects.

However, depending on the shooting conditions, the images may appear rough or you may not get the expected color. Before you try to photograph important subjects, we highly recommend that you shoot trial images and check the results.

Moreover, the camera will record both the My Colors image and the original unaltered image if you set [Save Original] (p. 24) to [On].

My Colors Settings

Ар	Positive Film	Use this option to make red, green or blue colors more intense like the Vivid Red, Vivid Green or Vivid Blue effects. It can produce intense natural-appearing colors like those obtained with positive film.
$oldsymbol{arTheta}_{L}$	Lighter Skin Tone*	Use this option to make skin tones lighter.
\mathcal{A}_{D}	Darker Skin Tone* Use this option to make skin tones darker.	
\mathcal{A}_{B}	Vivid Blue Use this option to emphasize blue tints. It makes blue subjects, such as the sky or ocean, more vivi	
₽G	Vivid Green	Use this option to emphasize green tints. It makes green subjects, such as mountains, new growth, flowers and lawns, more vivid.
\mathcal{A}_{R}	Vivid Red Use this option to emphasize red tints. It makes re subjects, such as flowers or cars, more vivid.	
θ_{A}	Color Accent Use this option to have only the color specified in th LCD monitor remain and to transform all others to black and white.	



Color Swap

Use this option to transform a color specified in the LCD monitor into another. The specified color can only be swapped into one other color, multiple colors cannot be chosen.

- * The skin colors of non-human subjects may also be altered.
- * You may not obtain the expected results depending on the skin color.

1 FUNC. Menu → 😭 (My Colors: Stills)/ 🚰 (My Colors: Movies).

See Menus and Settings (p. 22).





MOVIES

2 FUNC. Menu → 🗗 * (Positive Film).

See Menus and Settings (p. 22).

*Default setting.

●Use the ◀ or ▶ button to select a



3 Shoot.

ullet eta_{P} eta_{L} eta_{D} eta_{B} eta_{G} eta_{R} Modes

Press the **FUNC./SET** button. The display will return to the shooting screen and you can shoot.

● A A B Modes

Mv Colors mode.

A: See Setting the Camera to the Color Accent Mode (p. 52).

As: See Setting the Camera to the Color Swap Mode (p. 53).



The ISO speed will rise with some settings, which may increase the "noise" in the image.

Changing the Save Method for the Original Image

When you are shooting still images in a My Colors mode, you can specify whether or not both the altered image and the original image are recorded.

(Rec.) Menu → (Save Original) → [On]/[Off].

See Menus and Settings (p. 23).

 If [On] is selected, the two images will be numbered consecutively with the altered image following the original.





Save Original is Set to [On]

- Only the altered image is shown in the LCD monitor during shooting.
- The image that appears in the LCD monitor immediately after recording is the altered image. If you erase the image at this point, the original image is erased along with the altered image.
 Exercise adequate caution before deleting a file.
- Since two images are recorded with each shot, the number of shots remaining is approximately half the number displayed when this function is set to [Off].

Setting the Camera to the Color Accent Mode

Colors other than the color specified in the LCD monitor are shot in black and white.

1 SA (Color Accent) → MENU button.

See Menus and Settings (p. 22).

 The camera will switch to color input mode and the display will alternate between the original image and the color accent image (using the previously set color).



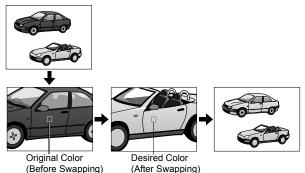
- Aim the camera so that the color you wish to retain appears at the center of the LCD monitor and press the ◀ button.
 - Only one color can be specified.
 - You can use the ▲ or ▼ button to specify the range of colors that are retained.
 - -5 : Only takes the color that you want to retain.
 - +5: Also takes colors close to the one that you want to retain.
- 3 Press the FUNC./SET button.
 - This completes the setting.
 - Press the MENU button to return the My Colors mode selection screen.



- The default color accent is green.
- You may not obtain the expected results after color input mode if you use the flash, or change the white balance or metering settings.
- The chosen Color Accent is retained even if the camera's power is turned off.

Setting the Camera to the Color Swap Mode

This mode allows you to transform a color specified in the LCD monitor into another.



1 ☑ (Color Swap) → MENU button.

See Menus and Settings (p. 22).

 The camera will switch to color input mode and the display will alternate between the original image and the color swap image (using the previously set color).



2 Aim the camera so that the original color appears at the center of the LCD monitor and press the ◀ button.

- Only one color can be specified.
- You can use the ▲ or ▼ button to specify the range of colors that are swapped.
 - -5: Only takes the color that you want to swap.
 - +5: Also takes colors close to the one that you want to swap.

- Aim the camera so that the desired color appears at the center of the LCD monitor and press the ▶ button.
 - Only one color can be specified.
- 4 Press the FUNC./SET button.
 - This completes the setting.
 - Press the **MENU** button to return the selecting screen for the My Colors mode.



- The default setting for color swap mode changes green into white.
- You may not obtain the expected results after color input mode if you use the flash, or change the white balance or metering settings.
- The colors specified in the color swap mode are retained even if the camera's power is turned off.

Adjusting the ISO Speed



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

FUNC. Menu → 🛗 * (ISO Speed).

See Menus and Settings (p. 22).

- *Default setting.
- Use the ◀ or ▶ button to select an ISO speed and press the FUNC./ SET button.
- The AUTO setting selects the optimal speed.



The images you shoot are automatically assigned file numbers. You can select how the file number is assigned.

1 (Set up) Menu → (File No. Reset) → [On]/ [Off].

See Menus and Settings (p. 23).



File No. Reset Function

- On The file number is reset to the start (100-0001) each time a new memory card is inserted. New images recorded on memory cards with existing files are assigned the next available number.
- Off
 The file number of the last image to be shot is memorized so that images recorded to a new memory card start from the next number. This is convenient for managing all your images together on a computer because you avoid file name duplication.



See the Software User Guide regarding memory card folder structures.

Playback/Erasing

→ See the Basic Guide (p. 10)

Magnifying Images

1 Press the zoom lever toward Q.

- SED : will display and a magnified portion of the image will display.
- Images can be magnified up to a factor of approximately 10x.



Approximate Location of the Magnified Area

Press the FUNC./SET button and use the ◀, ▶, ▲ or ▼ button to move around the image.

- SET Q will display.
- ●If you press the **FUNC./SET** button once more, the camera switches to image advance mode and ����r will display. You can use the ◀ or ▶ button to advance to the next or previous image at the same level of magnification. The image advance mode cancels when you press the **FUNC./SET** button again.
- •You can change the magnification level with the zoom lever.

To Cancel the Magnified Display

Press the zoom lever toward ▼. (You can also cancel it immediately by pressing the **MENU** button.)



Movie frames and index playback images cannot be magnified.

Viewing Images in Sets of Nine (Index Playback)

1 Display an image by pressing the FUNC./SET button at least 1 second.

- Up to nine images can be viewed at once in index playback.
- •Use the ◀, ▶, ▲ or ▼ button to change the image selection.

Selected Image



Movie

To Return to Single Image Playback

Press the FUNC./SET button at least 1 second.

Viewing Movies



Movies cannot be played in the index playback mode.

1 Display a movie and press the FUNC./SET button.

•Images with a ■ icon are movies.



Movie Control Panel

2 Select (Play) and press the FUNC./SET button.

- The movie will pause if you press the FUNC./SET button during playback. It will resume when you press the button again.
- When playback ends, the movie stops at the last frame displayed. Press the FUNC./SET button to display the movie control panel.

Operating the Movie Control Panel

- Single image playback
- Play
- Print (Only appears when connected to a printer. For details, refer to your Direct Print documentation.)
- Displays the first frame
- Previous Frame (Rewinds if the **FUNC./SET** button is held down)
- Next Frame (Fast Forwards if the **FUNC./SET** button is held down)
- Displays the last frame
- Edit (Switches to movie editing mode) (p. 59)

Editing Movies

You can delete portions of recorded movies.



Movies that are 1 sec. or longer before editing can be edited in 1-second units, but protected movies and movies less than 1 sec. long cannot be edited.

- 1 Select ((Edit) in the movie control panel and press the FUNC./SET button.
 - The movie editing panel and the movie editing bar will display.



Movie Editing Bar

- 2 Use the ▲ or ▼ button to select (Cut Beginning) or (Cut End) and the ◀ or ▶ button to specify the point (♥) at which to cut.
 - ◆To check a temporarily edited movie, select

 (Play) and press the FUNC./SET button.
 - Selecting (Exit) cancels the edit and restores the movie control panel.
- 3 Select (Save) and press the FUNC./SET button.



Select [New File] or [Overwrite] and press the FUNC./SET button.

 [New File] saves the edited movie under a new file name. The preedit data is left unchanged.
 Note, if you press the FUNC./SET button while saving the movie, saving is canceled.



- [Overwrite] saves the edited movie with its original name. The pre-edit data is lost.
- When there is not enough space left on the memory card, only [Overwrite] can be selected.



It may take approximately 3 minutes to save an edited movie. If the battery runs out of charge partway through, edited movie clips cannot be saved. When editing movies, it is recommended to use the two new or fully charged AA-size NiMH batteries, or the separately sold AC Adapter Kit ACK800 (p. 88).

Rotating Images in the Display

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







Original

90°

□ (Play) Menu → (Rotate).

See Menus and Settings (p. 23).



- Use the ◀ or ▶ button to select an image to rotate and press the FUNC./SET button to rotate it.
 - ●Cycle through the 90°/270°/original orientations with each press of the FUNC./SET button.
 - •Images can be rotated in index playback.



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

Automated Playback (Auto Play)

All the images on a memory card can be displayed automatically. The displaying time is 3 seconds.

See Menus and Settings (p. 23).

- •The Auto Play starts.
- Following functions are available during automated playback.
 - Pausing/resuming the Auto Play: press the FUNC./SET button
 - Fast forward/rewind the Auto Play: press the ◀ or ▶ button (continue to hold the button to advance more rapidly)

ত্ৰ Rotate

Auto Play

📑 Transfer Order

- Stopping the Auto Play: press the **MENU** button.



- Depending on the images, the display interval may vary slightly from the setting when played.
- Movies play for their entire recorded length regardless of the Auto Play time settings.
- The power saving function is disabled while an Auto Play plays on the camera (p. 20).

Protecting Images

You can protect important images and movies from accidental erasure.

See Menus and Settings (p. 23).



- 2 Select an image you want to protect using the ◀ or ▶ button, and press the FUNC./SET button.
 - Pressing the FUNC./SET button again cancels the setting.
 - You can also protect images in the index playback mode.



Protection Icon

Erasing All Images



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

See Menus and Settings (p. 23).



- 2 Select [OK] and press the FUNC./SET button.
 - •To exit instead of erasing, select [Cancel].



Please format the memory card when you want to erase not only image data but also all the data contained on the card (p. 21).

Print Settings/Transfer Settings

Setting the DPOF Print Settings

You can select images on a memory card for printing and specify the number of print copies in advance using the camera. This is extremely convenient for printing on a direct print compatible printer, or for sending the images to a photo developing service that supports DPOF.

The Δ icon may display for a memory card with print settings set by a different DPOF-compliant camera. These settings will be overwritten by those set by your camera.

See Menus and Settings (p. 23).



Single Images

- 2 Select [Order] and press the FUNC./SET button.
 - Selecting [Reset] cancels all print settings for the images.



3 Select images for printing.

- As shown below, selection methods differ for the Print Type settings (p. 67).
 - ■(Standard)/■⊞ (Both)
 Select an image, press the
 FUNC./SET button and use the
 A or ▼ button to select the
 number of print copies (up to
 99).
 - ፱ (Index)
 Select an image and the press
 FUNC./SET button to select or
 deselect it.
- You can also select images in the index playback mode.

Number of Print Copies



Index Print Selection



All the Images on a Memory Card

- 2 Select [Mark all] and press the FUNC./SET button.
 - Selecting [Reset] cancels all print settings for the images.



3 Select [OK] and press the FUNC./SET button.



- The output of some printers or photo developing services may not reflect the specified print settings.
- Print settings cannot be set for movies.



- Images are printed in order from oldest to newest by the shooting date.
- A maximum of 998 images can be selected.
- When [Print Type] is set to [Both], the number of copies can be set. When it is set to [Index], the number of copies cannot be set (only one copy will be printed).
- Do not set the date in the DPOF print settings when printing images that have had the date embedded with the [Date Stamp] function. This may cause the date to be printed twice.

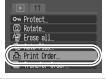
Setting the Print Style

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

	Standard	Prints one image per page.	
Print Type	■ Index	Prints the selected images together at a reduced size in an index format.	
	■■ Both	Prints the images in both the standard and index formats.	
		Adds the date to the print.	
Sile No.		Adds the file number to the print.	

1 □ (Play) Menu → □ (Print Order).

See Menus and Settings (p. 23).



2 Select [Set up] and press the FUNC./SET button.



3

Select [Print Type], [Date] or [File No.] and then select the settings.



- The Date and File No. settings will change according to the Print Type as follows.
 Index
 - [Date] and [File No.] cannot be set at the same time.
 - Standard or Both
 [Date] and [File No.] can both be set to [On] at the same
 time. However, the printable information may vary
 between printers.
- Embedded dates in (Postcard Date Imprint mode)
 (p. 34) print out even when [Date] is set to [Off].
- Dates print in the style specified in the [Date/Time] menu (p. 25).

Setting the DPOF Transfer Settings

You can use the camera to specify settings for images before downloading to a computer. Refer to the *Software Starter Guide* for instructions on how to transfer images to your computer.

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

The ▲ icon may display for a memory card with transfer settings set by a different DPOF-compliant camera. These settings will be overwritten by those set by your camera.



See Menus and Settings (p. 23).



Single Images

- 2 Select [Order] and press the FUNC./SET button.
 - Selecting [Reset] cancels all transfer order settings.



3 Select an image to transfer and press the FUNC./SET button.

- Pressing the FUNC./SET button again deselects the setting.
- You can also select images in the index playback mode (p. 57).

Transfer Selection



All the Images on a Memory Card

2 Select [Mark all] and press the FUNC./SET button.

 Selecting [Reset] cancels all transfer order settings.



3 Select [OK] and press the FUNC./SET button.



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

Troubleshooting

Camera

Camera will not operate.				
Power is not turned on.	●Press the power button for a moment (<i>Basic Guide</i> p. 2).			
Memory card slot/battery cover is open.	Confirm that the memory card slot/ battery cover is securely closed (Basic Guide p. 1).			
Batteries are loaded in the wrong direction.	 Put batteries back into the camera in the correct direction (<i>Basic Guide</i> p. 1). 			
Batteries are not the right type.	 Use only unused AA-size alkaline batteries or Canon AA-size NiMH batteries. (Basic Guide p. 1). 			
Insufficient battery voltage ("Change the battery pack" message displays).	 Insert the two unused or fully charged AA-size NiMH batteries into the camera (<i>Basic Guide</i> p. 1). Use the AC Adapter Kit ACK800 (sold separately) (p. 88). 			
Poor contact between camera and battery terminals.	 Polish the terminals with a soft cotton swab before charging or using the battery (p. 83). Reinsert the batteries several times. 			

When the power is turned on

"Card locked!" message appears.			
The SD memory card's write protect tab is set to "Write protect".	 When recording to, erasing from or formatting the memory card, slide the tab upward (p. 85). 		

The Date/Time menu appears.

The lithium coin battery charge is low.

●Replace it (p. 87).

LCD monitor

The display darkens.

The image in the LCD monitor will darken in strong sunlight or bright light.

 This does not constitute a malfunction and has no effect on images that have been shot.

A bar of light (red, purple) appears on the LCD monitor.

Subject is too bright.

•This is a normal occurrence in devices containing CCDs and does not constitute a malfunction. This bar of light will not be recorded when shooting still photos, but it will be recorded when shooting movies.

appears.

A slow shutter speed has likely been selected because of insufficient lighting.

 Raise the ISO speed, set the flash to anything other than ((Flash off), or affix the camera to a tripod to shoot (Basic Guide p. 8).

A appears.

The symbol will display when using a memory card that had print settings or transfer settings set by other DPOF-compliant cameras.

 Be careful when making changes to the print or transfer settings with other DPOF cameras, because all such settings will be overwritten by your camera (p. 65).

Shooting

Camera will not record.				
Mode switch is set to ▶ (playback).	●Set the mode switch to ♠, ♠M, SCN or ۗ, (Basic Guide p. 6).			
Flash is charging.	•The indicator will light orange when it is charged. You can then press the shutter button (p. 19).			
Memory card is full.	 Insert a new memory card (Basic Guide p. 1). If required, download the images to a computer and erase them from the memory card to make space (p. 64, Basic Guide p. 10). 			
Memory card is not formatted correctly.	 Format the memory card (p. 21). If reformatting does not work, the memory card logic circuits may be damaged. Consult the nearest Canon Customer Support Help Desk. 			
SD memory card is write protected.	•Slide the write protect tab of the SD memory card upward (p. 85).			
Image Seen in View	wfinder vs. Recorded Image			
Usually the recorded image contains more of the scene than is seen in the viewfinder.	Confirm the actual image size with the LCD monitor. As there can be a noticeable difference, use the LCD monitor when in macro and super macro mode (p. 15).			
Image is blurred o	r out of focus.			
AF-assist Beam is set to [Off].	•In dark places where it is difficult for the camera to focus, the AF-assist Beam will emit to assist focusing. As the AF-assist Beam will not function when turned off, set it [On] to activate it (p. 24). Take care not to obstruct the AF-assist Beam with your hand when used.			

The camera moves when the shutter button is pressed.	● Setting the self-timer to ② (2 seconds) delays the shutter release for 2 seconds and allows the camera to stop shaking, thus preventing a blurred image (p. 35). Even better results can be obtained by placing the camera on a stable surface or by using a tripod to shoot.
Subject is out of focal range.	 Shoot with the subject at the correct shooting distance (p. 95). Use the Infinity mode to shoot distant subjects (<i>Basic Guide</i> p. 9).
The subject is hard to focus on.	●Use the focus lock to shoot (p. 42).
Subject in recorde	d image is too dark.
Insufficient light for shooting.	●Set the flash to on (On) (Basic Guide p. 8).
Subject is dark in contrast to the background.	 Set the exposure compensation to a positive (+) setting. Use the spot metering function (p. 43).
Subject is too far away for flash to reach.	 Shoot within shooting distance of the subject when using the internal flash (p. 95). Raise the ISO speed and then shoot (p. 54).

Subject in recorde	d image is too bright.		
Subject is too close, making the flash too strong.	 Shoot within correct shooting distance of the subject when using the internal flash. 		
Subject is bright in contrast to the background.	 Set the exposure compensation to a negative (-) setting (p. 44). Use the spot metering function (p. 43). 		
Light is shining directly on the subject or reflected off the subject into the camera.	Change the shooting angle.		
Flash is set to on.	●Set the flash to off (Flash off) (Basic Guide p. 8).		
Image flashes white. Image contains noise.			
ISO speed is too high.	●Higher ISO speeds increase image noise. To take clean images, use as low an ISO speed as possible (p. 54). ●In ➡ Night Snapshot, ➡ Kids&Pets, and ➡ Indoor modes, the ISO speed increases and noise can occur.		
White dots appear	on the image.		
Light from the flash has reflected off dust particles or insects in the air. This is particularly noticeable when shooting using the wide angle.	 This is a phenomenon that occurs with digital cameras and does not constitute a malfunction. 		

Eyes appear red.

Light reflecting back from eyes can make them appear red when the flash is used in dark areas.

- ●Under these conditions, use the red-eye reduction mode (Basic Guide p. 8). For this mode to be effective, the subject must be looking right at the red-eye reduction lamp. Try asking them to look directly at the lamp.
- ●Even better results can be obtained by increasing the lighting in indoor settings or approaching closer to the subject. The shutter will not activate for approximately 1 second after the red-eye reduction lamp fires in order to improve the effect (except when shooting in the

 Kids&Pets mode).

Continuous shooting slows down.

The memory card's performance has dropped.

●To enhance the continuous shooting performance, you are recommended to format the memory card in the camera after you save all its images to your computer (p. 21, Basic Guide p. 13).

Recording images to memory card takes a along time.

Memory card was formatted in another device.

 Use a memory card formatted in your camera (p. 21).

Lens will not retract.

Memory card slot/battery cover was opened with power on.

 First close the memory card slot/ battery cover and then turn the power off (Basic Guide p. 1).

Shooting Movies

The recording time may not display properly or filming may stop unexpectedly.

The following types of memory cards are used.

- Slow recording cards.
- Cards formatted on a different camera or a computer.
- Cards which have had images recorded and erased repeatedly.
- •Although the recording time may not display properly during shooting, the movie will be recorded correctly on the memory card. Recording time will display properly if you format the memory card in this camera (excluding slow recording memory cards) (p. 21).

"!" displays frequently in the LCD monitor.

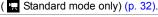
If free space in the camera's internal memory becomes too scarce, the "!" symbol will display on the LCD monitor in red and the camera will automatically cease filming shortly thereafter.

- Try the following procedures.
 - Reformat the memory card before filming (p. 21).
 - Lower the resolution or frame rate (p. 29).
 - Use a high-speed memory card (SDC-512MSH, etc.).

Zoom does not operate.

Zoom button was pressed while shooting in movie mode.

Operate the zoom before shooting in movie mode (*Basic Guide* p. 7). However you can use the digital zoom while shooting in movie mode



Playback

Cannot play back.

You attempted to play back images shot with another camera or images edited with a computer. Computer images that cannot be played back will play back if they are added to the camera using the bundled software program ZoomBrowser EX or ImageBrowser. See ZoomBrowser EX/ ImageBrowser Software User Guide (PDF).

File name was changed with a computer or file location was changed.

 Set the file name or location on the file format/structure of the camera. (Refer to the Software Starter Guide for details).

Movies cannot be edited.

Some movies shot with another camera cannot be edited.

Movies do not play back correctly.

Movies recorded with high resolutions/frame rates may momentarily stop playing if played on slow reading memory cards.

You may experience frame dropping when playing back a movie on a computer with insufficient system resources.

Reading images from memory card is slow.

Memory card was formatted in another device.

 Use a memory card formatted in your camera (p. 21).

Battery/Battery Charger

Battery consumed	quickly.
Batteries are not the right type.	Use only unused AA-size alkaline batteries or fully charged Canon AA-size NiMH batteries. See Battery Handling (p. 83).
The batteries are cold. Battery performance deteriorates at low temperatures.	•If shooting in a cold area, keep the batteries warm (by placing them in an inner pocket, etc.) until ready to use them.
Battery terminals are dirty.	Wipe them well with a dry cloth before use. Reinsert the batteries several times.
Canon AA-size NiM quickly.	H batteries consumed
The batteries have not been used for over a year.	 If batteries are rechargeable: Performance should return to normal after several charging cycles.
Battery life exceeded.	Replace the batteries with the unused batteries.
Batteries do not ch battery charger.	narge in separately sold
Batteries were placed in the charger in the wrong direction.	Put batteries back into the charger in the correct direction.
Poor electrical contact.	Be sure to set batteries firmly into the charger. Be sure that the power cord is firmly connected to the charger, and is firmly plugged in to the power outlet.
Battery terminals are dirty.	Wipe them well with a dry cloth before charging.
Battery life exceeded.	Replace both batteries with unused ones.

List of Messages

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

Busy...

•Image is being recorded to, or read from, memory card.

No memory card

 You attempted to shoot or play back images without a memory card installed.

Card locked!

The SD card is write-protected.

Cannot record

You attempted to shoot an image without a memory card.

Memory card error

Memory card has experienced an anomaly.

Memory card full

 Memory card is full of images and no more can be recorded or saved. Or no more image settings or sound memos can be recorded.

Naming error!

Change the battery pack.

 Battery charge is insufficient to operate the camera. Replace with unused AA-size alkaline batteries or fully charged Canon AAsize NiMH batteries (be sure to replace all the batteries at the same time).

No image.

No images recorded on memory card.

Image too large.

 You attempted to play back an image larger than 4992 x 3328 pixels or with a large data size.

Incompatible JPEG format.

You attempted to play back an incompatible JPEG image.

Corrupted Data.

You attempted to play back an image with corrupted data.

RAW

You attempted to play back a RAW image.

Unidentified Image

 You attempted to play back an image that was recorded in a special data type (proprietary data type used by the camera of another manufacturer, etc.) or a movie clip recorded by another camera

Cannot magnify!

 You attempted to magnify an image recorded in a different camera or data type, an image edited with a computer, or a movie.

Cannot rotate

 You attempted to rotate an image recorded in a different camera or data type, an image edited with a computer, or a movie.

Protected!

You attempted to erase a protected image or movie.

Too many marks.

 Too many images have been marked with print settings or transfer settings. Cannot process any more.

Cannot complete!

Could not save the print or transfer settings.

Unselectable image.

•You attempted to set the print settings for a non-JPEG image.

Exx

•(xx: number) Camera malfunction. Turn the power off and then back on, then shoot or play back. A problem exists if the error code reappears. Note the number and contact your Canon Customer Support Help Desk. If an error code displays directly after taking a picture, the shot may not have been recorded. Check image in playback mode.

Appendix

Battery Handling

Battery Charge

The following icon and message will display.



Recharge it as soon as possible if it will be used for an extended period, or use an unused battery.

Change the battery pack

Battery charge is insufficient to operate the camera. Replace the battery immediately.

Battery Handling Precautions

- Use AA-size alkaline or Canon AA-size NiMH batteries (sold separately) only.
 - While it is possible to use AA-size nickel-cadmium batteries, performance is unreliable and their use is not recommended.
- The operating time of the batteries you purchase may not be as long as the batteries that came with the camera.
 The performance of alkaline batteries may differ according to brand.
- If you are using the camera in cold areas or for a long time, we recommend using Canon's AA-size NiMH Battery Kit (sold separately).
 - Camera operating time may shorten at low temperatures when alkaline batteries are used. Also due to their specifications, alkaline batteries may expire faster than NiMH batteries.
- Never mix new batteries together with batteries that have been used in other devices.
 - The partially used batteries may leak.
- Be careful to load the batteries with their positive (⊕) and negative (⊝) ends in the right direction.
- Never mix batteries of different types or from different manufacturers. All two batteries should be identical.

 Before inserting the batteries, wipe the battery terminals well with a dry cloth.

Oil from one's skin or other dirt may cause a considerable reduction in the number of recordable images or reduce usage time.

 Battery performance deteriorates at low temperatures, the battery icon will display.

If you are using the camera in cold areas and batteries are running down faster than they should, you may be able to restore performance by placing batteries in an inner pocket to warm them up prior to use.

- Be careful that you don't put the batteries into a pocket together with a metal key chain or other metallic objects, as these objects may cause batteries to short-circuit.
- If you do not plan to use the camera for a long time, remove the batteries from the camera and store them in a safe place.
 Batteries may leak and damage the camera if left installed during prolonged periods of non-use.

♠ Warning

Never use damaged batteries or batteries whose outer seal is completely or partially missing or peeled off, as there is risk that such batteries may leak, overheat, or burst.

Always check the seals on store-bought batteries before loading them, as some batteries may come with defective seals. Do not use batteries with defective seals.

Never use batteries that look like this.



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



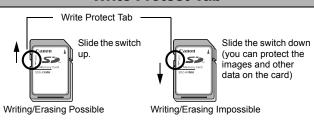
The positive electrode (plus terminal) is flat.



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

Handling the Memory Card

SD Memory Card (Sold Separately) Write Protect Tab



Cautions When Handling

- Memory cards are high-precision electronic devices. Do not bend them, apply force to them, or subject them to shocks or vibration.
- Do not attempt to disassemble or alter the memory card.
- Do not allow dirt, water or foreign objects to contact the terminals on the back of the card. Do not touch the terminals with your hands or metal objects.
- Do not peel away the original label on the memory card or cover it with another label or sticker.
- When writing on the memory card, do not use a pencil or ball-point pen. Only use a soft point pen (e.g. felt-tip pen).
- Do not use or store memory cards in the following locations.
 - · Locations subject to dust or sand
 - · Locations subject to high humidity and high temperatures
- Since some or all of the data recorded on the memory card may be corrupted or erased by electrical noise, static electricity or card/camera malfunction, making a backup copy of important data is recommended.

Formatting

- Please note that formatting (initializing) an memory card erases all data, including protected images and other file types.
- You are recommended to use memory cards that have been formatted in your camera.
 - The card supplied with the camera may be used without further formatting.
 - When the camera is malfunctioning, a corrupted memory card might be the cause. Reformatting the memory card may solve the problem.
 - When a non-Canon brand memory card is malfunctioning, reformatting it may solve the problem.
 - Memory cards formatted in other cameras, computers, or peripheral devices may not operate correctly in this camera.
 When that happens, reformat the memory card with this camera.
- If formatting in the camera does not work properly, turn the camera off and re-insert the memory card. Then turn the camera back on and format again.

Replacing the Date Battery

If the LCD monitor displays the Date/Time menu when you turn on the camera, this means that the date battery has run down and the clock has stopped running. Please purchase a replacement battery (lithium coin battery CR1220) and install it as follows.

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



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

- 1 Be sure that the camera is turned off.
- Remove the battery holder.



3 Pull out the battery in the direction as shown with arrow.



- Insert the new date battery into the holder with the negative end (-) facing up.
- 5 Replace the date battery holder back into its original position.
- Set the date and time when the Date/Time menu is displayed on the LCD monitor (Basic Guide p. 2).



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

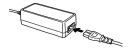
Using an AC Adapter Kit (Sold Separately)

It is best to power the camera with AC Adapter Kit ACK800 (sold separately) when you are using it for long periods of time or connecting it to a computer.

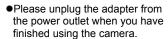


Turn the camera power off before connecting or disconnecting the compact power adapter.

Connect the power cord to the compact power adapter first and then plug the other end into the power outlet.



2 Open the terminal cover and attach the cord to the DC IN terminal.





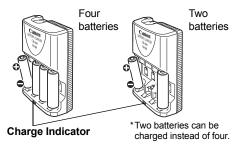


- Please do not attempt to use any AC adapter other than AC Adapter Kit ACK800 with your camera. Use of a different adapter may result in damage to the camera or to the adapter kit.
- Do not connect the AC Adapter Kit ACK800 to any other devices. It could cause smoke and fire, or damage the compact power adapter.

Using the Power Kits (Sold Separately)

Using Rechargeable Batteries (Battery and Charger Kit CBK4-200)

Included are the battery charger and four rechargeable AA-size NiMH (nickel metal hydride) batteries. Charge the batteries as shown below.



The indicator blinks while charging, then remains lit when charging is finished.



Four batteries are supplied with the Battery and Charger Kit CBK4-200, however, only two batteries are used for this camera.



- This charger can be used only to charge Canon AA-size NiMH batteries NB-2AH. Please do not attempt to charge NB-2AH batteries in any other type of charger.
- Do not mix batteries with different purchase dates or different charge states. When recharging batteries from the camera, always recharge both of them at the same time.
- Do not attempt to recharge fully charged batteries, as doing so may reduce or impair battery performance. Also, do not charge batteries for more than 24 consecutive hours.
- Do not recharge batteries in enclosed areas that tend to retain heat.



- Repeatedly recharging batteries before they become fully depleted may cause batteries to lose capacity. Do not recharge the batteries until the LCD monitor displays the "Change the batteries" message.
- Wipe the battery terminals well with a dry cloth in the following situations, as the terminals may be soiled with oil from one's skin or other dirt:
 - If the battery usage time has considerably diminished.
 - If the number of recordable images has considerably diminished
 - When charging the batteries (insert and remove the batteries two or three times before charging)
 - When charging completes in a matter of a few minutes (the battery charger indicator remains lit)
- You may not be able to fully charge the batteries due to their specifications right after purchase or after long periods of non-use. If this happens, use the batteries until their charge is depleted before charging them again. After doing this several times, battery performance will be restored.
- Since storing a fully charged battery for long periods of time (about one year) can shorten its lifecycle or affect performance, you are recommended to use the battery in the camera until it is completely discharged and to store it at normal temperature (0 30 °C (32 86 °F) or less). If you do not use the battery for long periods of time, charge it fully and discharge it fully in the camera at least once a year before returning it to storage.
- If battery usage time is considerably low despite their terminals' being wiped and the battery charger's indicator remaining lit, it is possible that the batteries have reached the end of their lifespan. Switch to different, unused batteries. If you are purchasing new batteries, look for Canon AA-size NiMH NB4-200 (NB-2AH4 set of 4) batteries.
- Leaving batteries in the camera or charger may damage it causing battery leakage. Remove batteries from the camera or charger and store in a dry cool location when not in use.



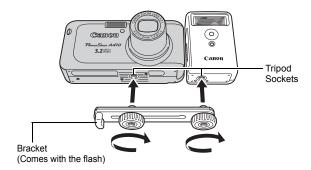
- It takes approximately 1 hour 50 minutes when two batteries are loaded one at each end of the charger and approximately 4 hours 10 minutes with four for the charger to fully recharge them (as determined by testing at Canon facilities). Please do not charge batteries in areas where the temperature is outside the range of 0 to 35 °C (32 to 95 °F).
- Charging time varies according to ambient temperature and to the batteries' initial charge state.
- The battery charger may emit noise while charging. This is not a malfunction.
- You can also use Battery/Charger Kit CBK100. For Battery/ Charger Kit CBK100, use Canon AA-size NiMH batteries NB-1AH

Using an Externally Mounted Flash (Sold Separately)

High-Power Flash HF-DC1

This flash is used to supplement the camera's built-in flash when the subject is too far away for proper illumination. Use the following procedures to affix the camera and High-Power Flash to the supporting bracket.

Please read the instructions accompanying the flash along with this explanation.





- The flash charge time will lengthen as the battery charge gets weaker. Always set the power/mode switch to [OFF] when you finish using the flash.
- Be careful not to touch the flash window or sensor windows with your fingers while the flash is in use.
- The flash may fire if another flash is being used in close proximity.
- The High-Power Flash may not fire outdoors in daylight or when there are no reflective items.
- For continuous shooting, although the flash fires for the first shot, it does not fire for subsequent shots.
- Fasten the attachment screws securely so that they do not loosen. Failure to do so may lead to the dropping of the camera and flash resulting in damage to both.



- Before attaching the bracket to the flash, check that the lithium battery (CR123A or DL123) is installed.
- To illuminate the subjects properly, install the flash so that it is up against the side of the camera and parallel with the camera's front panel.
- A tripod can be used even when the flash is attached.

Batteries

Charge becomes Severely Limited

If the battery usage time has considerably diminished, wipe the battery terminals well with a dry cloth. The terminals may be soiled with oil from one's skin or other dirt.

●Usage in Cold Temperatures (Less than 0°C/32°F)

Get a spare generic lithium ion battery (CR123A or DL123). You are recommended to place the spare battery in your pocket to warm it up before switching it for the battery in the flash.

Non-Use over Extended Periods

Leaving batteries in the High-Power Flash could allow the battery fluid to leak, damaging the product. Remove the batteries from the High-Power Flash and store them in a cool, dry place.

Camera Care and Maintenance

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

Camera Body

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

Lens

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



Never use synthetic cleansers on the camera body or lens. If dirt remains, contact the closest Canon Customer Support Help Desk as listed on rear of the European Warranty System (EWS) booklet.

Viewfinder and LCD Monitor

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



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

Specifications

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

PowerShot A410

	(W): wide angle (T): telephoto		
Camera Effective Pixels	Approx. 3.2 million		
Image Sensor	1/3.2-inch type CCD (Total number of pixels: Approx. 3.3 million)		
Lens	5.4 (W) – 17.3 (T) mm (35mm film equivalent: 41 (W) – 131 (T) mm) f/2.8 (W) – f/5.1 (T)		
Digital Zoom	Approx. 3.2x (Up to approx. 10x in combination with the optical zoom)		
Optical Viewfinder	Real-image zoom viewfinder		
LCD Monitor	1.5-inch, low-temperature polycrystalline silicon TFT color LCD, approx. 120,000 pixels (Picture coverage 100%)		
AF System	TTL autofocus Focusing frame: 5-point AiAF/1-point AF (fixed to center)		
Shooting Distance (From the front of the lens)	Normal: 47 cm (1.5 ft.) – infinity Macro: 5 – 47 cm (W)/25 – 47 cm (T) (2.0 in. – 1.5 ft. (W)/9.8 in. – 1.5 ft. (T)) Super Macro: 1.5 – 5 cm (W) (0.6 in. – 2.0 in) (W) Infinity: 3.0 m (9.8 ft.) – infinity		
Shutter	Mechanical shutter + electronic shutter		
Shutter Speeds	1 – 1/2000 sec. The shutter speed varies according to the shooting mode. Slow shutter speeds of 1/6 sec. or slower operate with noise reduction.		
Metering System	Evaluative, Center-weighted average or Spot (fixed to center)		
Exposure Compensation	± 2 stops in 1/3-stop increments		

ISO Speed	Auto*, ISO 50/100/200 equivalent		
	* Camera automatically sets the optimal speed.		
White Balance	Auto, pre-set (available settings: Day Light, Cloudy, Tungsten, Fluorescent or Fluorescent H)		
	or custom		
Built-in Flash	Auto, auto with red-eye reduction, flash on with red-eye reduction, flash on, flash off, slow synchro		
Flash Range	Normal: 47 cm - 3.0 m (W)/47 cm - 2.0 m (T) (1.5 - 9.8 ft. (W)/1.5 - 6.6 ft. (T)) Macro: 30 - 47 cm (1.0 - 1.5 ft.) (W/T)		
	(When ISO speed is set to AUTO.)		
Shooting Modes (Still images)	Auto, Manual, Super macro*1, My Colors*1, Special Scene*2, Stitch assist*1		
(Movie)	Standard, Compact, My Colors		
	*1 Selectable in Manual mode.		
	*2 Portrait, Night Snapshot, Kids&Pets, Indoor, Foliage, Snow, Beach, Fireworks		
Continuous Shooting	Approx. 2.5 shots/sec. (Large/Fine mode)		
Self-timer	Activates shutter after an approx. 10-sec./		
	approx. 2-sec. delay, Custom Timer		
Recording Media	SD memory card, MultiMediaCard		
File Format	Design rule for camera file system and DPOF compliant		
Data Type (Still images)	Exif 2.2 (JPEG)*1		
(Movies)			
Compression	Superfine, Fine, Normal		
Number of	Large: 2048 x 1536 pixels		
Recording Pixels	Medium 1: 1600 x 1200 pixels		
(Still Images)	Medium 2: 1024 x 768 pixels		
	Small: 640 x 480 pixels		
	Postcard Date Imprint Mode: 1600 x 1200 pixels		
	Recording can continue until the memory card is full* * Using super high-speed memory cards (SDC-512MSH recommended).		

Number of Recording Pixels (Movies)	Standard, My Colors: 640 x 480 pixels (10 frames/sec.) 320 x 240 pixels (20 frames/sec.) Max. Clip Length at one time: 3 minutes Compact: (can record for 3 min.) 160 x 120 pixels (15 frames/sec.) Max. Clip Length at one time: 3 minutes
Playback Modes	Single, Index (9 thumbnail images), Magnified (approx. 10x (max.) in LCD monitor, Auto Play or Movie.
Direct Print	PictBridge compliant, and Canon Direct Print and Bubble Jet Direct compatible
Display Languages	22 languages available for menus and messages (English, German, French, Dutch, Danish, Finnish, Italian, Norwegian, Swedish, Spanish, Simplified Chinese, Russian, Portuguese, Greek, Polish, Czech, Hungarian, Turkish, Traditional Chinese, Korean, Thai and Japanese)
Interface	USB (mini-B), PTP (Picture Transfer Protocol)
Power Source	Two AA alkaline batteries (included in the camera kit) Two AA rechargeable NiMH batteries (NB-2AH) (sold separately) AC Adapter Kit ACK800 (sold separately)
Operating Temperatures	0 – 40 °C (32 – 104 °F)
Operating Humidity	10 – 90%
Dimensions	103 x 51.8 x 40.3 mm (4.1 x 2.0 x 1.6 in.) Values in () do not include the curve on the grip side.
Weight (camera body only)	Approx. 150 g (5.3 oz.)

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

Battery Capacity

	Number of I		
	LCD Monitor ON (Based on the CIPA standard)	LCD Monitor Off	Playback Time
AA Alkaline Batteries (included with the camera)	Approx. 100 images	Approx. 500 images	Approx. 13 hours 20 min.
AA NiMH Battery (NB-2AH) (full charge)	Approx. 400 images	Approx. 1000 images	Approx. 16 hours 40 min.

- The actual figures will vary according to the shooting conditions and settings.
- Movie data is excluded

Test Conditions

Shooting: Normal temperature (23 °C ± 2 °C/73 °F ± 3.6 °F), normal relative humidity (50% ± 20%), alternating max. wide angle and max. telephoto shots at 30 second intervals with the flash fired once every two shots and the camera power turned off after every tenth shot. Power is left off for a sufficient amount of time*, then the power is turned back on and the testing procedure is repeated.

- A Canon-brand memory card is used.
- * Until the battery returns to normal temperature

Playback: Normal temperature (23 °C ± 2 °C/73 °F ± 3.6 °F), normal relative humidity (50% ± 20%), continuous playback at 3 seconds per image.



See Battery Handling Precautions (p. 83).

Memory Cards and Estimated Capacities

* : Card included with the camera

Resolution	Compression	MMC-16M	SDC-128M	SDC-512MSH
L (Large)	S	9	76	295 [*]
2048 x 1536 pixels		16	136	529
		33	269	1041
M1 (Middle 1)	S	14	121	471
1600 x 1200 pixels		26	217	839
		50	411	1590
M2 (Middle 2)	S	25	211	816
1024 x 768 pixels		45	372	1438
		80	652	2518
S (Small)	S	56	460	1777
640 x 480 pixels		88	711	2747
		138	1118	4317
(PostCard Date Imprint Mode) 1600 x 1200 pixels		26	217	839

Capable of smooth continuous shooting (p. 33). This reflects standard shooting criteria established by Canon. Actual results may vary according to the subject and shooting conditions.

Movie

	Resolution		MMC-16M	SDC-128M	SDC-512MSH
Standard	640 x 480 pixels	a	23 sec.	3 min. 10 sec.	12 min. 16 sec.
My Colors	320 x 240 pixels	2	33 sec.	4 min. 29 sec.	17 min. 21 sec.
Compact	160x 120 pixels	1 75	1 min. 47 sec.	14 min. 29 sec.	55 min. 57 sec.

Maximum movie clip length: 3 min. The figures indicate the maximum continuous recording time.

^{*} Smooth continuous shooting only available when card has been formatted with a low level format.

Image Data Sizes (Estimated)

Resolution	Compression						
Nesolution	S						
(2048 x 1536 pixels)	1602 KB	893 KB	455 KB				
M1 (1600 x 1200 pixels)	1002 KB	558 KB	278 KB				
M2 (1024 x 768 pixels)	570 KB	320 KB	170 KB				
s (640 x 480 pixels)	249 KB	150 KB	84 KB				
(1600 x 1200 pixels)	_	558 KB	-				

	Resolution	Frame Rate	File size		
Standard	(640 x 480 pixels)	(Ti)	660 KB/sec.		
My Colors	(320 x 240 pixels)	20	440 KB/sec.		
Compact	(160 x 120 pixels)	Œ	120 KB/sec.		

MultiMediaCard

Interface	Compatible with MultiMediaCard standards
Dimensions	32.0 x 24.0 x 1.4 mm (1.3 x 0.9 x 0.1 in.)
Weight	Approx. 1.5 g (0.05 oz.)

SD Memory Card (Sold Separately)

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

NiMH Battery NB-2AH (Sold Separately)

(Included with the separately sold NiMH NB4-200 or the Battery/ Charger Kit CBK4-200)

Type	Rechargeable nickel metal hydride battery
Nominal Voltage	1.2 V DC
Typical Capacity	2300 mAh (Lowest: 2150 mAh)
Cycle Life	Approx. 300 (estimated)
Operating Temperatures	0 – 35 °C (32 – 95 °F)
Dimensions	Diameter: 14.5 mm (0.6 in.) Length: 50 mm (2.0 in.)
Weight	Approx. 29 g (1.0 oz.)

Battery Charger CB-4AH (Sold Separately)

(Included with the separately sold or the Battery/Charger Kit CBK4-200)

100 – 240 V AC (50/60 Hz) 16 – 21 VA
565 mA ^{*1} , 1275 mA ^{*2}
Approx. 4 hours 10 minutes ^{*1} Approx. 1 hour 50 minutes ^{*2}
0 – 35 °C (32 – 95 °F)
65.0 x 105.0 x 27.5 mm (2.6 x 4.1 x 1.1 in.)
Approx. 95 g (3.4 oz.)

^{*1} To charge four NB-2AH NiMH Batteries

Compact Power Adapter CA-PS800 (Sold Separately) (Included with the separately sold AC Adapter Kit ACK800)

Rated Input	100 – 240 V AC (50/ 60 Hz) 16 VA (100 V) – 26 VA (240 V)
Rated Output	3.15 V DC, 2 A
Operating Temperatures	0 – 40 °C (32 – 104 °F)
Dimensions	42.5 x 104.0 x 31.4 mm (1.7 x 4.1 x 1.2 in.)
Weight	Approx. 180 g (6.3 oz.)

^{*2} To charge two NB-2AH NiMH Batteries loaded one at each end of the battery charger

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Functions Available in Each Shooting Mode

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

Function		Δ		۵	ıM		SCN		
		0	ð	3 Ø-	Ð	므	3 ≥ 8 ≥ ≈ ≈ ≥ ± ±	*	Page
	Large L	0*	0*	0*	0*	△*	0*	-	p. 27 p. 29
	Medium 1 M1	0	0	0	0	Δ	0	-	
Resolution	Medium 2 M2	0	0	0	0	Δ	0	-	
	Small S	0	0	0	0	Δ	0	-	p. 20
	Postcard	0	0	0	0	-	0	_	
	Super Fine s	0	0	0	0	Δ	0	_	
Compression	Fine	0*	0*	0*	0*	△*	0	_	p. 27
	Normal	0	0	0	0	Δ	0	_	
Resolution (Movie)/Frame Rate		-	-	-	-	_		O ⁽¹⁾	p. 29
	Auto \$A	0	0	1	0	-	0	-	Basic p. 8
	Auto with Red-Eye Reduction	0*	0*	1	,	-	0	-	
Flash (2)	On with Red-Eye Reduction	-	-	1	1	-	0	-	
	On 🕏	1	0	-	0	Δ	0	_	
	Off ③	0	0	0*	O ⁽³⁾	△*	0	-	
	Slow Synchro	-	0	-	0	Δ	-	-	
Macro Mod	le 🖫	0	0	-	0	Δ	O ⁽⁴⁾	0	Basic
Infinity Mod	de 🔼	-	0	_	0	Δ	O ⁽⁴⁾	0	p. 9
	Single	o*	°	0*	0*	△*	0*	0*	_
Shooting	Continuous Shooting	ı	0	0	-	-	0	-	p. 33
Method	10-sec. Self-Timer	0	0	0	0	Δ	0	0	
	2-sec. Self-Timer 🚫	0	0	0	0	Δ	0	0	p. 35
	Custom Timer	0	0	0	_	-	0	_	
Date Stamp	0	0	0	0	0	-	0	_	p. 34

Function		Ď M				SCN		T	
		•	ŒM	(\$)	S	민	5 % %	'	Page
Autofocus	Modes	-	0	0	0	-	O ⁽⁴⁾	-	p. 41
AF-assist E	Beam	0	0	0	0	Δ	O ⁽⁵⁾	0	p. 24
Digital Zoo	m	0	0	0	ı	-	0	O ⁽⁶⁾	p. 32
Mataria	Evaluative	-	0*	0*	0*	_	-	-	p. 43
Metering Method	Center-Weighted Average	0	0	0	0	_	_	_	
	Spot	-	0	0	0	-	-	-	
Exposure (Compensation	-	0	0	0 ⁽⁷⁾	Δ	0	-	p. 44
White Bala	nce ⁽⁸⁾	-	0	0	0	Δ	(9)	0	p. 45
Photo Effect		-	0	0	_	Δ	(9)	O ⁽¹⁰⁾	p. 48
ISO Speed		_(9)	O ⁽¹¹⁾	O ⁽¹¹⁾	_(9)	_(9)	(9)	_(9)	p. 54
Grid Lines		0	0	0	0	-	0	0	p. 40

^{*} Default setting O Setting available △ Setting can only be selected for the first image. (Shaded Area): Setting is remembered even when the camera power is shut off.

With the exception of the [Date/Time] and [Language] settings, all the other menu settings and changes made with the camera buttons can be reset to the default values in a single operation (p. 26).

(1) The resolutions and frame rates for the $\frac{1}{12}$ (Movie) mode are as follows.

		'只 g'不	-Έ
Resolution/Frame Rate	640 + 🙃	0*	-
	777 + 1727	0	-
	160 + Ins	-	0

- (2) The default flash setting is Auto with Red-Eye Reduction in the 图 显 M modes, Auto in the 图 modes, and Off in the 图 modes.
 - The flash cannot be set in mode.
 - When the flash fires in A mode, the camera will automatically use Slow Synchro mode.
- (3) In Color Accent and Color Swap modes, the flash is deactivated by default.
- (4) You cannot switch between the Macro/Infinity modes when the camera is in the modes.
- (5) AF cannot be selected in the **modes**.
- (6) Can be set during shooting (only in Standard mode).
- (7) Exposure compensation not available in a modes.
- (8) This cannot be set when the Photo Effect is set to Sepia or B/W.
- (9) Automatically set by the camera.
- (10) The Photo Effect cannot be set in the mode.
- (11) Default setting is ISO 50.

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