

Canon

DIGITAL CAMERA

PowerShor SD450 DIGITAL

Canon

PowerShot SD450

IXUS 55



Before Using the Camera

Shooting

Playback/Erasing

Print/Transfer Settings

Viewing Images on a TV set

Customizing the Camera

Troubleshooting

List of Messages

Advanced

Appendix

Camera User Guide

This guide explains camera features and procedures in detail.







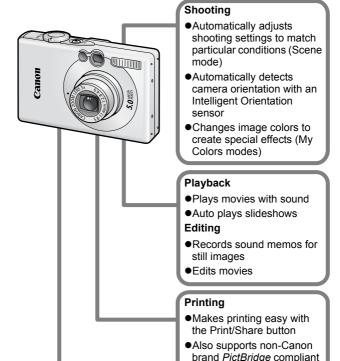






Advanced Camera User Guide

Main Features



Uses of Recorded Images

- Effortlessly transfer them to a computer with the Print/ Share button
- Freely customize the start-up image or start-up sound using the My Camera settings

printers

Conventions Used in this Guide

Icons appearing below titles indicate the modes in which the procedure can be used.

Mode Switch



See Functions Available in Each Shooting Mode (p. 128).

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.

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

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.

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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

This camera's warranty is only effective in the country of sale. If a problem arises while the camera is in use abroad, please convey it back to the country of sale before proceeding with a warranty claim to a Canon Customer Support Help Desk.

For Canon Customer Support contacts, please see the Canon Limited Warranty supplied with your camera.

Camera Body Temperature

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

About the LCD Monitor

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

Video Format

Please set the camera's video signal format to the one used in your region before using it with a TV monitor (p. 89).

Language Setting

Please see the Basic Guide (p. 4) to change the language setting.

Safety Precautions

- •Before using the camera, please ensure that you read the safety precautions described below and in the "Safety Precautions" section of the Basic Camera User Guide. 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. Be sure you fully understand them before reading the rest of the manual.
- 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.
- Wrist strap: Placement of the strap around the child's neck could result in asphyxiation.
- Memory card: Dangerous if accidentally swallowed. 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, benzine, 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 battery to severe impacts that could damage the casing.
- Use only recommended battery and accessories.

Use of battery 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.

- Use only the specified battery charger to charge the battery.
- The battery charger and 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.

 Keep objects that are sensitive to magnetic fields (such as credit cards) away from the speaker of the camera.
 Such items may lose data or stop working.

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.

The battery can run down.

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 A/V OUT (Audio/Video output) Terminal (p. 89)
- 2 DIGITAL Terminal (Basic Guide p. 19)
- 3 Terminal Cover (Basic Guide p. 19)
- 4 Wrist Strap Mount
- 5 Microphone (p. 76)
- 6 AF-assist Beam (p. 28)
- Red-Eye Reduction Lamp (Basic Guide p. 9)
- 8 Self-Timer Lamp (p. 39)
- Viewfinder Window (p. 21)
- 10 Flash (Basic Guide p. 9)
- 1 Lens



The interface cable and AV cable cannot be connected simultaneously.

Attaching the Wrist Strap*



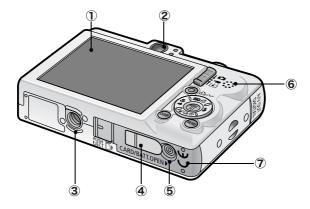
How to Open the Terminal Cover



You can use this toggle to open the terminal cover or memory card slot/battery cover.

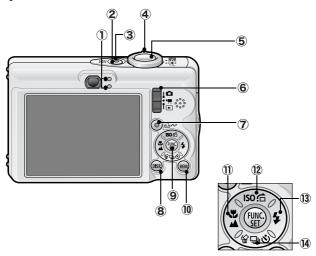
* When carrying the camera by the strap, be careful not to swing the camera or catch it on other items.

Back View



- 1 LCD Monitor (p. 15)
- 2 Viewfinder (p. 21)
- 3 Tripod Socket
- 4 DC Coupler Terminal Cover
- (5) Memory Card Slot/Battery Cover (Basic Guide p. 2)
- 6 Speaker
- Battery Compartment (Memory Card/Battery Compartment)

Operation Panel



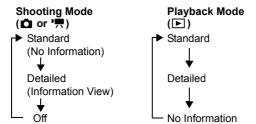
- 1 Indicators (p. 22)
- 2 Power Button (Basic Guide p. 5)
- 3 Power Lamp
- ④ Zoom Lever (p. 69, *Basic Guide* p. 9) Shooting: ∰ (Wide Angle)/ □ (Telephoto) Playback: ➡ (Index)/ Q (Magnify)
- (5) Shutter Button (Basic Guide p. 5)
- 6 Mode Switch (Basic Guide pp. 5, 6)
- ⑦ △៷ (Print/Share) Button (Basic Guide p. 14)
- 8 DISP. (Display) Button (p. 15)
- 9 FUNC./SET (Function/Set) Button (p. 26)
- **10 MENU** Button (p. 27)
- ① **③** (Macro)/ ▲ (Infinity)/ ◆ Button (Basic Guide p. 10)
- ② ISO (ISO Speed)/☆ (Jump)/ ★ Button (pp. 63, 71)
- (3) \$ (Flash)/ → Button (Basic Guide p. 9)
- (Single Image Erase)/ (Continuous) (Self-timer)/
 Button (pp. 37, 39, Basic Guide p. 11)

Before Using the Camera—Basic Operations

Using the LCD Monitor

1 Press (DISP).

•The display mode changes as follows with each press.



 In the shooting modes, the shooting information displays for approximately 6 sec. when a setting is changed, regardless of the selected display mode.



- The LCD monitor on or off setting is retained even after the camera power is turned off.
- The LCD monitor does not shut off in the ☑, ☑, ☑ or '\(\overline{\overl
- The LCD monitor will not switch to the detailed display in the index playback mode (p. 70).

Using the Clock

You can display the current date and time for a 5-second* interval using the following two methods.

* Default setting



Method 1

Hold the FUNC./SET button down while turning on the power.

Method 2

In a shooting mode, hold the FUNC./SET button down.

If you hold the camera horizontally, it displays the time. If you hold it vertically, the time and date display.

However, if you hold the camera vertically and use method 1 to display the date and time, the time will be initially displayed in the same way as when the camera is held horizontally.

- You can change the display color by pressing the ← or → button.
- The clock display will cease when the display interval is over or when you operate the FUNC./SET, MENU or shutter button or the mode switch.
- The clock's display interval can be changed in the (Set up) menu (p. 30).

LCD Monitor Brightness

LCD Monitor Brightness Settings

The brightness of the LCD monitor can be changed in the following two ways.

- Changing Settings Using the Set up Menu (p. 30)
- Changing Settings Using the DISP. Button (Quick-bright LCD Function)

You can set the LCD monitor to the brightest setting regardless of the option selected in the Set up menu by pressing the **DISP** button for more than one second.*

- To restore the previous brightness setting, press the **DISP** button for more than one second again.
- The next time you turn on the camera, the LCD monitor will be at the brightness setting selected in the Set up menu.
- * You cannot change the brightness of the LCD monitor with this function if you have already set it to its highest setting in the Set up menu.

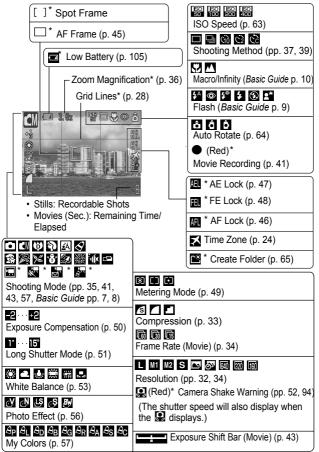
Night Display

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 Information (Shooting mode)



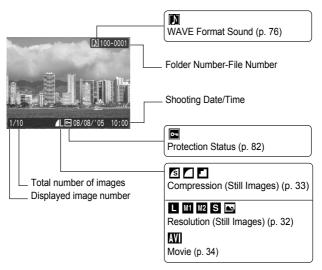
^{*} Appears even if the LCD monitor is set to Standard display.



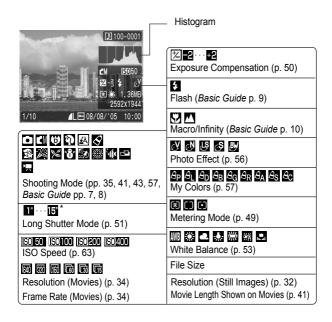
If the indicator blinks orange and the camera shake icon displays, it indicates there is insufficient illumination and a slow shutter speed will be selected. Raise the ISO speed (p. 63) or select a setting other than (flash off), or attach the camera to a tripod or other device.

Playback Information (Playback Mode)

Standard



Detailed



The following information may also be displayed with some images.

) ?	A sound file in a format other than the WAVE format is attached or 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.

Histogram Function

The histogram is a graph that allows you to judge the brightness of the shot image. The greater the bias toward the left in the graph, the darker the image. The greater the bias toward the right, the brighter the image.

If the image is too dark, adjust the exposure compensation to a positive value. Similarly, adjust the exposure compensation to a negative value if the image is too bright (p. 50).

Sample Histograms







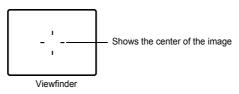
Dark Image

Balanced Image

Bright Image

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 pressed.



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)

Lower Indicator

Yellow: Macro mode/infinity mode/AF lock 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 Connected to a Printer	Powers down approximately 5 minutes after the last control is accessed on the camera.

^{*} This time can be changed.



- The power saving function will not activate during a slide show or while the camera is connected to a computer.
- The power saving function settings can be changed (p. 30).

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.

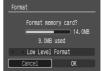
1 ∭ (Set up) Menu▶[Format].

See Menus and Settings (p. 27).



2 Select [OK] and press (FIII).

 To perform a low level format, use the ↑ button to select [Low Level Format] and the ← or → button to add a check mark.



•You can stop formatting a card when [Low Level Format] is selected by pressing the FUNC./SET button. You can still use a card without problem when formatting is halted, but its data will be erased.



Low Level Format

We recommend you select [Low Level Format] when you think that the recording/reading speed of a memory card has dropped. A low level format may require 2 to 3 minutes with some memory cards.

Setting the World Clock

When traveling abroad, you can record images with local dates and times simply by switching the time zone setting if you pre-register the destination time zones. You can enjoy the convenience of not having to switch the Date/Time settings.

Setting the Home/World Time Zones

1 [iii (Set up) Menu ▶ [Time Zone] ▶ (∰).

See Menus and Settings (p. 27).



2 □ ► (SET).



3 Use the ← or → button to select a home time zone



 To set the daylight saving option, use the ↑ or ↑ button to display
 The time will advance by 1 hour.



4 ★ ► (SET)



- - As in Step 3, you can set the daylight saving option.

Time Difference from the Home Time Zone

SET OK

MENU Cancel

Use the ↑ or ↑ button to select [Home/World], and the ← or → button to select []

Switching to the Destination Time Zone

See Menus and Settings (p. 27).



- 2 Use the ← or → button to select ► ...
 - ●To change the destination time zone, use the **FUNC**./**SET** button.





If you change the date and time when the World option is selected, the Home date and time will also change automatically.

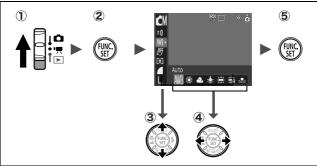
Menus and Settings

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, Set up and My Camera Menus

FUNC. Menu

This menu sets many of the common shooting functions.



- 1) Slide the mode switch to a or .
- 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 o r → button to select an option for the menu item.

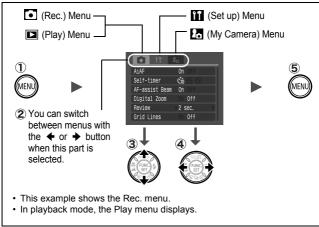
You can select further options with the ${\bf MENU}$ button for some options.

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, Set up and My Camera 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.

 You can also use the zoom lever 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 shown below are the default settings.

Menu Item		Page	Menu Item		Page
•	Shooting Mode	Basic p. 5	\mathcal{B}_{P}	My Colors	p. 57
	Movie Mode	p. 41		Metering Mode	p. 49
±0	Exposure Compensation	p. 50		Compression	p. 33
1"	Long Shutter Mode	p. 51	1 30	Frame Rate (Movie)	p. 34
AWB	White Balance	p. 53		Resolution (Still Image)	p. 32
GEE	Photo Effect	p. 56	640	Resolution (Movie)	p. 34

Rec. Menu

* Default setting

Menu Item	Options	Page/Topic
AiAF	On*/Off	p. 45
Self-timer	10 seconds*/ 2 seconds/ Custom Timer (Delay: 0–10*, 15, 20, 30 sec.) (Shots: 1–3*–10)	p. 39
AF-assist Beam	On*/Off	-
Digital Zoom	On/Off* (On in standard movie mode.)	p. 36
Review	Off/2*-10 seconds/Hold	Basic Guide p. 6
Save Original	On/Off*	p. 59
Grid Lines	On/Off*	You can display grid lines (splits screen into nine areas) to make it easier to judge the horizontal and vertical alignment of a photographic subject and to make composition easier. The lines will not be recorded in the images.
Date Stamp	Off*/Date/Date & Time	p. 38
Long Shutter	On/Off*	p. 51

Stitch Assist	■ Left to right*/■ Right to left	p. 43

Play Menu

	Menu Item	Page		Menu Item	Page
О-п	Protect	p. 82	\$	Slide Show	p. 78
<u>@</u>	Rotate	p. 75	Ф	Print Order	p. 83
₽	Sound Memo	p. 76		Transfer Order	p. 87
/ W	Erase All	p. 82		Transition	p. 76

Set up Menu

* Default setting

Menu Item	Options	Page/Topic
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]. (<i>Basic</i> p. 5)
Volume	Off/1/2*/3/4/5	Adjusts the volume of the start-up sound, operation sound, self-timer sound, shutter sound and playback sound. The volume cannot be adjusted if [Mute] is set to [On].
Start-up Vol.		Adjusts the volume of the start-up sound when the camera is turned on.
Operation Vol.		Adjusts the volume of the operation sound that plays when any button other than the shutter button is pressed.
Selftimer Vol.		Adjusts the volume of the self-timer sound played 2 sec. before the shutter is released.
Shutter Volume		Adjusts the volume of the sound played when the shutter releases. The shutter sound does not play when a movie is recording.
Playback Vol.		Adjusts the volume of movie sounds and sound memos.

LC	D 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.
Po	wer Saving		p. 22
	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.
Tin	ne Zone	Home*/World	p. 24
Da	te/Time		Basic Guide p. 4
Clo	ock Display	0-5*-10 sec./20 sec./30 sec./1 min./2 min./3 min.	p. 16
For	mat		p. 23
File	Numbering	Auto Reset/ Continuous*	p. 66
Cre	eate Folder		p. 65
	Create New Folder	Check mark (On)/ No check mark (Off)	Creates a folder for the next shooting session.
	Auto Create	Off*/Daily/ Monday–Sunday/ Monthly	You can also set a creation time.
Aut	to Rotate	On*/Off	p. 64
Lar	nguage		Basic Guide p. 4
Vid	eo System	NTSC/PAL	p. 89
Re	set All		p. 31

My Camera Menu

Menu Item	Available Settings	Page
Theme	Selects a common theme for each My Camera settings item.	
Start-up Image	Sets the image displayed when the camera power is turned on.	
Start-up Sound	Sets the sound played when the camera power is turned on.	
Operation Sound	Sets the sound played when any button other than the shutter button is pressed.	p. 90
Selftimer Sound	Sets the sound played 2 seconds before the shutter releases in self-timer mode.	
Shutter Sound	Sets the sound played when the shutter button is pressed. There is no shutter sound for movies.	
My Camera Menu Contents	(Off)/ 11 1/2 / 13	

Resetting Settings to Their Default Values

See Menus and Settings (p. 27).



2 Select [OK] and press (SF).



- Settings cannot be reset when the camera is connected to a computer or to a printer.
- The following cannot be reset.
 - Shooting mode
 - The [Time Zone], [Date/Time], [Language] and [Video System] options in the (Set up) menu (p. 30)
 - White balance data recorded with the custom white balance function (p. 54)
 - Colors specified in the [Color Accent] (p. 60) or [Color Swap] (p. 61) modes of My Colors.
 - Newly added My Camera settings (p. 91)

Shooting

Changing the Resolution and Compression (Still Images) **⊡**

1 FUNC. Menu ► * (Resolution)/ * (Compression).

See Menus and Settings (p. 26).

- * Default setting.
- Use the ← or → button to select resolution/compression settings and press the FUNC./SET button.



Approximate Values for Resolutions

Resolution			Purpose		
L (Large)	2592 x 1944 pixels	High	Print larger than A4-size prints* 210 x 297 mm (8.3 x 11.7 in.) Print larger than Letter-size prints* 216 x 279 mm (8.5 x 11 in.)		
M1 (Medium 1)	2048 x 1536 pixels		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.)		
M2 (Medium 2)	1600 x 1200 pixels		Print postcard-size prints 148 x 100 mm (6 x 4 in.) Print L-size prints 119 x 89 mm (4.7 x 3.5 in.)		
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. 38).			

^{*} Paper sizes vary according to region.

Approximate Values for Compression Settings

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



- See Image Data Sizes (Estimated) (p. 118).
 See Memory Cards and Estimated Capacities (p. 117).

Changing Resolutions and Frame Rates (Movies)

Shooting Mode 🗔



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

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

See Menus and Settings (p. 26). *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 (frames/sec.)			
	Resolution	<u>6</u>	30	<u> 175</u>	
Standard	640 x 480 pixels	_	•	0	
My Colors	320 x 240 pixels	-	O	0	
Fast Frame Rate	320 x 240 pixels	0	-	-	
Compact	160 x 120 pixels	_	-	0	

^{*} 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 and frame rate are fixed in the and modes.



- See Image Data Sizes (Estimated) (p. 118).
 See Memory Cards and Estimated Capacities (p. 117).

Magnified Close-Up Shooting (Digital Macro) ⊡

Shooting Mode

You can shoot a subject 3-10 cm (1.2-3.9 in.) from the end of the lens at the maximum wide angle setting. With the digital zoom, the image area is $9 \times 7 \text{ mm} (0.35 \times 0.28 \text{ in.})$ at maximum zoom (approximately 4 times).

1 FUNC. Menu ► 🖸 * (Auto) ► 🖾 (Digital Macro).

See *Menus and Settings* (p. 26). *Default setting.



2 Choose the angle of view with the zoom lever and shoot.

Using the Digital Zoom











You can shoot zoomed images using the combined digital and optical zooms.

- •Stills: zoom up to approximately 12 times
- Movies (Standard): zoom up to approximately 12 times



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

[On]. (Rec.) Menu ▶ [Digital Zoom] ▶ [On].

See Menus and Settings (p. 27).



- 2 Press the zoom lever toward and shoot.
 - •The combined digital and optical zoom setting will display in the LCD monitor
 - •When you press the zoom lever toward 「♣¬, the zoom stops when the lens reaches the maximum optical telephoto setting (when shooting still images).
 - Press the zoom lever toward again to activate the digital zoom and further zoom the image digitally.
 - Press the zoom lever toward it to zoom out.



Images become coarser the more they are digitally zoomed.

Continuous Shooting



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

If you use the recommended memory card*, you can shoot continuously (smooth continuous shooting) at a set shooting interval until the memory card is full (p. 117).

*Recommended Memory Card

Super high speed SDC-512 MSH memory card (sold separately) immediately after a low level format (p. 23).

- 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



Press the \square to display \square .

2 Shoot.

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

To Cancel Continuous Shooting

Press the 🖳 button twice to display 🔳.



- The interval between shots lengthens when the built-in memory of the camera fills.
- If the flash is used, the interval between shots lengthens because the flash must charge.

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.

FUNC. Menu ▶ ■* (Resolution) ▶ ■ (Post Card Date Imprint).

See Menus and Settings (p. 26). *Default setting.

●The resolution is set to M2 (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 (Postcard Date Imprint Mode) is selected.

[(Rec.) Menu [Date Stamp] [Date]/ [Date & Time].

See Menus and Settings (p. 27).

●LCD Monitor Display

□ : [Off]





- Ensure that the camera's date/time is set beforehand (p. 30).
- The date stamp cannot be deleted from the image data once it has been set.



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

1 Press the 🖄 button to display 😭, 🕲 or 🖫.

2 Shoot.

 When the shutter button is pressed fully, the self-timer will activate and the self-timer lamp will blink. When using redeye reduction, the self-timer lamp will blink and then stay lit for the last 2 seconds.

To Cancel the Self-Timer

Press the 🐧 button to display 🔳.



You can change the self-timer sound (p. 31).

Changing the Self-Timer Countdown Time (M/M)

See Menus and Settings (p. 27).

- •The following occurs with each option.
 - 2 sec. before the shutter releases, the selftimer sound and lamp will speed up.



The self-timer sound will play when the shutter button is pressed and the shutter will release 2 sec. later.

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.

See Menus and Settings (p. 27).



2 Change [Delay]/[Shots] ▶ ∰.

- The self-timer sound will behave as follows.
 - The self-timer sound will start 2 sec. before the specified delay for shooting is over.
- (Selay (10) sec.
 (Shots 3 shots)

 (Self) OK (MENU Cancel

Custom Timer

 If multiple shots have been specified for the [Shots] option, the sound will play for the first shot only.



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

- The exposure and white balance are locked at the settings selected for the first shot.
- If the flash is used, the interval between shots lengthens because the flash must charge.
- The interval between shots lengthens when the builtin memory of the camera fills.
- Shooting will automatically cease if the memory card becomes full.

Movie Shooting



Shooting Mode



The following four movie modes are available.

Standard

You can select the resolution and frame rate and record until the memory card is full (when a super high-speed memory card is used. such as the recommended SDC-512MSH). The digital zoom can be used while shooting in this mode. (p. 36)

- Resolution: (640 x 480), (320 x 240)
- Frame Rate: (30 frames/sec.), (15 frames/sec.)
- Maximum Size: 1 GB/movie

Fast Frame Rate

Use this mode to record fast moving subjects, such as in sports photography.

- Resolution: (320 x 240)
- Frame Rate: (60 frames/sec.)
- · Maximum Clip Length: 1 minute

Ų. 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: (160 x 120)
- Frame Rate: (15 frames/sec.)
- Maximum Clip Length: 3 minutes

200 My Colors

You can change image colors and then shoot (p. 57). As with the Standard mode, you can also select the resolution and frame rate and record until the memory card is full (when a super high-speed memory card is used, such as the recommended SDC-512MSH).

- Resolution: (640 x 480), (320 x 240)
- Frame Rate: (30 frames/sec.), (15 frames/sec.)
- Maximum Size: 1 GB/movie

[·] The recording time will vary according to the capacity of the memory card you use (p. 117).

1 FUNC. Menu **► □*** (Standard).

See *Menus and Settings* (p. 26). *Default setting.

- Use the ← or → button to select a movie mode and press the FUNC./SET button.
- In or mode, you can change the resolution and frame rate (p. 34).



2 Shoot.

- Pressing the shutter button halfway automatically sets the exposure, focus and white balance settings.
- Pressing the shutter button fully starts recording video and sound simultaneously.
- During shooting the recording time (in seconds) and [●Rec] 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 built-in memory or memory card become full



- You are recommended to use a memory card that has been formatted in your camera to shoot movies (p. 23).
 The card supplied with the camera may be used without further formatting.
- Be careful of the following while recording.
 - Try not to touch the microphone.
 - Do not press any buttons other than the shutter button.
 The sound that buttons make will be recorded in the movie.
 - The camera will automatically adjust the exposure and white balance to suit the shooting conditions during recording. Please note, however, that the sounds made by the camera automatically adjusting the exposure may also be recorded.
- The focus and optical zoom settings remain fixed for subsequent frames at the values selected for the first frame.



- Before recording, you can set the AE lock (p. 47) and exposure shift.
 - Press the ISO button.
 The exposure will lock (AE lock) and the exposure shift bar will appear in the LCD monitor.
 - Use the ← or → button to adjust the exposure.
 Press the ISO button again to release the setting. Also, the setting will be canceled if you press the MENU button or change the white balance, photo effect or shooting mode settings.
- 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.



See Menus and Settings (p. 27).



2 Select a shooting direction ► (

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



3 Shoot the first image in the sequence.

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



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

- You can retake a shot by pressing the ← or → button and returning to the previously recorded image screen.
- Minor discrepancies in the overlapping portions can be corrected when the images are stitched together.

5 Repeat the procedure for additional images.

- •A sequence may contain up to 26 images.
- Press the MENU button after the last shot.



- You cannot display the images on a TV when shooting in Stitch Assist mode.
- The settings for the first image are applied to the second image onward.



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

Switching between Focusing Modes

Shooting Mode (M) A A A A A A A

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

(No frame)	The camera detects the subject and highlights the A frames, from 9 available points, that it will use to determine the focus.	
		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. 27).





- The focus is locked to the center AF frame when the digital zoom is used.
- The AF frame appears as follows (when the LCD monitor is on) when the shutter button is pressed halfway.
 - Green: Shooting preparations complete
 - Yellow: Focusing difficulty (AiAF set to [Off])

Shooting Hard-to-Focus Subjects (Focus Lock, AF Lock) □ •

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.

Shooting with the Focus Lock

The focus lock can be used in any shooting mode.

- 1 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.

Shooting with the AF Lock

The AF lock can be used in the , , or , or mode.

- 1 Turn on the LCD monitor.
- 2 Aim the camera so that an object at the same focal distance as the main subject is centered in the AF frame.
- 3 Press the shutter button halfway and press the ℤ/≜button.
 - ●The III icon will display and the lower indicator will light yellow.



Re-aim the camera to compose the shot as desired and shoot.

To Release the AF Lock

Press the 💆 🖊 button



- When shooting with the focus lock or AF lock using the LCD monitor, setting [AiAF] to [Off] (p. 28) makes shooting easier since the camera focuses using the center AF frame only.
- The AF lock is convenient because you can let go of the shutter button to compose the image. Moreover, the AF lock is still effective after the picture is taken, allowing you to capture a second image with the same focus.

Locking the Exposure Setting (AE Lock)



You can set the exposure and focus separately. This is effective when the contrast is too strong between the subject and background or when a subject is backlit.



You must set the flash to []. The AE lock cannot be set if the flash fires

- Turn on the LCD monitor.
- Focus on the part of the subject on which you wish to lock the exposure setting.
- Press the shutter button halfway and press the ISO button.
 - •The III icon will display.
- 4 Re-aim the camera to compose the shot as desired and press the shutter button fully.

To Release the AE Lock

Press the ISO button.



- ◆ AE lock can also be set and released in ¹/₇₇ mode (p. 43).
 - You can use the FE lock when using the flash.

Locking the Flash Exposure Setting (FE Lock)

Shooting Mode

You can lock the flash exposure so that the exposure settings are correctly set regardless of the composition of your subject.

- 1 Turn on the LCD monitor.
- Press the \$ button and set it to [3] (flash on).
- 3 Focus on the part of the subject on which you wish to lock the flash exposure setting.
- 4 Press the shutter button halfway and press the ISO button.
 - ●The flash will pre-fire and will display.
- Re-aim the camera to compose the shot as desired and press the shutter button fully.

To Release the FE Lock

Press the ISO button.

Switching between Metering Modes

Shooting Mode M 🗸



FUNC. Menu ▶ 🔯* (Evaluative).

See Menus and Settings (p. 26).

- *Default setting.
- ●Use the ◆ or → button to select the metering mode and press the FUNC./SET button.



Metering Methods

0	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	Averages the light metered from the entire frame, but gives greater weight to the subject matter at the center.	
•	Spot	Meters the area within the spot AE point at the center of the LCD monitor. Use this setting when you want to set the exposure on the subject in the center of the monitor.	

Adjusting the Exposure Compensation Shooting Mode (M 😝 🐧 🖾 🗸 🛠 🛣 🎉 🎆 🍿 (M 🗗

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 ▶ **1** * (Exposure Compensation).

See Menus and Settings (p. 26).

*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 🛂 or 🕾 My Colors mode
- In \(\text{\tinte\text{\tinte\text{\texi}\text{\text{\texi}\text{\text{\text{\texi}\text{\texi}\text{\text{\text{\text{\texi}\text{\texi}\text{\text{\texi}\text{\text{\text{\texi}\tex

Shooting in Long Shutter Mode



Shooting Mode

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

See Menus and Settings (p. 27).



2 FUNC. Menu ➤ 🖽 * (Exposure Compensation) ➤ 📖.

See *Menus and Settings* (p. 26). *Default setting.



- 3 Use the ← or → button to select the shutter speed ► (**).
 - The higher the value, the brighter the image and the lower the value, the darker the image.



To Cancel the Long Shutter Mode

Press the **MENU** button when the Long Shutter FUNC. menu is displayed.



The nature of CCD image sensors is such that noise in the recorded image increases at long shutter speeds. This camera, however, applies special processing to images shot at shutter speeds slower than 1.3 seconds to eliminate the noise, thereby producing high-quality images. A certain amount of processing time, however, may be required before the next image can be shot.



- Use the LCD monitor to confirm that the image was recorded at the desired brightness.
- Please note that camera shake becomes a factor at low shutter speeds. If the camera shake warning appears on the LCD monitor, secure the camera to a tripod before shooting.
- Use of the flash may result in an over-exposed image. If this occurs, shoot with the flash set to .
- The following are unavailable:
 - Exposure Compensation
 - Metering
 - AE Lock
 - FE Lock
 - ISO speed: Auto
 - Flash: Auto, Auto with Red-Eye Reduction

Adjusting the Tone (White Balance) 🖸 🗔

Shooting Mode M S CM - R & S

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

1 FUNC. Menu ► IIII* (Auto).

See *Menus and Settings* (p. 26). *Default setting.

 ◆Use 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 ski		
۵	Tungsten For recording under tungsten and bulb-type 3- wavelength fluorescent lighting		
7/15	Fluorescent	For recording under warm-white, cool-white or warm-white (3-wavelength) fluorescent lighting	
淵	Fluorescent H	For recording under daylight fluorescent, or daylight fluorescent-type 3-wavelength fluorescent lighting	
	Custom	For recording with the optimal white balance data retained in the camera from a white-colored object, such as white paper or cloth	



This setting cannot be adjusted when the so or photo effect is 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 ► IIII* (Auto) ► 🖸 (Custom).

See Menus and Settings (p. 26).





- 2 Aim the camera at a piece of white paper or cloth and press .
 - 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.



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 or off is recommended. If the flash fires when reading the white balance data with the flash set to [42] (auto) or [52] (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 in another shooting mode beforehand.
- The camera will retain the custom white balance setting that you record even if you reset the camera to the default settings (p. 31).

Changing the Photo Effect



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

1 FUNC. Menu **≥ @** * (Effect Off).

See Menus and Settings (p. 26).

*Default setting.

 ◆Use the ◆ or → button to select a photo effect and press the FUNC./SET button.



Photo Effect Settings

OFF.	Effect Off	Records normally with this setting.	
Ŷ	Vivid	Emphasizes the contrast and color saturation to record bold colors.	
Ō	Neutral	Tones down the contrast and color saturation to record neutral hues.	
يل	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 &



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. 28) to [On].

My Colors Settings

Дp	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.	
a_{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. blue subjects, such as the sky or ocean.		
₽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}	SR Vivid Red Use this option to emphasize red tints. It may subjects, such as flowers or cars, more vivid		
θ_{A}	Color Accent	Use this option to have only the color specified in the LCD monitor remain and to transform all others to black and white.	

As	Color Swap Use this option to transform a color specified LCD monitor into another. The specified color only be swapped into one other color, multiple cannot be chosen.	
8c	Custom Color	Use this option to freely adjust the color balance between red, green, blue and skin tones*. It can be used to make subtle adjustments, such as making blue colors more vivid or face colors brighter.

^{*} The skin colors of non-human subjects may also be altered.

1 FUNC. Menu ➤ 🔯 (My Colors: Stills)/🖾 (My Colors: Movies).

See Menus and Settings (p. 26).





Movies

2 FUNC. Menu ► 5 * (Positive Film).

See *Menus and Settings* (p. 26). *Default setting.

 Use the ← or → button to select a My Colors mode.



3 Shoot.

● Ap Al Ap AB AG AR Modes

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

● SA SS Sc Modes

See Setting the Camera to the Color Accent Mode (p. 60).

See Setting the Camera to the Color Swap Mode (p. 61).

See Setting the Camera to a Custom Color Mode (p. 62).

^{*} You may not obtain the expected results depending on the skin color.



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.

1

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

See Menus and Settings (p. 27).

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





When [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 ⊈ (Color Accent) ►

See Menus and Settings (p. 26).

 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).



- 2 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



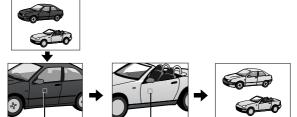
- This completes the setting.
- If you press the MENU button at this point, you will return to the screen where you can select a My Colors mode.



- 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 specified 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.



Desired Color

(After Swapping)

4s (Color Swap) ► (MENU)

Original Color

(Before Swapping)



See Menus and Settings (p. 26).

 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).



- 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
- 3 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.





- This completes the setting.
- If you press the MENU button at this point, you will return to the screen where you can select a 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.

Setting the Camera to a Custom Color Mode

This mode allows you to adjust the color balance for red, green, blue and skin tones.

1

(Custom Color) ► (MEN)



See Menus and Settings (p. 26).



- 2 Use the ↑ or ♦ button to select [Red],
 [Green], [Blue] or
 [Skin Tone] and the ♦
 or ♦ button to adjust
 the color balance.
 - •The altered color will display.



Select Adjust the a color. color balance.





- This completes the setting.
- If you press the MENU button at this point, you will return to the screen where you can select a My Colors mode.

ISO Adjusting the ISO Speed



Shooting Mode



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.



Press the 150 button and switch settings.

- ●Cycle through the SO / SO / SO / SO / Auto ISO speed with each press of the ISO button.
- •Selecting [Auto] sets the sensitivity to produce the optimal image quality.

Setting the Auto Rotate Function Shooting Mode MODE AREA TO THE SHOOT SHOOTING MODE AREA TO THE SHOTING MODE AREA TO THE SHOOTING MODE AREA TO THE SHOOTING MODE ARE THE SHOOTING MODE AREA TO THE SHOOTING MODE ARE THE SHOTING MODE ARE THE SHOOTING MODE ARE THE SHOTING MODE ARE THE SHOTING MODE ARE THE SHOTING MODE AND THE SHOTING MODE ARE THE SHOTING MODE ARE THE SHOTING M

Your camera is equipped with an Intelligent Orientation sensor that detects the orientation of an image shot with the camera held vertically and automatically rotates it to the correct orientation when viewing it in the LCD monitor.

See Menus and Settings (p. 27).

When the Auto Rotate function is set to [On] and the LCD monitor is set to the detailed display mode, the (normal), (right end is down) or (left end is down) will appear in the display.





- This function may not operate correctly when the camera is pointed straight up or down. Check that the arrow is pointing in the right direction and if it is not, then set the Auto Rotate function to [Off].
- Even if the Auto Rotate function is set to [On], the orientation of images downloaded to a computer will depend upon the software used to download the images.



- When the camera is held vertically to shoot, the Intelligent Orientation sensor judges the upper end to be "up" and the lower end to be "down". It then regulates the optimal white balance, exposure and focus for vertical photography. This function operates regardless of the on/off status of the Auto Rotate function.
- When the Auto Rotate function is set to [On] in shooting mode, the orientation of the camera is recorded when the shot is taken.
- When the Auto Rotate function is set to [On] in playback mode, images will be rotated to their correct orientation in the LCD monitor as needed when the camera's orientation is changed (only applies to images shot when the Auto Rotate function was set to [On]).

You can create a new folder at any time and the recorded images will be automatically saved to that folder.

Create New Folder

Create New Folder

Creates a new folder the next time you shoot images. To create an additional folder, insert another check mark.

You can also specify a date and time if you wish to create a new folder using a shooting time after the specified date and time (p. 30).

See Menus and Settings (p. 27).



Creates a folder the next time you shoot.

- - displays in the LCD monitor.
 The symbol will cease to display after the new folder is created.



Setting the Day or Time for Automatic Folder Creation

- 2 Select a day for the [Auto Create] option and a time in the [Time] option ▶ (Image).
 - displays when the specified time arrives. The symbol will cease to display after the new folder is created





Up to 2000 images can be saved into one folder. A new folder will automatically be created when you record more than that number even if you are not creating new folders.



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

1 [ii] (Set up) Menu ▶ [File numbering] ▶ [Auto reset]/[Continuous].

See Menus and Settings (p. 27).



File Number Reset Function

Continuous	A number one higher than the last one recorded is assigned to the next image. This is convenient for managing all your images together on a computer because you avoid file name duplication when changing folders or memory cards.*	
	The image and folder number are reset to the starting value (100-0001).* This is convenient for managing images on a folder-by-folder basis.	

^{*}When a blank memory card is used. If a memory card with recorded data is used, the 7-digit number for the last recorded folder and image is compared with the last one on the card, and the larger of the two is utilized as the basis for new images.

File and Folder Numbers

Recorded images are assigned consecutive file numbers starting with 0001 and ranging up to 9999, while folders are assigned numbers starting with 100 and ranging up to 999. Up to 2,000 images can be saved into a single folder.

	New Folder Created	Memory Card Exchanged for Another
	Memory Card 1	Memory Card 1 Memory Card 2
Continuous	0001	0001
	Memory Card 1	Memory Card 1 Memory Card 2
Auto Reset	0001	DO 100 0001

- •Images may be saved to a new folder when there is insufficient free space even if the total number of images in a folder is less than 2,000 because the following types of image are always saved together into the same folder.
 - Images from continuous shooting
 - Self-timer images (custom)
 - Stitch Assist mode images
 - My Colors images ([Save Original] set to [On])
- Images cannot be played back when the folder numbers are duplicated or image numbers are duplicated within folders.
- Please refer to the Software Starter Guide for information regarding folder structures or image types.

Playback/Erasing

Please also see the Basic Camera User Guide (p. 11).

Magnifying Images

1 Press the zoom lever toward Q.

- SII 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 Displayed Area

2 Use the ←, →, ↑ or → button to move around the image.

- ●If you press the **FUNC./SET** button while in magnified display, the camera switches to image advance mode and SET 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 is canceled 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 Press the zoom lever toward **2**.

- Up to nine images can be viewed at once.
- Use the ♠, ♠, ♠ or ♥ button to change the image selection.

Selected Image



Movie

Switching between Sets of Nine Images

The jump bar will display if you press the zoom lever toward "" while in index playback and you can switch the display between sets of nine images.

- Use the ← or → button to move to the previous or next set of nine images.
- Hold the FUNC./SET button down and press the ← or → button to jump to the first or last set.



Jump Bar

To Return to Single Image Playback

Press the zoom lever toward Q.

When you have many images recorded onto a memory card, it is handy to use the five search keys below to jump over images to find the object of your search.

Ti	Jump 10 Images	Jumps over 10 images at a time.
100	Jump 100 Images	Jumps over 100 images at a time.
<u>@</u>	Jump Shot Date	Jumps to the first image of each shooting date.
Ç	Jump to Movie	Jumps to a movie.
C	Jump to Folder	Displays the first image in each folder.

1 In single image playback mode, press the 合 button.

- The camera will switch to jump search mode.
- The screen sample will vary slightly according to the search key.



Location of image currently being displayed.

Number of images matching search key.

2 Use the ↑ or ♦ button to select a search key and press the ← or → button.

To Return to Single Image Playback Press the MENU button.

Viewing Movies



Movies cannot be played in the index playback mode.

1 Display a movie and press (NIC).

•Images with a ■ icon are movies.



Movie Control Panel
Volume Level

(Adjust with the ♠
or ♣ button)

2 Select **□** (Play) and press (SE).

- 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

- Ends playback and returns to single image playback
- Print (An icon will display when a printer is connected. See the *Direct Print User Guide* for details.)
- ▶ Play
- Slow Motion Playback (You can use the ◆ button to slow down or the → button to speed up playback.)
- 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. 73)



- Use the television's controls to adjust the volume when playing a movie on a TV set (p. 89).
- The sound cannot be played in slow motion playback.

Editing Movies

You can delete portions of recorded movies.



Movies 1 second or longer before editing can be edited in 1second increments, but those that are protected or less than 1 second long cannot be edited.

- 1 Select (Edit) in the movie control panel and press ((C)).
 - 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 cut point(1).
 - •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 🛞.



Select [New File] or [Overwrite] and press



 [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 a fully charged battery or the separately sold AC Adapter Kit ACK-DC10 (p. 109).

Rotating Images in the Display

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



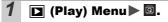




Original

90°

2/0



See Menus and Settings (p. 27).



- 2 Use the ← or → button to select an image to rotate and press (to rotate it.
 - Cycle through the 90°/270°/original orientations with each press of the FUNC./SET button.
 - •This also can be set in the index playback mode.



- 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.

Playback with Transition Effects

You can select the transition effect displayed when switching between images.

The displayed image darkens and the next image gradually brightens until it is displayed.

See Menus and Settings (p. 27).





The transition effect will not display when an image is switched while the camera is reading an image from the memory card.

Attaching Sound Memos to Images

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





- Use the ← or → button to select an image to attach a sound memo to and press ().
 - •The sound memo panel will display.
- 3 Select ☐ (Record) and press (Record)
 - The elapsed time and the remaining time display.
 - Pressing the FUNC./SET button pauses the recording. Pressing it again resumes recording.
 - Up to 60 seconds of recordings can be added to any one image.



Sound Memo Panel

- ده Exit
- Record
- Pause
- Play Frase
- Select [Erase] in the confirmation screen and press the **FUNC./SET** button.
- 0
- You cannot attach sound memos to movies.
- Sound memos for protected images cannot be erased.

Automated Playback (Slide Shows)

Automated Playback of Memory Card Images.

Image settings for slide shows are based on the Digital Print Order Format (DPOF) standard (p. 83).

þ	All Images	Plays all images on a memory card in order.
	Date	Plays images bearing a specified date in order.
	Folder	Plays images in a specified folder in order.
<u>'</u>	Movie	Plays movie files only, in order.
•	Stills	Plays still images only, in order.
*1 – *3	Custom 1–3	Plays the images selected for each slide show, Custom 1, Custom 2 or Custom 3, in order (p. 80).

See Menus and Settings (p. 27).



- 2 Select , ≡, □, □, or 11-8.
 - ●For in or , select the image date or folder to be played back (p. 80).
 - ●For 1, 2 or 3, select the images to be played back (p. 80).
 - ●If you want to add a transition effect to play back images, use the ◆ button to select [Effect]

and choose the type of effect with the ◆ or ◆ button (See the next page).





Select [Start] and press (FUNC.



- The following functions are available during slide shows.
 - Pausing/resuming the slide show: press the FUNC./SET button
- All Images

 Start Set up MANU 15
- Fast forwarding/rewinding the slide show: press the ← or → button (continue to hold the button to switch between images more rapidly)
- Stopping the slide show: press the **MENU** button.

Transition Effects

You can select the transition effect used when one image is replaced by another.



The new image gradually brightens as it moves upward from the bottom.



The new image first appears in a cross shape and gradually expands to display the full image.



Portions of the new image move horizontally, then the image expands to display the full image.



In single image playback mode (when displaying a still image), you can start a slide show from the current image displayed by holding the **FUNC./SET** button while you press the $\[\]$ button. Please note that if you do this while the last image shot is displayed, the slide show will start from the first image using the same date.

Selecting an Image Date or Folder for Playback (\mathbf{H}/\square)

- **1** Select **■** or **□** and press (NIC).
- 2 Use the ← or → button to select the date or folder to be played back and press (IRM).





Date

Folder

Selecting Images for Playback ()

Select only the images that you wish to play back and save them as a slide show (Custom 1, 2 or 3). Up to 998 images can be selected. They will be played back in their order of selection.

- 1 Select 1, 12 or 3 and press
 - ●Only the icon will display at first. When you set , the icon will change to and will display. and will change in the same way when they are set.
- 2 Use the ← or → button to move between images for playback and the ⊕ button to select or deselect them.
 - You can also select images in the index playback mode.
 - Pressing the MENU button cancels the setting.

Check mark indicating selection

Number indicating the selection order





Selecting All Images

- 2 Use the ♠ button to select [Mark all], press the FUNC./SET button.
- 3 Use the → button to select [OK] and press the FUNC./SET button.

To deselect all images, select [Reset].

Adjusting the Play Time and Repeat Settings

Play Time

Sets the duration that each image displays. Choose between 3–10 seconds, 15 seconds and 30 seconds. Displaying time can vary slightly depending on the image.

Repeat

Sets whether the slide show stops when all the slides have been displayed or continues until stopped.

1 Select [Set up] and press (SET)

2 Select [Play Time] or [Repeat] and then the desired option.

> Pressing the MENU button cancels the setting.



Protecting Images

You can protect important images and movies from accidental erasure.

See Menus and Settings (p. 27).



- 2 Select an image to protect and press ...
 - Pressing the FUNC./SET button again cancels the setting.
 - You can also protect images in the index playback mode.



Protection Icon

Erasing All Images



- Note that erased images cannot be recovered. Exercise adequate caution before erasing an image.
- Protected images cannot be erased with this function.
- 1 □ (Play) Menu ► ...

See Menus and Settings (p. 27).



- 2 Select [OK] and press ().
 - •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. 23).

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 ▲ 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.

Single Images

See Menus and Settings (p. 27).



2 Select [Order] and press

 Selecting [Reset] cancels all print settings for the images.



3 Select images for printing.

- Selection methods differ for the Print Type settings (p. 85).
 - ■ (Standard)/■ (Both)

 Select an image, press the

 FUNC./SET button and use the

 or button to select the
 number of print copies (up to
 99).
 - 更 (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

1 □ (Play) Menu ► □.

See Menus and Settings (p. 27).



2 Select [Mark all] and press

- Selecting [Reset] cancels all print settings for the images.
- One copy of every image will be set to print.



3 Select [OK] and press





- 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 according to the file number.
- 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.
Date		Adds the date to the print.
III File No.		Adds the file number to the print.



See Menus and Settings (p. 27).



2 Select [Set up] and press





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



- The Date and File No. settings change according to the Print Type as follows.
 - Index
 [Date] and [File No.] cannot be set to [On] at the same time.
 - Standard or Both
 [Date] and [File No.] can be set to [On] at the same time,
 however, the printable information may vary between
 printers.
- Embedded dates in (Postcard Date Imprint mode)
 (p. 38) print out even when [Date] is set to [Off].
- Dates print in the style specified in the [Date/Time] menu (p. 30).

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.

Single Images

See Menus and Settings (p. 27).



- 2 Select [Order] and press (SET)
 - Selecting [Reset] cancels all transfer order settings.



3 Select an image to transfer and press



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



All the Images on a Memory Card

(Play) Menu ► .

See Menus and Settings (p. 27).



2 Select [Mark all] and press (SST).



•Selecting [Reset] cancels all transfer order settings.



3 Select [OK] and press (FIF).



- Images are transferred in order according to the file number.
- A maximum of 998 images can be selected.

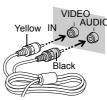
Viewing Images on a TV set

You can use a video-compatible television as a monitor to shoot or play back images when it is connected to the camera with the supplied AV Cable.

- 1 Turn off the Camera and the TV.
- 2 Connect the AV cable to the camera's A/V OUT terminal.
 - Use the toggle on the wrist strap to open the terminal cover (p. 13) and insert the AV cable all the way.



3 Plug the other ends of the AV cable to the VIDEO IN and AUDIO IN jacks on the TV.



- Turn on the TV and switch it to video mode.
- 5 Turn on the camera.



The video output signal can be switched (NTSC or PAL) to accommodate different regional standards (p. 30). The default setting varies between regions.

- NTSC: Japan, U.S.A., Canada, Taiwan and others
- PAL: Europe, Asia (excluding Taiwan), Oceania and others If the video system is set incorrectly, the camera output may not display properly.

Customizing the Camera (My Camera Settings)

My Camera allows you to customize the start-up image and startup, operation, self-timer and shutter sounds. You can change and register these settings, enabling you to customize the camera to suit your own tastes.

Changing My Camera Settings

See Menus and Settings (p. 27).



- 2 Select the contents you wish to set.
 - Select [Theme] to set all to the same settings.



Customizing the Camera (My Camera Settings)

Registering My Camera Settings

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



A computer is required to restore the My Camera settings to the defaults. Use the supplied software (ZoomBrowser EX/ ImageBrowser) to restore the default settings to the camera.

1 Slide the mode switch to ► (playback) ► [3] (My Camera) Menu ► Menu Item to register.

See Menus and Settings (p. 27).



2 Select 2 or 8 and press (SS).



3 Select an image or record a sound.

Start-up Image

Select the image you wish to register and press the **FUNC./SET** button



Start-up, Operation, Self-timer and Shutter Sounds

Select (Record) and press the FUNC./SET button. After recording, select (Register) and press the FUNC./SET button.



- Recording will automatically stop when the recording time elapses.
- To play it, select (Play).
- To exit instead of registering, press (Exit).

4

Select [OK] and press

FUNC

To cancel registering, select [Cancel].





- The following cannot be registered as My Camera settings.
 - Movies
- Sounds recorded with the sound memo function (p. 76)
- The prior setting is erased when a new My Camera setting is added.



See the supplied *Software Starter Guide* for more information on creating and adding to the My Camera data.

Troubleshooting

<u>Camera</u>

Camera will not operate.	
Power is not turned on.	●Press the power button (<i>Basic Guide</i> p. 5).
Memory card slot/battery cover is open.	 Confirm that the memory card slot/ battery cover is securely closed (Basic Guide p. 2).
Insufficient battery voltage ("Change the battery pack" message displays).	 Insert a fully charged battery into the camera (<i>Basic Guide</i> p. 2). Use the AC Adapter Kit ACK-DC10 (sold separately) (p. 109).
Poor contact between camera and battery terminals.	 Polish the terminals with a soft cotton swab before charging or using the battery (p. 105).
Sounds come from	the camera interior.
The camera's horizontal/ vertical orientation was changed.	●The camera's orientation mechanism is operating. There is no malfunction.

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 SD memory card, slide the tab upward (p. 107).

The Date/Time menu appears.

The built-in rechargeable lithium battery charge is low

 Recharge the built-in battery immediately (Basic Guide p. 4).

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.

Display flickers.

Display flickers when shot under fluorescent lighting.

 This is not a camera malfunction (flickering recorded in movies, but not in still images).

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 (p. 63) or set the flash to any setting other than
 (flash off), or secure the camera to something, such as a tripod (Basic Guide p. 9).

A appears.

This displays when using a memory card that has print settings, transfer settings or slide show image selections set by other DPOF-compliant cameras.

 These settings will be overwritten by those set by your camera (p. 83).

Noise displays./Subject's movements are irregular.

Camera automatically lightened the image displayed on the LCD monitor to make it easier to see when shooting in a dark area (p. 17).

•There is no effect on the recorded image.

Shooting

Camera will not record.		
Mode switch is set to ▶ (playback).	●Set the mode switch to ☐ 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. 22).	
Memory card is full.	 Insert a new memory card (Basic Guide p. 2). If required, download the images to a computer and erase them from the memory card to make space. 	
Memory card is not formatted correctly.	Format the memory card (p. 23). 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. 107).	
Image Seen in Viewfinder 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. Use the LCD monitor when taking close-up shots (p. 15).	

Image is blurred or 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. 28). 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) seconds) delays the shutter release for 2 seconds and allows the camera to stop shaking, thus preventing a blurred image (p. 39). 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. 113).	
The subject is hard to focus on.	●Use the focus lock or AF lock to shoot (p. 46).	
Subject in recorde	d image is too dark.	
Insufficient light for shooting.	●Set the flash to 【 (flash on) (<i>Basic Guide</i> p. 9).	
Subject is dark in contrast to the background.	 Set the exposure compensation to a positive (+) setting (p. 50). Use AE lock or use the spot metering function (pp. 47, 49). 	
Subject is too far away for flash to reach.	 Shoot within correct shooting distance of the subject when using the built-in flash (p. 114). Raise the ISO speed and then shoot (p. 63). 	

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 built-in flash (p. 114).
Subject is bright in contrast to the background.	 Set the exposure compensation to a negative (-) setting (p. 50). Use AE lock or use the spot metering function (pp. 47, 49).
Too much light is shining directly into the camera, or is being reflected off the subject.	●Change the shooting angle.
Flash is set to on.	●Set the flash to ③ (flash off) (<i>Basic Guide</i> p. 9).
Image flashes whi	te. 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. 63). ●In 🔼, 🐼, 🏖 and 🚻 modes, the ISO speed increases and noise can appear.
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.

- 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.

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. 23).

Recording images to memory card takes a long time.

Memory card was formatted in another device

 Use a memory card formatted in your camera (p. 23).

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. 2).

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. 23).

"!" displays frequently in the LCD monitor.

If free space in the camera's built-in 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. 23).
 - Lower the resolution or frame rate (p. 34).
 - Use a high-speed memory card (SDC-512MSH, etc.).

Zoom does not operate.

Zoom lever was pressed while shooting in movie mode.

 Operate the zoom before shooting in movie mode (Basic Guide p. 9).
 Note the digital zoom is available while shooting, but only in Standard movie mode (p. 36).

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 supplied 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 and frame rates may momentarily stop playing if played on slow reading memory cards.

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

Movies recorded at the Fast Frame Rate setting and with the video signal set to the PAL format, may play back with a frame rate lower than the recorded one when output to a TV or video. You can play every frame by using the slow motion playback.

•To check the images at the original frame rate, you are recommended to play the movie back on the camera's LCD monitor or on a computer.

Reading images from memory card is slow.

Memory card was formatted in another device.

 Use a memory card formatted in your camera (p. 23).

Battery/Battery Charger

Battery consumed quickly.

Battery life exceeded if battery loses its charge quickly at normal temperature (23 °C/73 °F). Replace the battery with a new one (Basic Guide p. 2).

Battery will not charge.

Battery life exceeded.

 Replace the battery with a new one (Basic Guide p. 2).

TV monitor output

Image not showing	on TV monitor.
Incorrect video system setting.	Set the video system to the appropriate setting, NTSC or PAL, for your TV (p. 30).
Shooting in Stitch Assist mode.	 The output will not appear on a TV in Stitch Assist mode. Cancel the Stitch Assist mode (Basic Guide p. 6).

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. The playback mode is starting up.

No memory card

•You turned on the camera without a memory card installed.

Card locked!

•The SD memory card is write-protected.

Cannot record

 You attempted to shoot an image without a memory card installed, or attempted to attach a sound memo to a movie.

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!

•The image could not be created because there is an image with the same name as the directory that the camera is attempting to create, or the highest possible file number has already been reached. In the Set up menu, set the File Numbering option to [Auto Reset]. Save all the images you wish to retain onto a computer, then reformat the memory card. Please note that formatting will erase all the existing images and other data.

Change the battery pack.

 Battery charge is insufficient to operate the camera. Replace it at once with a charged one or recharge the battery.

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.

Incompatible WAVE format.

 A sound memo cannot be added to this image since the data type of the existing sound memo is incorrect.

Cannot register this image!

 You attempted to register an image recorded in a different camera or a movie as a start-up image.

Protected!

 You attempted to erase or edit a protected image, movie or sound memo.

Too many marks.

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

Cannot complete!

Could not save the print, transfer or slide show 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.

Battery charge is low. Recharge it as soon as possible it will be used for an extended period.

Change the battery pack

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

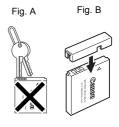
Battery Handling Precautions

- At low temperatures, battery performance may be reduced and the low battery icon () may appear earlier than usual.
 Under these conditions, revive the battery by warming it in a pocket immediately before use.
- However, ensure that there are no metallic items in the pocket that could cause a short circuit, such as a key ring, etc.

The battery may be short circuiting.

 Do not allow any metal objects such as key rings to touch the (⊕) and (⊝) terminals (Fig. A).
 To carry the battery or store it during periods of disuse, always replace the terminal cover (Fig. B).

These conditions can damage the battery.



You may be able to check the charge state depending upon how the terminal cover is attached (Fig. C, D).

Fig. C

Charged Battery
Attach it so the
is visible

Fig. D

Spent Battery
Attach it the opposite way to
Fig. C.

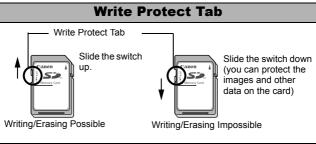
 You are recommended to use it in the camera until it is completely discharged and to store it in an indoor location with low relative humidity and between the temperatures of 0 – 30 °C (32 – 86 °F).

Storing a fully charged battery for long periods of time (about one year) may shorten its life cycle or affect its performance. If you do not use the battery for long periods of time, charge it fully and discharge it fully in the camera about once a year before returning it to storage.

Charging the Battery

- Since this is a lithium-ion battery, you need not completely discharge it before recharging.
 - It can be recharged at any point.
- It takes approximately 90 minutes to fully charge the battery from a fully discharged state (based on Canon's testing standards).
 - Charging it within a temperature range of 5 40 °C (41 104 °F) is recommended.
 - Charge times may vary according to the ambient temperature and the battery's charge state.
- You are advised to charge the battery on the day of use, or one day before, to ensure a full charge.
 - Even charged batteries continue to discharge naturally.
- If the performance of the battery diminishes substantially even when it is fully charged, its life has been exceeded and it should be replaced.

Handling the Memory Card



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 camera or card 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.
- 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.

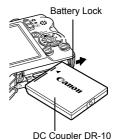
Using an AC Adapter Kit (Sold Separately)

It is best to power the camera with AC Adapter Kit ACK-DC10 (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 AC adapter.

- Connect the power cord to the compact power adapter first and then plug the other end into the power outlet.
- Compact Power Adapter CA-DC10
- 2 Open the memory card slot/battery cover, then insert the DC coupler until it is locked.
 - Slide the memory card slot/battery cover closed.



3 Open the DC coupler terminal cover and attach the cord to the DC terminal.

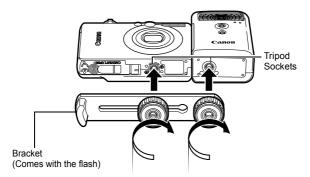


Using an Externally Mounted Flash (Sold Separately)

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 dirty from fingerprints.

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

Get a spare generic lithium 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, benzine, synthetic cleansers or water to clean the camera. These substances may distort or damage the equipment.

Camera Body

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

Lens

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



Never use synthetic cleansers on the camera body or lens. If dirt remains, contact the closest Canon Customer Support Help Desk as listed on the separate Canon Customer Support leaflet.

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 SD450 DIGITAL ELPH/DIGITAL IXUS 55

(W): Max. wide angle (T): Max. telephoto

	(VV). IVIAX. WIGG aligic (1). IVIAX. ICICPHOLO
Camera Effective Pixels	Approx. 5.0 million
Image Sensor	1/2.5-inch CCD (Total number of pixels: Approx. 5.3 million)
Lens	5.8 (W) – 17.4 (T) mm
	(35mm film equivalent: 35 (W) – 105 (T) mm) f/2.8 (W) – f/4.9 (T)
Digital Zoom	Approx. 4.0x (Up to approx. 12x in combination with the optical zoom)
Optical Viewfinder	Real-image zoom viewfinder
LCD Monitor	2.5-inch, low-temperature polycrystalline silicon TFT color LCD, approx. 115,000 pixels (Picture coverage 100%)
AF System	TTL autofocus
	Focusing frame: 9-point AiAF/1-point AF (fixed to center)
Shooting Distance	Normal: 30 cm (1.0 ft.) – infinity
(From the front of	Macro: 3 – 50 cm (W)/30 – 50 cm (T)
the lens)	(1.2 in. – 1.6 ft. (W)/1.0 – 1.6 ft. (T))
	Infinity: 3 m (9.8 ft.) – infinity
Shutter	Mechanical shutter + electronic shutter
Shutter Speeds	15 – 1/1500 sec.
	The shutter speed varies according to the
	shooting mode. Slow shutter speeds of 1.3 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 50/100/200/400 equivalent
	 Camera automatically sets the optimal speed.

White Balance	Auto, pre-set (available settings: Daylight, 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: 50 cm - 3.5 m (1.6 - 12 ft.) (W),	
	50 cm - 2.0 m (1.6 - 6.6 ft.) (T)	
	Macro: 30 – 50 cm (1.0 – 1.6 ft.) (W/T)	
	(When ISO speed is set to AUTO.)	
Shooting Modes (Still images)	Auto, Manual ¹ , Digital macro, Portrait, Night Snapshot, My Colors, Scene Mode ² , Stitch assist ³	
	Long shutter mode available Kids&Pets, Indoor, Foliage, Snow, Beach, Fireworks, Underwater Selectable in Manual mode.	
(Movies)	Standard, Fast Frame Rate, Compact, My Colors	
Continuous	Approx. 2.1 shots/sec. (Large/Fine mode)	
Shooting	7 pprox. 2.1 energes. (Earger ine meas)	
Self-timer	Activates shutter after an approx. 10-sec./	
	approx. 2-sec. delay, Custom Timer	
Recording Media	SD memory card/MultiMediaCard This camera has been tested with memory cards through 2GB. All memory card functions cannot be guaranteed.	
File Format	Design rule for camera file system and DPOF compliant	
Data Type (Still images)	` ,	
(Movies)	AVI (Image data: Motion JPEG; Audio data: WAVE (monaural))	
Compression	Superfine, Fine, Normal	
Number of	Large: 2592 x 1944 pixels	
Recording Pixels	Medium 1: 2048 x 1536 pixels	
(Still Images)	Medium 2: 1600 x 1200 pixels	
	Small: 640 x 480 pixels Postcard Date Imprint Mode:1600 x 1200 pixels	

Number of	Standard, My Colors:
Recording Pixels (Movies)	640 x 480 pixels (30 frames/sec., 15 frames/sec.) 320 x 240 pixels (30 frames/sec., 15 frames/sec.) Recording can continue until the memory card is full* (can record up to a maximum of 1 GB at one time). Fast Frame Rate: (can record for 1 min.) 320 x 240 pixels (60 frames/sec.) Compact: (can record for 3 min.) 160 x 120 pixels (15 frames/sec.) **Using super high-speed memory cards (SDC-512MSH recommended).
Playback Modes	Single (histogram displayable), Index (9 thumbnail images), Magnified (approx. 10x (max.) in LCD monitor, advance or reverse through magnified images possible), Jump (jumps to every tenth or hundredth image, to the first image of those sharing a certain shooting date, to movies, or to the first image in a folder. In index playback mode, it displays 9 images at once.), Sound memos (up to 60 sec.), Slide show or Movie (edit/slow motion play back possible).
Direct Print	PictBridge compliant, and Canon Direct Print and Bubble Jet Direct compatible
My Camera Settings	Start-up image, start-up sound, operation sound, self-timer sound, and shutter sound.
Interface	USB 2.0 Hi-Speed (mini-B), PTP (Picture Transfer Protocol) Audio/Video output (NTSC or PAL selectable, monaural audio)
Power Source	Battery Pack NB-4L (Lithium-ion Rechargeable battery) AC Adapter Kit ACK-DC10
Operating Temperature	0 – 40 °C (32 – 104 °F)
Operating Humidity	10 – 90%
Dimensions	86.0 x 53.5 x 21.6 mm (3.39 x 2.11 x 0.85 in.)
Weight	Approx. 140 g (4.93 oz.) (camera body only)
	·

*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 (Battery Pack NB-4L (Fully charged))

Number of Ir		
LCD Monitor ON (Based on the CIPA standard)	LCD Monitor Off	Playback Time
Approx. 150 images	Approx. 500 images	Approx. 3 hours

- The actual figures will vary according to the shooting conditions and settings.
- Movie data is excluded.
- •At low temperatures, the battery performance may diminish and the low battery icon may appear very rapidly. In these circumstances, the performance can be improved by warming the battery in a pocket before use.

Test Conditions

Shooting: Normal temperature (23 °C \pm 2 °C/73 °F \pm 3.6 °F), normal relative humidity (50% \pm 20%), alternating wide angle end and telephoto end 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. 105).

Memory Cards and Estimated Capacities

: Card included with the camera

Compression	SDC-16M	SDC-128M	SDC-512MSH
S	5	49	190*
	9	87	339
	19	173	671
S	8	76	295
	15	136	529
	30	269	1041
S	13	121	471
	24	217*	839
	46	411	1590
Ś	52	460	1777
	80	711	2747
	127	1118	4317
	24	217*	839
		\$ 5 9 19 19 \$ 8	\$\begin{array}{cccccccccccccccccccccccccccccccccccc

- Capable of smooth continuous shooting (p. 37) (*Only available when card has been formatted with a low level format).
- This reflects standard shooting criteria established by Canon. Actual results may vary according to the subject and shooting conditions.

Movie

	Resolution	Frame Rate	SDC-16M	SDC-128M	SDC-512MSH
	640	[30	6 sec.	1 min. 4 sec.	4 min. 9 sec.
	640 x 480 pixels	15	14 sec.	2 min. 7 sec.	8 min. 14 sec.
ė,	320	[30	20 sec.	3 min. 1 sec.	11 min. 42 sec.
My Colors	320 x 240 pixels	LT5	40 sec.	5 min. 55 sec.	22 min. 53 sec.
Fast Frame Rate	320 x 240 pixels	6	10 sec.	1 min. 32 sec.	5 min. 59 sec.
Compact	160x 120 pixels	Tīs	1 min. 39 sec.	14 min. 29 sec.	55 min. 57 sec.

Maximum movie clip length at 1 min., at 1 min., at 1 min. The figures indicate the maximum continuous recording time.

Image Data Sizes (Estimated)

Resolution	Compression			
resolution	Ø			
L (2592 x 1944 pixels)	2503 KB	1395 KB	695 KB	
M1 (2048 x 1536 pixels)	1602 KB	893 KB	445 KB	
M2 (1600 x 1200 pixels)	1002 KB	558 KB	278 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)	30	1980 KB/sec.
	(040 X 400 pixeis)	1 15	990 KB/sec.
My Colors	(320 x 240 pixels)	<u> </u>	660 KB/sec.
		1 15	330 KB/sec.
Fast Frame Rate	(320 x 240 pixels)	6 6	1320 KB/sec.
Compact	(160 x 120 pixels)	1 15	120 KB/sec.

SD Memory Card

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 (0.07 oz.)

Battery Pack NB-4L

Туре	Lithium-ion Rechargeable battery
Nominal Voltage	3.7 V DC
Typical Capacity	760 mAh
Cycle Life	Approx. 300 times
Operating Temperatures	0 – 40 °C (32 – 104 °F)
Dimensions	35.4 x 40.3 x 5.9 mm (1.4 x 1.6 x 0.23 in.)
Weight	Approx. 17 g (0.6 oz.)

Battery Charger CB-2LV/CB-2LVE

Rated Input	100 – 240 V AC (50/60 Hz) 10 VA (100 V) – 14 VA (240 V) (CB-2LV) 0.1 A (100 V) – 0.06 A (240 V) (CB-2LVE)
Rated Output	4.2 V DC, 0.65 A
Charging Time	Approx. 90 minutes
Operating Temperatures	0 – 40 °C (32 – 104 °F)
Dimensions	53.0 x 86.0 x 19.5 mm (2.1 x 3.4 x 0.77 in.)
Weight	Approx. 60 g (2.1 oz.) (CB-2LV) Approx. 55 g (1.9 oz.) (CB-2LVE) (excluding power cable)

Compact Power Adapter CA-DC10

(Included with the separately sold AC Adapter Kit ACK-DC10)

Rated Input	100 – 240 V AC (50/ 60 Hz) 16 VA (100 V) – 26 VA (240 V)
	. , , ,
Rated Output	4.3 V DC, 1.5 A
Operating Temperatures	0 – 40 °C (32 – 104 °F)
Dimensions	42.6 x 104.4 x 31.4 mm (1.7 x 4.1 x 1.2 in.)
Weight	Approx. 180 g (6.3 oz.)

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Disclaimer

- While every effort has been made to ensure that the information contained in this guide is accurate and complete, no liability can be accepted for any errors or omissions.
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- No part of this guide may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form, by any means, without the prior written permission of Canon.
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FCC Notice

(Digital Camera, Model PC1158)

Tested To Comply
With FCC Standards
FOR HOME OR OFFICE USE

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions;

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for Class B digital devices, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The cable with the ferrite core provided with the digital camera must be used with this equipment in order to comply with Class B limits in Subpart B of Part 15 of the FCC rules.

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

Canon U.S.A. Inc.

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

Canadian Radio Interference Regulations

This Class B digital apparatus complies with Canadian ICES-003. **Réglementation canadienne sur les interférences radio**Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Functions Available in Each Shooting Mode

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

Large	Function			٥						
Resolution Medium 2 Medium			•	- M			% %	-	' =	Page
Medium 2 MZ		Large	O*	O*	O*	O*	o *	Δ*	_	
Resolution Medium 2 Miz S S S S S S S S S		Medium 1	0	O	0	0	0	Δ	-	~ 20
Small S	Docolution	Medium 2	O	0	0	0	0	Δ	_	
Movie	Nesolution	Small	0	0	0	0	0	Δ	-	p.0 i
Super Fine S O O O O O O O O O		Postcard	0	0	-	O	0	ı	-	
Compression Fine		Movie	-	_	-	_	_	-	O (1)	
Normal		Super Fine	O	0	O	0	0	Δ	-	
Frame Rate 0²² р.34 Auto with Red-Eye Reduction	Compression	Fine	o*	o*	o,	o*	o*	Δ*	_	p.33
Auto Auto with Red-Eye Reduction Auto with			0	0	0	O	0	Δ	-	
Auto with Red-Eye Reduction	Frame Rat			_	-		-	-	O ⁽²⁾	p.34
Red-Eye Reduction □			0	0	-	0	•	-	-	
Red-Eye Reduction			o*	o*	_	o*	o	_	_	
Off So O O O O(4) O ∆° − Slow Synchro P − O − O − ∆ − Macro Mode P O O − O O(5) ∆ O Basic Infinity Mode P O O O − O p.10 AF Lock P O O O − O p.47 FE Lock P O O O O − O p.47 FE Lock P O O O O O O O D P.48 Single O O O O O O O O O D </td <td>Flash⁽³⁾</td> <td></td> <td>_</td> <td>-</td> <td>_</td> <td>-</td> <td>0</td> <td>1</td> <td>-</td> <td>Basic p.9</td>	Flash ⁽³⁾		_	-	_	-	0	1	-	Basic p.9
Slow Synchro Slo		On £	- 1	C	-			Δ	_	
Macro Mode ♥ ○ ○ ○ ○ Basic Infinity Mode ● ○ ○ ○ ○ ○ ○ p.10 AF Lock ● ○ ○ ○ ○ ○ ○ ○ p.46 AE Lock ● ○ ○ ○ ○ ○ ○ p.47 FE Lock ● ○ ○ ○ ○ ○ ○ p.47 FE Lock ● ○ ○ ○ ○ ○ ○ p.47 FE Lock ● ○ ○ ○ ○ ○ ○ p.48 Single ● ○		Off 😲	O (0	o*	O ⁽⁴⁾	0	Δ*	_	
Infinity Mode		Slow Synchro	-	O	-	O	-	Δ	_	
AF Lock AE Lock AE Lock BE - ○ ○ ○ ○ ○ 0,46 FE Lock Single Continuous Shooting Method Method AE Lock AE Lock BE - ○ ○ ○ ○ ○ 0,47 FE Lock AE Lock BE - ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	Macro Mod	le S	0	0	-	0	O (5)	Δ	0	Basic
AE Lock	Infinity Mod	de 💆	-	0	-	0	O ⁽⁵⁾	Δ	0	p.10
FE Lock	AF Lock	AF] -	0	O	0	_	-	0	p.46
Shooting Method Single O O O O O O O O O O O O O O O O O O	AE Lock AEL] -	0	0	0	_	-	0	p.47
Continuous Shooting □	FE Lock FEL] -		-		-	ı	-	p.48
10-sec. Self-Timer 10 0 0 0 0 0 0 0 0		Single	o,	o*	o [*]	o*	o *	Δ*	o*	-
Method 2-sec. Self-Timer				0	0	_	0	-	_	p.37
2-sec. Self-Timer ()		10-sec. Self-Timer	0	0	0	0	0	Δ	0	
		2-sec. Self-Timer	0	0	0	0	0	Δ	0	p.39
Date Stamp			0	0	O	_	•	-	_	
		Date Stamp		0	_	0	0	-	_	p.38
Autofocus Modes				_						
AF-assist Beam \bigcirc	AF-assist Beam		0	0	0	0	O ⁽⁷⁾	Δ	0	p.28

				٥							
Function		⊡	4	ф	S	P		,	Page		
Digital Zoo	m	On	0	0	0	-	0	-	O (8)	p.36	
Digital 200	III	Off	o*	o*	_	0	o*	O	O*	p.50	
Matarina	Evaluative		_(10)	o *	o*	o*	_(10)	-	_(10))	
Metering Method	Center-Weighted Average		-	0	0	0	-	ı	ı	p.49	
Motriod	Spot		_	•	•	0	-	_	-		
Exposure (Compensation		_	0	0	O (9)	0	Δ	-	p.50	
Exposure S	Shift		_	-	_	_	-	-	0	p.43	
Long Shutter		_	0	_	_	-	-	-	p.51		
White Balance		-	0	0	0	_(10)	Δ	O	p.53		
Photo Effect		-	0	0	-	(10)	Δ	O (11)	p.56		
ISO Speed		_(10)	O	0	_(10)	_(10)	_(10)	_(10)	p.63		
Auto Rotate		0	0	0	0	0	Δ	-	p.64		
Grid Lines		0	0	0	O	0	-	0	p.28		

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

With the exception of the [Time Zone], [Date/Time], [Language] and [Video System] settings, all the other menu settings and changes made with the camera buttons can be reset to the default values in a single operation (p. 31).

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

	F	Resolutio	Frame Rate			
	640	320	160	6 6	<u>[30</u>	T 5
'🗔 👸 🦳	o*	0	-	-	o*	0
	_	0	_	0	-	-
⊠()	_	-	0	_	_	O

- (3) The default flash setting is Auto with Red-Eye Reduction in the \(\bar{1} \) \(\
 - The flash cannot be set in mode.
 - When the flash fires in mode, the camera will automatically use Slow Synchro mode.
- (4) The flash is set by default not to fire in the \mathcal{G}_A and \mathcal{G}_S modes.
- (5) You cannot switch between the Macro/Infinity modes when the camera is in the modes.
- (6) AF cannot be selected in the modes.
- (7) The AF-assist Beam cannot be set in mode.(8) Can even be set during shooting (Standard only).
- (9) Exposure compensation not available in A or A modes.
- (10) Automatically set by the camera.
- (11) The Photo Effect cannot be set in the **mode**.