Canon

PowerShot SD970 IS DIGITAL DIGITAL ELPH IXUS 990 IS

Camera User Guide



ENGLISH



- Make sure you read this guide before using the camera.
- Store this guide safely so that you can use it in the future.

Checking the Package Contents

Check if the following items are included in your camera package. If anything is missing, contact the retailer from which you purchased the camera.





Battery Pack NB-5L (with Terminal Cover)



Battery Charger CB-2LX/CB-2LXE



IFC-400PCU



AV Cable AVC-DC400



WS-DC7



Camera User Guide (This Guide)







Warranty Card



"Canon Customer Support" Leaflet



Also refer to the PDF manuals on the CD-ROM. After installation, shortcut icons appear on the desktop. If the software installation fails, you can find the manuals in the Readme folder on the CD-ROM.

Personal Printing Guide

Read when you want to connect the camera to a printer and print.

Software Starter Guide

Read when you want to connect the camera to a computer.

 Detailed user guides (PDF format) for the included ZoomBrowser EX and ImageBrowser programs are available on the Canon website (English only):

http://web.canon.jp/imaging/information-e.html



- · A memory card is not included.
- Adobe Reader is required to view the PDF manuals.

Read This First

Test Shots

Take some initial test shots and play them back to make sure the images were recorded 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

The images recorded with this camera are intended for personal use. Do not record images that infringe upon copyright laws without the prior permission of the copyright holder. 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 there is a problem with the camera while abroad, please return it 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 customer support list supplied with your camera.

LCD Monitor

The LCD monitor is produced with extremely high-precision manufacturing techniques. More than 99.99% of the pixels operate to specification, but occasionally non-performing pixels may appear as bright or dark dots. This is not a malfunction and has no effect on the recorded image.

Camera Body Temperature

Please take care when operating the camera for an extended period as the camera body may become warm. This is not a malfunction.

Memory Cards

The various types of memory cards that can be used in this camera are collectively referred to as memory cards in this guide.

For CA, USA only

Included lithium battery contains Perchlorate Material - special handling may apply.

See www.dtsc.ca.gov/hazardouswaste/perchlorate/ for details.

What Do You Want to Do?

Shoot

Shoot, leaving it to the camera to make settings		24
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Take good people shots

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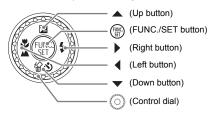
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Conventions Used in this Guide

- Icons are used in the text to represent the camera buttons and switches.
- Language that displays on the screen appears inside [] (square brackets).
- The directional buttons, control dial, and FUNC./SET button are represented by the following icons.



- Troubleshooting tips.
- - (1): Things you should be careful about.
- Supplemental information.
 - (p. xx): Reference pages. "xx" stands for page number.
- This chapter assumes all functions are at their default settings.

Safety Precautions

- Before using the camera, please ensure that you read the safety precautions described below. Always ensure that the camera is operated correctly.
- The safety precautions noted on the following pages are intended to prevent injuries to yourself and other persons, or damage to the equipment.
- Be sure to also check the guides included with any separately sold accessories you use.

Warning Denotes the possibility of serious injury or death.

Caution Denotes the possibility of injury.

Caution Denotes the possibility of damage to the equipment.

A Warning

Camera

- Do not trigger the flash in close proximity to human eyes.
 Exposure to the intense light produced by the flash may damage eyesight. In particular, remain at least one meter (39 inches) away from infants when using the flash.
- Store this equipment out of the reach of children and infants.
 Strap: Putting the strap around a child's neck could result in asphyxiation.
 Memory card, day/date battery: 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 injury, do not touch the interior of the camera if it has been dropped or otherwise damaged.
- Stop operating the camera immediately if it emits smoke, a strange smell, or otherwise behaves abnormally.
- Do not use organic solvents such as alcohol, benzine, or thinner to clean the equipment.
- Do not allow liquids or foreign objects to enter the camera.
 This could result in electrical shock or fire.
 - If liquid or foreign objects come into contact with the camera interior, immediately turn the camera power off and remove the battery.
- Use only recommended power sources.
 Using other power sources could result in fire or electrical shock.

Battery, Battery Charger

- Use only recommended batteries.
- Do not place the battery near or in direct flame.
- Do not let the battery come into contact with water (e.g. sea water) or other liquids.
- Do not attempt to disassemble, alter or apply heat to the battery.
- Avoid dropping or subjecting the battery to severe impacts. This 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 contacts these substances, immediately flush with water and seek medical assistance. If the battery charger becomes wet, unplug it from the outlet and consult your camera distributor or the closest Canon Customer Support Help Desk.
- Use only the specified battery charger to charge the battery.
- Do not cut, damage, alter or place heavy items on the power cord.
- Unplug the power cord periodically and wipe away any dust and dirt that has collected on the plug, the exterior of the power outlet, and the surrounding area.
- Do not handle the power cord with wet hands. This could result in electrical shock or fire.

Other Warnings

 Do not play the supplied CD-ROM(s) in any CD player that does not support data CD-ROMs.

Playing the CD-ROM(s) in an audio CD player (music player) could damage the speakers. It is also possible to suffer hearing loss from listening with headphones to the loud sounds of a CD-ROM played on a music CD player.

Caution

- Be careful not to bang the camera or subject it to strong impacts or shocks when hanging it by the strap.
- Be careful not to bump or push strongly on the lens. This could lead to injury or damage the camera.
- Do not use the equipment in a manner that exceeds the rated capacity of the electrical outlet or wiring accessories. Do not use if the power cord or plug are damaged, or not fully plugged into the outlet. This could result in electrical shock or fire.
- Avoid using, placing or storing the camera in the following places.
 - Places subject to strong sunlight.
 - Places subject to temperatures above 40 °C (104 °F).
 - Humid or dusty areas.

These could cause leakage, overheating or an explosion, resulting in fire, burns or other injuries. High temperatures may also cause deformation of the casing.

- Do not allow dirt or metal objects (such as pins or keys) to contact the charger terminals or plug.
 - This could result in electrical shock, fire or other damage.
- Playing back for a long time may cause feelings of discomfort.
- When using the flash, be careful not to cover it with your fingers or clothing.
 This could result in burns or damage to the flash.

Caution

- Do not aim the camera at bright light sources (the sun, etc.).
 Doing so may cause malfunctions or damage the image sensor (CCD).
- When using the camera on a beach or at a windy location, be careful not to allow dust or sand to enter the camera.
 This may cause the camera to malfunction.
- In regular use, small amounts of smoke may be emitted from the flash. This is due to the high intensity of the flash burning dust and foreign materials stuck to the front of the unit. Please use a cotton swab to remove dirt, dust or other foreign matter from the flash to prevent heat build-up and damage to the unit.
- Unplug the battery charger from the power outlet after recharging is complete, or when you are not using it.
 Do not place anything, such as cloth, on top of the battery charger while it is
- charging.

 Leaving the unit plugged in for a long period of time may cause it to overheat and distort, resulting in fire.
- Remove and store the battery when you are not using the camera.
 If the battery is left inside the camera, damage caused by leakage may occur.
- Before you discard batteries, cover the terminals with tape or other insulators.
 Contacting other metal materials in waste containers may lead to fire or explosions.
- Keep the battery out of the reach of pets.
 If the battery is bitten, this could cause leakage, overheating or an explosion, resulting in fire, burns or other injuries.
- Do not sit in a chair with the camera in your pocket.
 Doing so may cause malfunctions or damage the LCD monitor.

Safety Precautions

- When putting the camera in your bag, ensure that hard objects do not come into contact with the LCD monitor.
- Do not attach accessories to the strap.
 If this occurs, it may cause malfunctions or damage the LCD monitor.





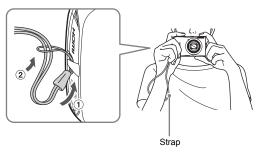


Getting Started

This chapter explains preparations before shooting, how to shoot in mode, and then how to view, erase and print the images you take. The latter part of this chapter explains how to shoot and view movies and transfer images to a computer.

Attaching the Strap/Holding the Camera

- Attach the included strap and place it around your wrist to avoid dropping the camera during use.
- Keep your arms tight against your body while holding the camera firmly by the sides. Be sure that your fingers do not block the flash.



Charging the Battery

Use the included charger to charge the battery.



Remove the cover.



Insert the battery.



Charge the battery.

- For CB-2LX: Flip out the plug ① and plug the charger into a power outlet ②.
- For CB-2LXE: Plug the power cord into the charger, then plug the other end into a power outlet.
- The charge lamp lights red and charging starts.
- The charge lamp will light green when charging has finished. Charging takes approx. 2 hours and 5 minutes.



Remove the battery.

 Unplug the battery charger from the power outlet, then remove the battery by sliding it in (1) and up (2).





To protect the battery and prolong its life, do not charge it for longer than 24 hours continuously.

Approximate Number of Shots That Can Be Taken

Number of shots	270	
Playback Time (Hours)	6 hours	

- The number of shots that can be taken is based on the Camera & Imaging Products Association (CIPA) measurement standard.
- · Under some shooting conditions, fewer shots can be taken.

Battery Charge Indicator

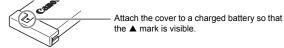
An icon or message will appear on the screen indicating the battery's charge state.

Display	Summary
•774	Good.
• 📶	Slightly depleted, but sufficient.
(Blinking red)	Nearly depleted.
"Change the battery pack."	Depleted. Recharge the battery.

Ö

Using the battery and charger effectively

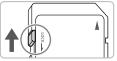
Charge the battery on the day, or the day before, it will be used.
 Charged batteries continue to discharge naturally even if they are not used.



- How to store the battery for long periods.
 - Deplete and remove the battery from the camera. Attach the terminal cover and store the battery. Storing a battery for long periods of time (about a year) without depleting it may shorten its life span or affect its performance.
- The battery charger can also be used when abroad.
 - The charger can be used in regions that have 100-240 V (50/60 Hz) AC power. If the plug does not fit the outlet, use a commercially available plug adapter. Do not use devices, such as electrical transformers for foreign travel, because they will cause malfunctions.
- The battery may develop a bulge.
 - This is a normal characteristic of the battery and does not indicate a problem. However, if the battery bulges to the point where it will no longer fit into the camera, please contact a Canon Customer Support Help Desk.
- If the battery is quickly depleted even after charging, it has reached the end of its life span.
 - Purchase a new battery.

Inserting the Battery and Memory Card

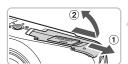
Insert the included battery and a memory card into the camera.





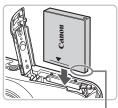
Check the card's write-protect tab.

If the memory card has a write-protect tab, you will not be able to record images if the tab is in the locked position. Slide the tab up until you hear a click.



Open the cover.

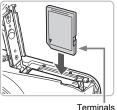
Slide the cover 1, and open it 2.



Insert the battery.

- Insert the battery as shown until it locks into place with a click.
- Be sure to insert the battery in the correct direction or it will not properly lock into place.

Terminals



J

Insert the memory card.

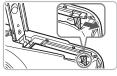
- Insert the memory card as shown until it locks into place with a click.
- Be sure the memory card is oriented correctly. Inserting the memory card in the wrong direction could damage the camera.





 Close the cover ①, and slide it ② until it locks into place with a click.

Removing the Battery and Memory Card



Remove the battery.

- Open the cover and press the battery lock in the direction of the arrow.
- The battery will pop up.



Remove the memory card.

- Push the memory card in until you hear a click, then slowly release it.
- The memory card will pop up.

Approximate Number of Shots per Memory Card

Memory Card	2 GB	8 GB
Number of shots	626	2505

- Values are based on the default settings.
- The number of shots that can be taken will vary depending on camera settings, the subject and the memory card used.



Can you check the number of shots that can be taken?

You can check the number of shots that can be taken when the camera is in a Shooting Mode (p. 24).

Number of shots that can be taken



Compatible Memory Cards

- SD memory cards
- SDHC memory cards
- MultiMediaCards
- MMCplus memory cards
- HC MMCplus memory cards



What is the write-protect tab?

SD and SDHC memory cards have a write-protect tab. If this tab is in the locked position, [Card locked!] will appear on the screen and you will not be able to take or erase images.

Setting the Date and Time

The Date/Time settings screen will appear the first time the camera is turned on. Since the dates and times recorded into your images are based on these settings, be sure to set them.







Turn on the camera.

Press the power button.

- The Date/Time screen will appear.
- Set the date and time.
 - Press the \(\bullet\) buttons to select an option.
 - Press the ▲▼ buttons or turn the (○) dial to set a value.





Make the setting.

- Press the (button.
- Once the date and time have been set. the Date/Time screen will close
- Pressing the power button will turn off the camera

Reappearing Date/Time screen

Set the correct date and time. If you have not set the date and time, the Date/ Time screen will appear each time you turn on the camera.



Daylight saving time settings

If you select \not in Step 2 and press the $\triangle \checkmark$ buttons or turn the \bigcirc dial and select . vou will set the time to daylight savings (1 hour ahead).

Changing the Date and Time

You can change the current date and time settings.



Display the menus.

Press the MENU button.



Select [Date/Time] in the ↑ † tab.

- Press the ◆ buttons to select the *† tab.
- Press the ▲▼ buttons or turn the dial to select [Date/Time], then press the
 ⊕ button.





Change the date and time.

- Follow Steps 2 and 3 on p. 19 to adjust the setting.
- To close the menus, press the MENU button.

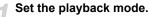
Date/Time battery

- The camera has a built-in date/time battery (backup battery) that allows the date/time settings to be retained about three weeks after the battery pack has been removed.
- By inserting a charged battery or connecting an AC adapter kit (sold separately, p. 40) the date/time battery can be charged in about 4 hours even if the camera is not turned on.
- If the date/time battery is depleted, the Date/Time menu will appear when you turn the camera on. Follow the steps on p. 19 to set the date and time.

Setting the Display Language

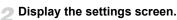
You can change the language displayed in the LCD monitor menus and messages.





Press the button.





Press and hold the button 1, then immediately press the MENU button 2.



Set the display language.

- Press the ▲▼◀▶ buttons or turn the Odial to select a language, then press the button.
- Once the display language has been set, the language menu will close.



What if the clock appears when the (button is pressed?

The clock will display if too much time passes between pressing the $\textcircled{\textcircled{m}}$ button and the **MENU** button in Step 2. If the clock appears, press the $\textcircled{\textcircled{m}}$ button to remove the clock and repeat Step 2.



You can also change the display language by pressing the **MENU** button, selecting the **††** tab, and selecting the [Language] menu item.

Formatting Memory Cards

Before you use a new memory card or one that has been used in other devices, you should format the card with this camera. Formatting (initializing) a memory card erases all data on the memory card. As you cannot retrieve the erased data, exercise adequate caution before formatting the memory card.







Display the menus.

Press the MENU button.

Select [Format].

- Press the ◆ buttons to select the *† tab.
- Press the ▲▼ buttons or turn the dial to select [Format], then press the ∰ button.

Format the memory card.

- Press the ◆ buttons or turn the dial to select [OK], then press the ∰ button.
- The memory card will be formatted.
- When formatting has finished, the menu screen will reappear.



Formatting or erasing data on a memory card merely changes the file management information on the card and does not ensure its contents are completely erased. Be careful when transferring or disposing of a memory card. When disposing of a memory card, take precautions such as physically destroying the card to prevent personal information leaks.



The total capacity of the memory card displayed in the formatting screen may be less than indicated on the memory card.

Pressing the Shutter Button

The shutter button has two stops. To take images that are in focus, be sure to first press the shutter button lightly (halfway) to focus, then take the shot.







Press halfway (lightly to the first stop).

- The camera focuses and automatically selects the necessary settings for shooting, such as the brightness.
- When the camera focuses, it will beep twice and the indicator will light green.

Press fully (to the second stop).

- The camera plays the shutter sound and takes the shot.
- Since the shot is being taken while the shutter sound plays, be careful not to move the camera.

Does the length of the shutter sound change?

- Since the time required to shoot differs according to the scene you want to take, the length of the shutter sound may change.
- If the camera or subject moves while the shutter sound is playing, the recorded image may be blurry.



If you just press the shutter button fully without pausing halfway, the image may not be in focus.

MID Taking Pictures

Since the camera can determine the subject and shooting conditions, you can let it automatically select the best settings for the scene and just shoot. The camera can also detect and focus on faces, setting the color and brightness to optimal levels.









Turn on the camera.

- Press the power button.
 - ▶ The start-up sound will play, and the startup screen will appear.
 - Pressing the power button again will turn the camera off.

Select the AUTO mode.

- Set the mode switch to AUTO.
- When you point the camera toward the subject, the camera will make a slight noise as it determines the scene.
- The camera focuses on the subject it judges to be the main subject, and displays the icon for the determined scene in the upper right of the screen.
- When faces are detected, a white frame appears on the face of the main subject, while gray frames appear on other detected faces.
- Even if the detected faces move, the camera will follow the faces within a certain range.

Compose the shot.

Moving the zoom lever toward [1] will zoom in on your subject, making it appear larger. Moving the lever toward [1] will zoom out from your subject, making it appear smaller.











- Press the shutter button halfway to focus.
- When the camera focuses, it will beep twice and the indicator will light green (orange when the flash will fire).
- Green AF frames appear where the subject is in focus.
- Several AF frames will appear when the camera focuses on more than one point.



Shoot.

- Press the shutter button fully.
- The camera will play the shutter sound and shoot. The flash will automatically fire in low light conditions.
- ➤ The indicator will blink green while the image is recorded to the memory card.
- ▶ The image will appear on the screen for about two seconds.
- You can take a second picture even while an image is displayed by pressing the shutter button.



What if...

• The camera does not play any sounds?

Pressing the DISP, button while turning on the camera power will turn off all sounds except for warning sounds. To turn the sounds on, press the MENU button, select the **Y** tab, and then select [Mute]. Use the **\(\bigcirc** buttons to select [Off].

AUTO Taking Pictures

- The image comes out dark even if the flash fired when shooting? The subject is too far away for the flash to reach. Shoot within the effective flash range of approximately 30 cm 3.5 m (1.0 11 ft.) at maximum wide angle, and approximately 30 cm 2.0 m (1.0 6.6 ft.) at maximum telephoto.
- The camera beeps once when the shutter button is pressed halfway? Your subject is too close. When the camera is at maximum wide angle, move about 2 cm (0.79 in.) or more away from your subject and shoot. Move about 50 cm (1.6 ft.) or more away when the camera is at maximum telephoto.
- The lamp lights when the shutter button is pressed halfway.
 To reduce red-eye and to assist in focusing, the lamp may light when shooting in dark areas
- The \$\frac{1}{2}\$ icon blinks when you try to take an image?
 The flash is charging. You can shoot when recharging ends.

Scene Icons

The camera displays an icon for the scene it has determined and then automatically focuses and selects the optimum settings for subject brightness and color.

Background	Bri	ght	Including	Blue Skies		Dark	
Subject		Backlit		Backlit	Sunsets		When Using Tripod
People		OF,		O 7/1	-		(E)
Subjects Other Than People Landscapes	AUTO	7,,	AUTO	7//	* **	AUTO)
Close Subjects	4	Win	(4)	WEIN	-	(4)	_
Icon Background Color	Gr	ay	Light Blue		Orange	Dark	Blue

* Displays when the camera is attached to a tripod.



Under certain conditions, the icon that displays may not match the actual scene. Especially when there is an orange or blue colored background (a wall for example), or the "Blue Skies" icons may appear and it may not be possible to shoot with the appropriate color. If this happens, try shooting in the **P** mode (p. 68).

▶ Viewing Images

You can view your images on the screen.





Select the playback mode.

- Press the button.
 - The last image you took will appear.

Select an image.

- Pressing the ◀ button will cycle through the images in reverse order.
- Pressing the button will cycle through the images in the order they were taken.
- If you hold the buttons pressed, the images advance continuously.
- Turning O counter-clockwise displays images in the reverse order they were taken, while turning it clockwise displays images in the order they were taken.
- Pressing the button while the lens is extended will cause the shooting screen to reappear.
- The lens will retract after approximately 1 minute elapses. If you press the ▶ button with the lens retracted, the power will turn off.

Ö

Switching images quickly



If you hold the ◀ button pressed and tilt the camera as shown in the illustration, the images advance quickly. However, the images appear coarse. When you hold the ▶ button pressed tilt the camera to the opposite direction.

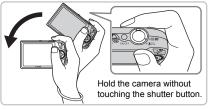
▶ Viewing Images

Active Display

If you tilt the camera gently from your wrist as shown in the illustration below, you can switch the images you are viewing.



- Depending on how you tilt the camera, images may not switch.
- Be careful not to accidentally bang people.
- Be sure to hold the camera with the strap around your wrist to avoid dropping it.







Switch to the previous image

Erasing Images

You can select and erase images one at a time. Please note that erased images cannot be recovered. Exercise adequate caution before erasing an image.





Select the playback mode.

- Press the F button.
- The last image you took will appear.





■ Press the ◀▶ buttons or turn the (○) dial to display an image to erase.





Erase the image.

- Press the very button.
- ► [Erase?] appears on the screen.
- Press the ◆ buttons or turn the ② dial to select [Erase], then press the (FIFE) button
 - The displayed image will be erased.
 - To exit instead of erasing, press the ◆▶ buttons or turn the (O) dial to select [Cancel], then press the (SET) button.



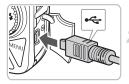


Printing Images

You can easily print the images you have taken if you connect the camera to a PictBridge compliant printer (sold separately).

Items to Prepare

- Camera and PictBridge compliant printer (sold separately)
- Interface cable supplied with the camera (p. 2)









Turn off the camera and printer.

Connect the camera to the printer.

- Open the cover, and insert the small end of the plug firmly into the camera terminal in the direction shown.
- Insert the cable's larger plug into the printer. For connection details, refer to the user guide provided with the printer.

Turn on the printer.

Turn on the camera.

- Press the button to turn on the camera.
- ► The 🕒 button will light blue.

Select an image to print.

Press the ◀▶ buttons or turn the ⊙ dial to select an image.



Print images.

- Press the 占 button.
- ▶ Printing will start and the ♣ button will blink blue.
- If you want to print additional images, repeat Steps 5 and 6 after printing has completed.
- After printing has completed, turn off the camera and printer, and unplug the interface cable.



Refer to the Personal Printing Guide for details on the best ways to print.

Canon-Brand PictBridge Compliant Printers (Sold Separately)

By connecting your camera to one of the Canon-brand PictBridge compliant printers below, you can print your images without having to use a computer.





Compact Photo Printers (SELPHY Series)



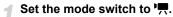
Inkjet Printers (PIXMA series)

For more information, visit your nearest Canon retailer.

" Shooting Movies

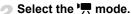
The camera can automatically select all settings so that you can shoot movies just by pressing the shutter button. If you continue shooting for a long time, the camera may become warm. This is not a malfunction.











- Press the ⊕ button, and press the ▲▼ buttons or turn the ○ dial to select '\,\frac{1}{27}, then press the ⊕ button again.
- Press the ▲▼ buttons or turn the ② dial to select →, then press the (button.





Compose the shot.

Moving the zoom lever toward [1] will zoom in on your subject, making it appear larger. Moving the lever toward [1] will zoom out from your subject, making it appear smaller.





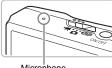
Focus.

- Press the shutter button halfway to focus.
- When the camera focuses, it will beep twice and the indicator will light green.



Elapsed Time





Microphone



Shoot.

- Press the shutter button fully.
- The camera will start shooting the movie, and [Rec] and the elapsed time will appear on the screen.
- Once shooting begins, take your finger off the shutter button.
- If you change the composition of your shot during shooting, the focus will stay the same, but the brightness and tone will automatically adjust.
- Do not touch the microphone while shooting.
- Do not press any buttons other than the shutter button. Otherwise, the sound the buttons make will be recorded in the movie

Stop shooting.

- Press the shutter button fully again.
- The camera will beep once and stop shooting the movie.
- The indicator will blink green, and the movie will record to the memory card.
- Shooting will automatically stop when the memory card fills.

Estimated Shooting Times

Memory Card	2 GB	8 GB
Shooting Time	10 min. 53 sec.	43 min. 32 sec.

- Shooting times are based on default settings.
- Shooting time can be checked on the screen in Step 2.
- Recording will automatically stop when either the clip file size reaches 4 GB or the recording time reaches approximately 29 minutes and 59 seconds.

▶ Viewing Movies

You can view your movies on the screen.



Select the playback mode.

- Press the button.
- The last image you shot will appear.
- ▶ □ appears on movies.



Select a movie.

- Press the ♠ buttons or turn the dial to select a movie, then press the ▲ button.
- The movie control panel will appear on the screen



Play the movie.

- Press the ◀▶ buttons or turn the dial to select ▶, then press the ∰ button.
- The movie will play.
- You can pause/resume the movie by pressing the (ﷺ) button again.
- Press the ▲▼ buttons to adjust the volume
- After the movie finishes.
 Agreement





When watching a movie on a computer, frames may drop, it may not play smoothly, and the audio may stop suddenly depending on the computer's capabilities. If you use the supplied software to copy the movie back onto the memory card, you can play back the movie smoothly. For enhanced playback you can also connect the camera to a TV.

Transferring Images to a Computer

You can use the included software to transfer your camera images to a computer.

System Requirements

Even though these are recommended system requirements, not all computer functions can be guaranteed.

Windows

os	Windows Vista (including Service Pack 1) Windows XP Service Pack 2, Service Pack 3		
Computer model	The above OS should be pre-installed on computers with built-in USB ports.		
CPU	Viewing images	Pentium 1.3 GHz or higher	
	Viewing movies	Core2 Duo 1.66 GHz or higher	
RAM	Viewing images	Windows Vista: 1 GB or more Windows XP: 512 MB or more	
	Viewing movies	1 GB or more	
Interface	USB		
Free Hard Disk Space	Canon Utilities	ZoomBrowser EX: 200 MB or more PhotoStitch: 40 MB or more	
Display	1,024 × 768 pixels or higher		

Macintosh

00	Mac OC V v10 1	v40 E	
OS	Mac OS X v10.4 – v10.5		
Computer model	The above OS should be pre-installed on computers with built-in USB ports.		
CPU	Viewing images	PowerPC G4/G5 or Intel Processor	
	Viewing movies	Core Duo 1.66 GHz or higher	
RAM	Viewing images	512 MB or more	
	Viewing movies	1 GB or more	
Interface	USB		
Free Hard Disk Space	Canon Utilities	ImageBrowser: 300 MB or more PhotoStitch: 50 MB or more	
Display	1,024 × 768 pixels or higher		

Items to Prepare

- Camera and computer
- DIGITAL CAMERA Solution Disk supplied with the camera (p. 2)
- Interface cable supplied with the camera (p. 2)

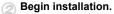
Preparations

Windows XP and Mac OS X (v10.4) are used for these explanations.

Install the software.

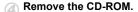
Windows

Place the DIGITAL CAMERA Solution Disk in the computer's CD-ROM drive.



 Click [Easy Installation] and follow the onscreen instructions to proceed with the installation.





 Remove the CD-ROM when your desktop screen appears.

Macintosh

- Place the CD-ROM in the computer's CD-ROM drive and double-click the icon.
- Click [Install], and follow the onscreen instructions to proceed with the installation.

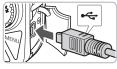
Connect the camera to the computer.

- Turn off the camera.
- Open the cover, and insert the cable's small plug into the camera terminal in the direction as shown.
- Insert the cable's larger plug into the computer's USB port. For connection details, refer to the user guide provided with the computer.











Turn on the camera.

- Press the button to turn on the camera.
- Open CameraWindow.

Windows

- Select [Canon CameraWindow] and click [OK].
- CameraWindow will appear.
- If CameraWindow does not appear, click the [Start] menu and select [All Programs] or [Programs], followed by [Canon Utilities] ► [CameraWindow]
 - [Canon Utilities] ► [CameraWindow] ► [CameraWindow].







Macintosh

- CameraWindow will appear when you establish a connection between the camera and computer.
- If CameraWindow does not appear, click the [CameraWindow] icon on the Dock (the bar which appears at the bottom of the desktop).

Transferring Images to a Computer

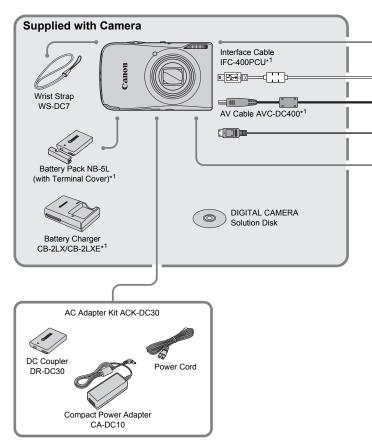


- Click [Transfer Untransferred Images].
- All images not previously transferred will transfer to the computer.
- After the transfer finishes, turn off the camera and unplug the cable.
- For further operations, refer to the Software Starter Guide.

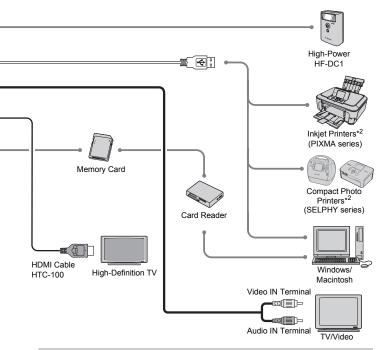


Images transferred to the computer will be sorted by date and saved in separate folders in the "My Pictures" folder for Windows or the "Pictures" folder for Macintosh.

Accessories



- *1 Also available for purchase separately.
- *2 See the user guide supplied with the printer for more information on the printer and interface cables.



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.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO LOCAL REGULATION.

Separately Sold Accessories

The following camera accessories are sold separately.

Some accessories are not sold in some regions, or may no longer be available.

Power Supplies

AC Adapter Kit ACK-DC30

This kit lets you power the camera using household power. Recommended for powering the camera for an extended period of time or when connecting to a computer. Cannot be used to charge the battery inside the camera.

Battery Charger CB-2LX/CB-2LXE

An adapter for charging Battery Pack NB-5L.

Battery Pack NB-5L

Rechargeable lithium-ion battery.



The battery charger can also be used when abroad.

The charger can be used in regions that have 100 - 240 V (50/60 Hz) AC power. If the plug does not fit the outlet, use a commercially available plug adapter. Do not use devices such as electrical transformers for foreign travel because they will cause malfunctions.

Other Accessories

HDMI Cable HTC-100

Use this cable to connect the camera to the HDMI $^{\mbox{\scriptsize TM}}$ terminal on a high-definition TV set.

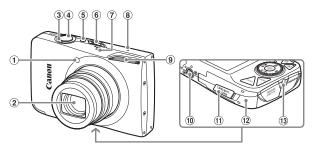
High-Power Flash HF-DC1

This attachable supplementary flash can illuminate subjects that are too distant for the light from the built-in flash to reach.

Learning More

This chapter explains the parts of the camera and what displays on the screen, as well as the basic operating instructions.

Components Guide

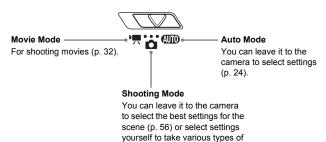


- Lamp (Red-Eye Reduction Lamp (p. 136)/ AF Assist Beam (p. 137)/ Self-Timer Lamp (p. 64))
- 2 Lens
- 3 Zoom Lever Shooting: ♣ (Telephoto)/ ♣ (Wide Angle) (p. 24) Playback: Q (Magnify)/ ♣ (Index) (p. 104)
- 4 Shutter Button (p. 23)

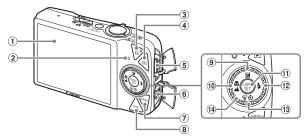
- ⑤ Power Button
- 6 Mode Switch
- ⑦ Speaker
- ® Microphone (p. 33)
- 9 Flash (pp. 59, 69)
- ① Tripod Socket
- ① DC Coupler Terminal Cover (p. 144)
- Memory Card / Battery Cover (p. 16)
- 3 Strap Mount (p. 13)

Mode Switch

Use the mode switch to change shooting modes.



pictures (pp. 55, 67, 81).



- 1 Screen (LCD Monitor) (p. 44)
- 2 Indicator (p. 46)
- ③ <u>L</u> (Direct Print) Button (pp. 30, 126, 139)
- ④ **▶** (Playback) Button (pp. 27, 103)
- 5 HDMI OUT Mini Terminal (p. 112)
- ⑥ A/V OUT (Audio/Video Output) and DIGITAL Terminal (pp. 30, 36, 111)
- 7 MENU Button (p. 48)
- ® DISP. (Display) Button (pp. 44, 45)

- ⑨

 (Exposure Compensation) (p. 76)/
 A Button
- (macro) (p. 70)/▲ (Infinity) (p. 69)/
 Button
- function/Set) Button
- ② ♣ (Flash) (pp. 59, 69)/ ▶ Button
- (Self-Timer) (pp. 63, 64, 78, 79)
 - ⟨Single Image Erase⟩ (p. 29)/
 ▼ Button
- (1) Control Dial (p. 43)

Control Dial

Turning the control dial allows you to perform operations such as selecting items or switching images.



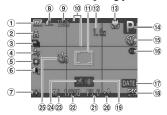
▶ Button

When the lens is extended, you can use the button to switch between the shooting and playback modes. When the lens is retracted, you can use it to turn the camera on and off in playback mode.



Information Displayed on the Screen

Shooting (Information Display)



- Battery Charge Indicator
 (p. 15)
- 2 Camera Orientation*3 Drive Mode (pp. 63, 64, 76, 78, 79)
- 4 My Colors (p. 77)
- 5 White Balance (p. 75)
- 6 i-Contrast (p. 89)
- 7 Metering Modes (p. 87)
- ® Compression (Image Quality) (p. 72)/ Recording Pixels (p. 72)
- Still Images: Recordable shots (p. 18) Movies: Remaining Time (p. 33)
- 10 Disp. Overlay (p. 138)
- ① AF Frame (p. 25), AE Point Frame (p. 87)
- 12 Digital Zoom Magnification (p. 60), Digital Tele-Converter (p. 61)
- (3) Macro (p. 70), Infinity (p. 69), AF Lock (p. 84)
- Shooting Mode
- (15) Flash Mode (pp. 59, 69)

- 16 Red-Eye Correction (p. 90)
- 17 Date Taken/Recorded
- (p. 62) ® ISO Speed (p. 74)
- Image Stabilizer (p. 139)
- 20 Exposure Compensation (p. 76)
- 21 Aperture Value
- 22 Shutter Speed
- ② AE Lock (pp. 87, 99), FE Lock (p. 88)
- 24 Time Zone (p. 133)
- 25 Self-Timer (pp. 63, 64, 78, 79)

* 🏚 : Standard, 🗘 🧯 : Held vertically

When shooting, the camera detects if it is held vertically or horizontally, and adjusts settings accordingly for the best shot. It also detects orientation during playback, so you can hold the camera in either orientation and it will automatically rotate images for correct viewing.

This function may not operate correctly when the camera is pointed straight up or down.

Switching the Display

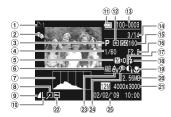
You can change the display using the DISP, button.



No Information Display

Information Display

Playback (Detailed Information Display)



- 1 Print List (p. 126)
- 2 My Category (p. 118)
- 3 Shooting Mode
- 4 Shutter Speed
- (5) Exposure Compensation (p. 76)
- 6 White Balance (p. 75)
- 7 Histogram (p. 46)
- 8 Image Editing (pp. 122 125)
- Compression (Image Quality) (p. 72), MW (Movies) (p. 98)

- 10 Recording Pixels (p. 72)
- Battery Charge Indicator
 (p. 15)
- 12 Metering Modes (p. 87)
- ③ Folder Number File Number (p. 134)
- ① Displayed Image
 Number /Total Number
 of Images
- (b. 74)
- (f) Aperture Value, Image Quality (Movies) (p. 98)
- (i) i-Contrast (pp. 89, 124)
- 18 Flash (p. 69)

- (9) Macro (p. 70), Infinity (p. 69)
- 20 File Size (pp. 72, 98)
- ② Still Images: Recording Pixels (p. 72) Movies: Movie Length (p. 99)
- 2 Protect (p. 116)
- 23 My Colors (pp. 77, 123)
- Red-Eye Correction (pp. 90, 125)
- Shooting Date and Time (p. 62)

Switching the Display

You can change the display using the DISP button.



No Information Display



Simple Information Display



Detailed Information Display



Focus Check Display (p. 109)



You can also switch the display by pressing the DISP, button while the image displays shortly after shooting. However, the Simple Information will not display. You can set the display that displays first. Press the MENU button to select the tab. Then set [Review Info].

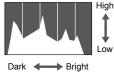
Display in Dark Conditions during Shooting

The display automatically brightens when shooting in dark conditions, allowing you to check the composition (Night Display function). However, the brightness of the image on the screen, and the brightness of the actual image recorded may be different. Screen noise may appear and the movement of the subject may appear somewhat jagged on the screen. This has no effect on the recorded image.

Overexposure Warning during Playback

In "Detailed Information Display" (p. 45), overexposed areas of the image flash on the screen.

Histogram during Playback





The graph that appears in "Detailed Information Display" (p. 45) is called the histogram. The histogram shows the distribution and amount of brightness of an image. When the graph approaches the right side, the image is bright, but when it approaches the left side, the image is dark, and in this way you can judge the exposure.

Indicator

The indicator on the back of the camera (p. 43) will light or blink under the following conditions.

Colors	Status	Operation Status
Green	Lights	Shooting preparation complete (p. 24)/Display Off (p. 132)
	Blinks	Recording/reading/transmitting image data (p. 24)
Orange	Lights	Shooting preparation complete (flash on) (p. 24)
	Blinks	Camera shake warning (p. 59)



When the indicator blinks green, data is being recorded to/read from the memory card or various information is being transmitted. Do not turn off the power, open the memory card slot/battery cover, shake or jolt the camera. These actions may corrupt the image data or cause the camera or memory card to malfunction.



(INC) FUNC. Menu – Basic Operations

Commonly used shooting functions can be set with the FUNC. menu. The menu and menu items differ depending on the shooting mode (p. 150). You can also use the FUNC. menu in the playback mode.





Selectable Options

Menu Items





Display the FUNC. menu.

Press the (button.

Select a menu item.

- Press the ▲▼ buttons or turn the (○) dial to select a menu item, then press the () button
- Depending on the menu, the screen may switch. Select a menu item and make the setting.

Select an option.

- Press the ▲▼ buttons or turn the (○) dial to select an option.
- To return to the menu, press the ■ button.

Make the setting.

- Press the (button.
- The shooting screen will reappear and the setting you selected will display on the screen.

MENU Menu - Basic Operations

Various functions can be set from the menus. The menu items are organized under tabs, such as for shooting (\bigcirc) and playback (\bigcirc). The menu items differ depending on the mode (pp. 152 – 155).













Display the menu.

Press the MENU button.

Select a tab.

Press the ◀▶ buttons, or move the zoom lever (p. 42) left or right to select a tab (category).

Select a menu item.

- Press the ▲▼ buttons or turn the dial to select a menu item.
- Some items require you to press the mobility button to display a submenu in which you change the setting.

Select an option.

■ Press the ◆ buttons to select an option.

Make the setting.

- Press the MENU button.
- The standard screen will reappear.

Changing the Sound Settings

You can silence or adjust the volume of camera sounds.

Muting Sounds





- Display the menu.
 - Press the MENU button.
 - Select [Mute].

 - Press the ▲▼ buttons or turn the dial to select [Mute], then use the ◀▶ buttons to select [On].

Adjusting the Volume





- Display the menu.
 - Press the MENU button.
 - Select [Volume].
 - Press the buttons to select the tab.
 - Press the ▲▼ buttons or turn the (dial to select [Volume], then press the (button
- Change the volume.
 - Press the ▲▼ buttons or turn the dial to select an item, then use the ◀▶ buttons to adjust the volume.

Changing the Screen Brightness

The screen brightness can be changed in two ways.

With the MENU Button





Display the menu.

- Press the MENU button.
- Select [LCD Brightness].
 - Press the ◆ buttons to select the *† tab.
 - Press the ▲▼ buttons or turn the dial to select [LCD Brightness].

Change the brightness.

- Press the buttons to change the brightness.
- Press the MENU button again to complete the setting.

With the DISP. Button



- Press the DISP, button for more than one second.
- The screen increases to maximum brightness regardless of the setting in the 11 tab.
- Pressing the DISP, button again for more than one second will return the screen to the original brightness.

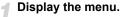


- The next time you turn on the camera, the screen will be at the brightness setting selected in the ft tab.

Returning the Camera to Default Settings

When you have mistakenly changed a setting, you can reset the camera to the default settings.





Press the MENU button.



- Press the buttons to select the tab.
- Press the ▲▼ buttons or turn the dial to select [Reset All], then press the ⊕ button.





Reset the settings.

- Press the ◀▶ buttons or turn the ۞ dial to select [OK], then press the ∰ button.
- ➤ The camera will reset to the default settings.

Are there functions that cannot be reset?

- The [Date/Time] (p. 19) in the
 †† tab, [Language] (p. 21), [Video System]
 (p. 111), [Time Zone] (p. 133), the image registered as [Start-up Image] (p. 141).
- The saved data for custom white balance (p. 75).
- Colors that were selected in Color Accent (p. 93) or Color Swap (p. 94).

Low Level Memory Card Formatting

Perform low level formatting when you think that the recording/reading speed of a memory card has dropped. Low level formatting a memory card completely erases all data on the memory card. As you cannot retrieve the erased data, exercise adequate caution before low level formatting the memory card.







Display the menu.

Press the MENU button.

Select [Format].

- Press the ◆ buttons to select the *† tab.
- Press the ▲▼ buttons or turn the dial to select [Format], then press the button.

Perform the low level format.

- Press the ▲▼ buttons or turn the dial to select [Low Level Format], then use the
 ♦ buttons to display √.
- Press the ▲▼◆▶ buttons or turn the dial to select [OK], then press the (**) button
- Low level formatting starts.

?

About low level formatting

When the [Memory card error] message appears, or when the camera does not work correctly, low level formatting the memory card may solve the problem. Copy the images from the memory card to a computer or other device before low level formatting.



- Low level formatting may take longer than standard formatting (p. 22), since all recorded data are erased.
- You can stop a low level format of a memory card by selecting [Stop].
 When stopping low level formatting, the data will be erased but the memory card can be used without problem.

Power Saving Function (Auto Power Down)

To save battery power, the camera shuts down automatically when it is not operated for a certain time.

Power Saving during Shooting

The monitor will turn off approximately 1 minute after the camera is last operated. After about 2 more minutes, the lens will retract and the power will turn off. When the monitor has turned off but the lens has not retracted yet, pressing the shutter button halfway (p. 23) turns on the monitor and shooting can continue.

Power Saving during Playback

The power will turn off approximately 5 minutes after the camera is last operated.



- You can turn off the Power Saving Function (p. 132).
- You can adjust the time before the monitor turns off (p. 132).

Clock Functions

You can check the current time.



- Hold the button pressed.
- A screen like that on the left appears showing the current time.
- You can change the display color by changing the camera's orientation and pressing the buttons or turning the
 dial.
- Press the button to cancel the clock display.



Press and hold the
button, then press the power button to display the clock.



Shooting in Special Conditions and Commonly Used Functions

This chapter explains how to shoot in different conditions, as well as how to use other common functions, such as the flash and self-timer.







- When you select a mode that matches a particular set of conditions, the camera will automatically select any necessary settings. All you need do is press the shutter button to take an optimized picture.
- This chapter assumes the mode switch is set to or AUTO.

Shooting in Various Conditions

The camera will select the necessary settings for the conditions in which you wish to shoot when you select the matching mode.



✓ Set the mode switch to (p. 42).

Select the desired shooting mode.

- After pressing the button, press the buttons or turn the dial to select
 P, then press the button.
- Press the ▲▼ buttons or turn the dial to select the desired mode, then press the button.
- Shoot.



Take portraits (Portrait)

 Produces a soft effect when photographing people.



Take snapshots at night (Night Snapshot)

- Lets you take beautiful snapshots of people against city nightscapes or night backgrounds.
- If you hold the camera firmly, you can take pictures with reduced camera shake, even without a tripod.



Take shots of kids and pets (Kids&Pets)

 Lets you capture subjects that move around, such as children and pets, without missing photo opportunities.



X Take indoor shots (Indoor)

Lets you shoot indoors with natural colors.



Shoot sunsets (Sunset)

 Lets you take shots of sunsets in vivid colors.



Take shots of fireworks (Fireworks)

 Lets you take shots of fireworks in vivid colors.



Take shots of people at the beach (Beach)

 Lets you take bright shots of people on sandy beaches where the reflected sunlight is strong.



Take shots of aquatic life in an aquarium (Aquarium)

 Lets you take natural-colored shots of aquatic life in indoor aquariums.



X Take shots of foliage (Foliage)

 Lets you shoot trees and leaves, such as new growth, autumn leaves or blossoms, in vivid colors.



*Take shots of people in snow (Snow)

 Lets you take bright, natural-colored shots of people against snowy backgrounds.



Shoot using high ISO speed (ISO3200)

- Sets the ISO speed to 3200, and lets you shoot without camera shake or subject blurring even in low light conditions.
- Recording pixels are set to M3 (1600 × 1200 pixels, p. 72).



- In M, \$\mathbb{R}\$, \$\tilde{\mathbb{R}}\$ or \$\overline{\overlin
- In mode, attach the camera to a tripod to prevent the camera from moving and blurring the image. Additionally, you are recommended to set [IS Mode] to [Off] (p. 139).
- In Imm mode, images may appear coarse.

Turning the Flash Off

You can shoot with the flash turned off.







Select 3.

- Press the ◆ buttons or turn the dial to select (5), then press the (SF) button.
- will appear on the screen.
- Follow the steps above to return the setting to \$\frac{1}{2}^A.



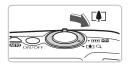


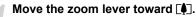
What if the indicator blinks orange and a flashing 🚨 appears?

When you press the shutter button halfway in low light conditions where camera shake is likely, the indicator will blink orange and a flashing 🚨 will appear on the screen. Attach the camera to a tripod to prevent it from moving.

Zooming in More Closely on Subjects (Digital Zoom)

You can use the digital zoom to zoom up to a maximum of 20x and capture subjects that are too far away for the optical zoom (p. 24) to enlarge. The images may appear coarse, however, depending on the recording pixel setting (p. 72) and the zoom factor used.





- Hold the lever until zooming stops.
- When you release the zoom lever, the largest possible zoom factor without image deterioration will appear.



▶ Move it toward 🚺 again.

► The digital zoom will further zoom in on the subject.

Zoom Factors at which Images Deteriorate

Recording Pixels	Optical Zoom	Digital Zoom
L	5.0x →	
M1	6.1	x→
M2		7.7x→
M3		13x →
S		20x →

- : No image deterioration (zoom factor appears white)
- : Image deterioration (zoom factor appears blue)
- → : Maximum zoom factor without deterioration (Safety Zoom)

Turning off the digital zoom

To turn off the digital zoom, press the **MENU** button, select the **t** tab, and select [Digital Zoom] and the [Off] option.



The focal length when using digital zoom is 185 – 740 mm (35mm film equivalent).

Digital Tele-Converter

The focal length of the lens can be increased by an equivalent of 1.5x or 2.0x. This enables a faster shutter speed and less chance of camera shake than the zoom (including digital zoom) used by itself at the same zoom factor.

The images may appear coarse, however, depending on the combination of recording pixel (p. 72) and digital tele-converter settings used.







Select [Digital Zoom].

- Press the MFNU button
- Select the tab, then press the buttons or turn the (O) dial to select [Digital Zoom].

Accept the setting.

- Press the ◆ buttons to select [1.5x] or [2.0x].
- Pressing the MENU button will restore the shooting screen.
- The view will be enlarged, and the zoom factor will display on the screen.
- To return to standard digital zoom, select [Digital Zoom] and the [Standard] option.

Combinations that Cause Image Deterioration

- Using [1.5x] at a recording pixel setting of L or M1 will cause image deterioration (the zoom factor will display in blue).
- Using [2.0x] at a recording pixel setting of L, M1 or M2 will cause image deterioration (the zoom factor will display in blue).



- The respective focal lengths when using [1.5x] and [2.0x] are 55.5 -277.5 mm and 74 - 370 mm (35mm film equivalent).
- The digital tele-converter cannot be used together with the digital zoom.

Inserting the Date and Time

You can insert the shooting date and time in the lower right corner of an image. Once inserted, however, they cannot be deleted. Be sure to check beforehand that the date and time are correctly set (p. 19).











Select [Date Stamp].

- Press the MENU button and select the tab, then select [Date Stamp] and use the buttons to select [Date] or [Date & Time].
- Press the MENU button again to accept the setting.
- ► [DATE] will appear on the screen.

Shoot.

- You can insert the shooting date and time in the image's lower right corner.
- To restore to the original setting, select [Off] in Step 1.



Inserting and printing the date and time in images which do not have an embedded date and time

- Use the DPOF print settings (p. 127) to print.
- Use the included software to print.

 Refer to the Software Starter Guide for details.
- Connect the camera to a printer to print.

 Refer to the Personal Printing Guide for details.

ৌ Using the Self-Timer

The self-timer can be used to shoot a group photo that includes the camera operator. The camera will activate approximately 10 seconds after the shutter button is pressed.





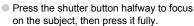




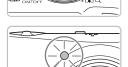
- Press the ▲▼ buttons or turn the dial to select (1), then press the (1) button.
- ► Once set, № will appear.







- When the self-timer starts, the lamp blinks and the self-timer sound plays.
- Two seconds before the shutter releases, the lamp and sound speed up (the lamp remains lit when the flash will fire).
- To restore the original setting, select tin Step 2.





You can change the delay time and number of shots (p. 79).

(Using the Face Self-Timer

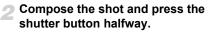
Once you compose the shot, such as for a group photo, and press the shutter button, the camera will take three shots in a row two seconds after it detects your face (p. 82) when you enter the composition.





Select 📆.

■ Follow Step 2 on p. 63 and select ☼.



Make sure a green frame appears on the face of the focused subject and white frames appear on other faces.



Press the shutter button fully.

- The camera will enter shooting stand-by, and [Look straight at camera to start count down] will appear on the screen.
- The lamp will blink and the self-timer sound will play.



Join the subjects and look at the camera.

- When the camera detects a new face, the lamp and sound will speed up (the lamp remains lit when the flash will fire), and two seconds later the shutter will release.
- The second and third shots will continue in succession.
- To restore the original setting, select in Step 2 on p. 63.



What if a face is not detected?

Even if your face is not detected after joining the subjects, the shutter will release approximately 30 seconds later.



Changing the number of shots

For the screen in Step 1, press the MENU button, then press the ◀▶ buttons to change the number of shots. Press the (st) button to accept the setting.

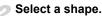
Special Effects for Night Backgrounds (Creative Light Effect)

Light displays and other points of light in the night backgrounds behind your subject can be changed into any of six predetermined shapes. Be sure to use the flash when shooting.



Select 🥸.

■ Select in Steps 1 – 3 on page 47 and press the button.



- Press the DISP button, then press the
 buttons or turn the dial to select a shape.
- Press the ▲▼ buttons to change the size of the shape.
- Press the DISP button to accept the setting.











Shooting tips

- Hold the camera firmly and shoot nonmoving points of light in as dark a location as possible.
- Be sure to shoot with your subject within the range of the flash (p. 69). Also make sure your subject is not illuminated by any other light source.



Depending on the shooting conditions, you may not get the selected shape or the expected scene brightness when shooting moving points of light.



Selecting Settings Yourself

In this chapter you will learn how to use the various functions in **P** mode to progressively advance your shooting skills.



- This chapter assumes that the mode switch is set to and the camera is in P mode.
- P stands for Program AE.
- Before attempting to shoot using a function explained in this chapter in modes other than P mode, check if the function is available in those modes (pp. 150 – 153).

P Shooting in Program AE

You can select the settings for various functions to suit your preferences. AE stands for Auto Exposure.



Set the mode switch to (p. 42).



- Select **P** in Steps 1 − 2 on page 47 and press the button.
- Adjust the settings according to your purposes (pp. 69 79).
- Shoot.



What if the shutter speed and aperture value are displayed in red?

If a correct exposure cannot be obtained when pressing the shutter button halfway, the shutter speed and aperture value display in red. Try the following settings to obtain the correct exposure.

- Turn on the flash (p. 69)
- Select a higher ISO speed (p. 74)

★ Turning the Flash On

You can make the flash fire every time you shoot. At maximum wide angle, the flash range is approximately 30 cm - 3.5 m (1.0 - 11 ft.), and at maximum telephoto, it is 30 cm - 2.0 m (1.0 - 6.6 ft.).



Select 4.

- After pressing the ▶ button, press the ◀▶ buttons or turn the ② dial to select ⋠, then press the ∰ button.
- Once set, \$ will appear.

▲ Shooting Far Away Subjects (Infinity)

You can shoot landscapes and far away subjects. The focusing range is 3 m (9.8 ft.) and greater from the camera.



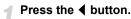
Select ▲.

- After pressing the ◀ button, press the ◀buttons or turn the ② dial to select ▲, then press the ∰ button.
- ▶ Once set, ▲ will appear.

Shooting Close-ups (Macro)

You can shoot an object at a close distance or even shoot extreme close-ups of it. The possible shooting range is approximately 2-50 cm (0.79 in. -1.6 ft.) from the end of the lens when the zoom lever is moved to the maximum wide angle.









- Press the ♠ buttons or turn the dial to select , then press the button.
- will appear on the screen.
- To restore to the original setting, select





You are recommended to attach the camera to a tripod and shoot in \mathfrak{S} , to prevent the camera from moving and blurring the image (p. 78).



The edges of the image may darken if the flash fires.

Ø Zooming In on Close Subjects (Digital Macro)

You can zoom in on close subjects. The possible shooting range is approximately 2-10 cm (0.79-3.9 in.) from the end of the lens. However, you can zoom in even closer on the subject using the digital zoom. The digital zoom may cause images to appear coarse at some recording pixel settings (p. 72).



Set the mode switch to (p. 42).

- Select **D.
 - Select ♥ in Steps 1 3 on page 47 and press the ⊕ button.
 - The optical zoom will lock at the maximum wide angle.
 - Use the zoom lever to compose the shot.
 - ► The camera will zoom in and the zoom factor will appear.

Zoom Factors at which Images Deteriorate

- No image deterioration (zoom factor appears white)
- Image deterioration (zoom factor appears blue)



Using 😋

You are recommended to attach the camera to a tripod and shoot in \mathfrak{S} , to prevent the camera from moving and blurring the image (p. 78).

Changing the Recording Pixels

You can select the recording pixels (image size) from six settings.



Select the recording pixels.

- Press the button and select **L**, then press the button.
- Select an option.
 - Press the ▲▼ buttons or turn the dial to select an option, then press the (**)
 - The setting you selected will display on the screen.

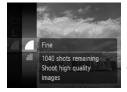


If you select $\overline{\mathbf{M}}$, you cannot use the Digital Zoom (p. 60) or Digital Tele-Converter (p. 61).

Changing the Compression Ratio (Image Quality)

You can select from the following two levels of image quality:

(Fine), (Normal).



Select the compression ratio.

 Press the button and select , then press the button.

Select an option.

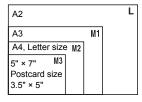
- Press the ▲▼ buttons or turn the dial to select an option, then press the (**) button.
- The setting you selected will display on the screen.

Approximate Values for Recording Pixels and Image Quality

	Compression	Single Image	Number of Recordable Images	
Recording Pixels	Ratio	Data Size (Approx. KB)	2 GB	8 GB
L (Large)		3084	626	2505
12 M/4000 × 3000		1474	1280	5116
M1 (Medium 1) 8 M/3264 × 2448	4	2060	930	3721
		980	1920	7675
M2 (Medium 2) 5 M/2592 × 1944	4	1395	1365	5457
		695	2672	10679
M3 (Medium 3) 2 M/1600 × 1200	4	558	3235	12927
		278	6146	24562
S (Small) 0.3 M/640 × 480	4	150	10245	40937
		84	15368	61406
(Widescreen) 4000 × 2248	4	2311	830	3318
		1105	1707	6822

[•] The values in the table are measured according to Canon standards and may change depending on the subject, memory card and camera settings.

Approximate Values for Paper Size



- **S** Suitable for sending images as e-mail attachments.
- For printing on wide size paper.

Changing the ISO Speed



Select the ISO speed.

- Press the (st) button and select (st) button.
 then press the (st) button.
- Press the ▲▼ buttons or turn the ② dial to select an option, then press the management
- Once set, the ISO speed will appear on the screen.

Approximate Values for ISO Speed

ISO AUTO	Automatically adjusts the ISO speed to the shooting mode and shooting conditions.	
(50 (50 (50 80 100 200	Low	Fine weather conditions, outdoor shooting.
(50 (50 400 800	1	Cloudy, Twilight
1600	High	Nightscapes, Dark interiors



Changing the ISO speed

- Lowering the ISO speed results in sharper images, but there may be an increased chance of image blurring in certain shooting conditions.
- Raising the ISO speed results in a faster shutter speed, reducing camera shake and letting the flash reach greater distances to the subject. The images, however, will appear coarse.



- When the camera is set to Iso, you can press the shutter button halfway to display the automatically set ISO speed.
- With ISO3200 you can set an even faster speed (p. 58).

Adjusting the White Balance

The white balance (WB) function sets the optimal white balance for natural looking colors.



Select the white balance.

Press the (st) button and select \(\mathbb{M} \), then press the (st) button.

Select an option.

- Press the ▲▼ buttons or turn the dial to select an option, then press the ⊕ button.
- The setting you selected will display on the screen.

AWB	Auto	Automatically sets the optimal white balance for the shooting conditions.
*	Day Light	Fine weather conditions, outdoor shooting
2	Cloudy	Cloudy, shady, twilight conditions
*	Tungsten	Tungsten, bulb-type (3-wavelength) fluorescent lighting
111	Fluorescent	Warm-white fluorescent, cool-white fluorescent, warm-white-type (3-wavelength) fluorescent lighting
淵	Fluorescent H	Daylight fluorescent, daylight-type (3-wavelength) fluorescent lighting
•	Custom	Manually sets a custom white balance.

■ Custom White Balance

You can adjust the white balance to the light source at the shooting location. Make sure that you set the white balance under the lighting conditions of the shooting scene.



- In Step 2 above, select
- Make sure the entire screen is filled with the white subject, then press the DISP. button.
- The tint on the screen will change when a white balance data is set.

Adjusting the Brightness (Exposure Compensation)

You can adjust the standard exposure set by the camera in 1/3-stop increments in the range of -2 to +2.



Select the exposure compensation.

- Press the button.
- Adjust the brightness.
 - While watching the screen, press the ◀▶ buttons or turn the dial to adjust the brightness and press the ⊕ button.

□ Continuous Shooting

You can shoot continuously at about 1.0 images/second.



Select the drive mode.

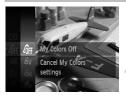
- Press the (s) button to select □, then press the button.
- Press the ▲▼ buttons to select □, then press the (button.
- Shoot.
 - As long as you hold the shutter button down, the camera will shoot successive images.



- Cannot be used with the self-timer (pp. 63, 64, 78, 79).
- For continuous shooting, the focus and exposure are locked when the shutter button is pressed halfway.
- As the number of images increases, the shooting intervals may take longer.
- If the flash fires, shooting intervals may take longer.

Changing the Tone of an Image (My Colors)

You can change the tone of an image to sepia or black and white when shooting.



Select My Colors.

Press the ∰ button and select ऻ then press the ∰ button.

Select an option.

- Press the ▲▼ buttons or turn the dial to select an option, then press the m
- ▶ The setting you selected will display on the screen.
- After shooting, return the setting to Off.

4∂FF	My Colors Off	_
Α̈́ν	Vivid	Emphasizes the contrast and color saturation for a vivid impression.
AN	Neutral	Tones down the contrast and color saturation for neutral hues.
€\$e	Sepia	Sepia tones.
€BW	B/W	Black and white.
ΔP	Positive Film	Like the Vivid Red, Vivid Green or Vivid Blue effects, produces intense natural appearing colors like those obtained with positive film.
a_{L}	Lighter Skin Tone	Makes skin tones lighter.
₽D	Darker Skin Tone	Makes skin tones darker.
₽B	Vivid Blue	Emphasizes blue tints. Makes the sky, ocean and other blue subjects more vivid.
₿G	Vivid Green	Emphasizes green tints. Makes mountains, foliage and other green subjects more vivid.
₽R	Vivid Red	Emphasizes red tints. Makes red subjects more vivid.
Ac	Custom Color	You can adjust contrast, sharpness, and color saturation etc. to your preference.



- The white balance cannot be set in the & and & modes (p. 75).
- In the \mathcal{A}_L and \mathcal{A}_D modes, colors other than people's skin color may change. You may not obtain the expected results with some skin colors.

Ac Custom Color

The contrast, sharpness, color saturation, red, green, blue, and skin tones in an image can be selected and set from 5 different levels.



- Follow Step 2 on page 77 and select ^AC, then press the DISP, button.
- Press the ▲▼ buttons to select an option, then use the ◀▶ buttons or turn the ⊙ dial to select a value.
- The more to the right, the stronger/deeper the effect gets, the more to the left, the weaker/lighter the effect gets.
- Press the DISP, button to accept the setting.

♦ Shooting Using the Two Second Self-Timer

You can set the self-timer to a delay of approximately two seconds.



Select 😭.

- After pressing the ▼ button, press the
 ▲▼ buttons or turn the idle to select
 then press the button.
- Once set, 2 will appear.
- Follow Step 3 on page 63 to shoot.

C Customizing the Self-Timer

You can set the time delay (0 - 30 seconds) and the number of shots taken (1 - 10 shots).





After pressing the ▼ button, press the ▲▼ buttons or turn the ○ dial to select ऐ, then immediately the press the MENU button.



Select the settings.

- Press the ▲▼ buttons to select [Delay] or [Shots].
- Press the ◀▶ buttons or turn the dial to select a value, then press the ⊕ button.
- Follow Step 3 on page 63 to shoot.

What if the number of shots is set to two or more shots?

- Exposure and white balance settings are set with the first shot.
- When you set the time delay for more than 2 seconds, the self-timer lamp and sound speed up 2 seconds before the shutter releases (when the flash will fire, the lamp lights).



- If the flash fires, the shooting interval may be longer.
- If you set a high number of shots, the shooting interval may be longer.
- If the memory card becomes full, shooting stops automatically.

Shooting Using a TV Monitor

You can use a TV to display the camera screen content.

- Connect the camera to a TV as described in "Viewing Images on a TV" (p. 111).
- Shooting procedures are the same as when using the camera's monitor.



TV display is not available when using the HDMI Cable HTC-100 (sold separately) to connect the camera to a high-definition TV.

Changing the Composition with the Focus Lock

While you press and hold the shutter button halfway, the focus and exposure are fixed. You can now recompose and shoot. This is called Focus Lock.





Focus.

- Center the subject you want in focus, and press the shutter button halfway.
- Confirm that the AF Frame on the subject is green.





Recompose.

 Hold the shutter button pressed halfway and recompose the scene.

Shoot.

Press the shutter button fully.

Getting More Out of Your Camera

This chapter serves as the advanced version of Chapter 4 and explains how to take pictures using various functions.



- This chapter assumes that the mode switch is set to and the camera is in P mode.
- "

 Taking Shots With Impact (Zoom Blur)" (p. 85), "★ Shooting Long Exposures" (p. 92), "Changing the Color and Shooting" (p. 93) and "□ Shooting Stitch Assist Images" (p. 96) assume you have set the mode switch to □ and selected the corresponding mode.
- Before attempting to shoot using a function explained in this chapter in modes other than P mode, check if the function is available in those modes (pp. 150 – 153).

Changing the AF Frame Mode

You can change the AF (Auto Focus) frame mode to match the conditions you want to shoot.



Select [AF Frame].

Press the MENU button, select the tab, select [AF Frame], then press the buttons to select an option.

Face AiAF

- Detects people's faces and sets the focus, exposure (evaluative metering only) and white balance (W only).
- When the camera is pointed at subjects, a white frame appears on the face the camera judges to be the main subject, and gray frames (max. 2) will appear on other faces. When the shutter button is pressed halfway, up to 9 green frames will appear on faces on which the camera focuses.



- If a face is not detected and only gray frames (no white frame) appear, up to 9 green frames will appear on the areas the camera focuses on when the shutter button is pressed halfway.
- Examples of faces that cannot be detected:
 - Subjects that are far away or extremely close.
 - Subjects that are dark or light.
 - Faces turned to the side or at a diagonal, or faces with a portion hidden.
- The camera may mistakenly identify non-human subjects as a face.
- If the camera cannot focus when you press the shutter button halfway, the AF frame will not appear.

Center

The AF frame is fixed at the center. This is effective for focusing on a specific point.



You can reduce the AF frame size

- Press the MENU button, select the tab, then select the [AF Frame Size] menu item and [Small] option.
- The setting is configured to [Normal] when the Digital Zoom or Digital Tele-converter is used.



If the camera cannot focus when you press the shutter button halfway, the AF frame will turn yellow.

Magnifying the Focal Point

If you press the shutter button halfway, the AF frame will magnify and you can check the focus.





 Press the MENU button and select [AF-Point Zoom] on the tab. Use the tab.



Check the focus.

- Press the shutter button halfway.
- In [Face AiAF], the face selected as the main subject will appear magnified.
- In [Center], the contents of the center AF frame will appear magnified.



What if the display does not magnify?

The display will not appear magnified in [Face AiAF] mode if a face cannot be detected (p. 82) or is too big in relation to the screen. In [Center] mode, it will not appear magnified if the camera cannot focus.



The magnified display will not appear when using the Digital Zoom (p. 60), Digital Tele-Converter (p. 61) or Servo AF (p. 84), or when connected to a TV (p. 80).

AFL Shooting with the AF Lock

The focus can be locked. After locking the focus, the focal distance will not change even when you release your finger from the shutter button.





Lock the focus.

- Keep the shutter button pressed halfway and press the ◀ button.
- The focus locks and AFL is displayed on the screen.
- If you release your finger from the shutter button, and press the ◀ button once more, AFL will disappear and the focus will unlock
- Compose the scene and shoot.

Shooting with Servo AF

Since focus will be maintained on a subject while you press the shutter button halfway, you can shoot moving subjects without missing photo opportunities.



Select [Servo AF].

 Press the MENU button and select [Servo AF] on the tab, and use the buttons to select [On].



▶ While the shutter button is pressed halfway, the focus will continue to adjust on the spot where the blue frame appears.



- The camera may not be able to focus in some conditions.
- You cannot shoot with the AF lock in this mode.
- You cannot set the Servo AF mode if you have set the [AF-Point Zoom] option in the tab to [On].
- Not available in FaceSelf-Timer (p. 64).



Taking Shots With Impact (Zoom Blur)

The optical zoom operates automatically during shooting, creating an image where the subject appears closed into the center of the screen.



Select 🌋.

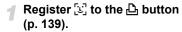
- Select in Steps 1 − 3 on page 47 and press the (SET) button.
- After the shutter sound plays, the camera will zoom.



- The focal length is fixed. The zoom function is not available.
- Results will vary depending on the lighting conditions of the scene.

[의 Selecting the Person to Focus On (Face Select)

You can select a specific person's face to focus on and then shoot.



Set the Face Select mode.

- Point the camera toward the face and press the ₽₁ button.
- After [Face Select : On] displays, a face frame from displays are around the face detected as the main subject.
- Even if the subject moves, the frame will follow the subject within a certain range.
- If a face is not detected, ^r
 ^r

Select the face on which to focus.

- If you press the button, the frame will move to another face detected by the camera.
- When the frame has made a full circuit of all detected faces, the AF frame mode screen will reappear.



- Press the shutter button halfway. The face frame of the focused face will change into a green

 ...
- Press the shutter button fully to shoot.







ക്

Confirming the number of detected faces

Keeping the L button pressed will display the number of faces detected by the camera (35 at the most) (green: main subject's face, white: detected face).



Not available in Zoom Blur, Stitch Assist or movie modes.

Changing the Metering Mode

You can change the metering mode (brightness measuring function) to match the shooting conditions.



Select the metering mode.

Press the () button and select (), then press the () button.

Select an option.

- Press the ▲▼ buttons or turn the ② dial to select an option, then press the ⊕ button.
- The setting will display on the screen.

S Evaluative	Suitable for standard shooting conditions, including back lit shots. Automatically adjusts the exposure to match the shooting conditions.	
Center Weighted Avg.	Averages the light metered from the entire frame, but gives greater weight to the center. Only meters within the [] (Spot AE Point frame) that appears at	
[•] Spot	Only meters within the [] (Spot AE Point frame) that appears at the center of the screen.	

AEL Shooting with the AE Lock

When you wish to take several shots with the same exposure, you can set the exposure and focus separately using the AE lock. AE stands for "Auto Exposure".





Lock the exposure.

- Point the camera toward the subject and press the button while pressing the shutter button halfway.
- ► When ÆL appears, the exposure will be set
- If you release your finger from the shutter button and press the button again, AEL will disappear and the AE will unlock.
- Compose the scene and shoot.

FEL Shooting with the FE Lock

Just as with the AE lock (p. 87), you can lock the exposure for shooting with the flash. FE stands for "Flash Exposure".



Select \$ (p. 69).





Lock the exposure.

- Point the camera toward the subject and press the button while pressing the shutter button halfway.
- ► The flash will fire and when FEL appears, the flash output will be retained.
- If you release your finger from the shutter button and press the ▲ button again, FEL will disappear and the FE will unlock.
- Compose the scene and shoot.

5 Shooting with Slow Synchro

You can make the main subject, such as people, appear bright by having the camera provide the appropriate illumination with the flash. At the same time, you can use a slow shutter speed to brighten the background that the light from the flash cannot reach.





Select 4...*.

- After pressing the ▶ button, press the ◀▶ buttons or turn the ⊙ dial to select ¼*, then press the ∰ button.
- ▶ Once set, ¼ will appear on the screen.



 Even if the flash fires, ensure that the subject does not move until the shutter sound ends



Attach the camera to a tripod to prevent the camera from moving and blurring the image. It is recommended to set the [IS Mode] to [Off] when shooting with a tripod (p. 139).

Ci Making Dark Subjects Appear Brighter (i-Contrast)

The camera can automatically detect and compensate for faces or subjects that appear dark in certain shooting conditions.





- Press the MENU button, select
 [i-Contrast] from the tab, and use the
 buttons to select [Auto].
- ► C_i will appear on the screen.





Under some conditions, the image may appear coarse or the exposure setting may not be suitable.

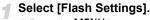


You can correct recorded images (p. 124).

® Red-Eye Correction

You can automatically correct red eyes in images taken with the flash.





Press the MENU button, select [Flash Settings] from the tab and press the button.



Adjust the setting.

- Press the ▲▼ buttons or turn the dial to select [Red-Eye Corr.] and press the
 ♦ buttons to select [On].
- will appear on the screen.



Red-eye correction may be applied to other red parts than red eyes. For example, when red make-up has been used around eyes.



- You can correct recorded images (p. 125).
- If you press the ▶ button as shown on the screen in Step 2 and then press the MENU button, the Flash Settings screen will display.

Checking for Shut Eyes



Select [Blink Detection].

Press the MENU button, select the tab, and then select [Blink Detection]. Use the buttons to select [On].

Shoot.



In $\biguplus, \circlearrowleft$ and \circlearrowright mode, the function is only available for the last image shot.

★ Shooting Long Exposures

You can set the shutter speed to a range between 1 and 15 seconds to shoot long exposures. However, you should attach the camera to a tripod to prevent the camera from moving and blurring the image.





¶ Select ∗ຽ່.

Set the mode switch to

in Steps 1 – 3 on page 47 and press the

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in Steps



Select the shutter speed.

- Press the button.
- Press the ◀▶ buttons or turn the ② dial to select shutter speed, then press the ⊕ button.

Confirm the exposure.

 When you press the shutter button halfway, the exposure for the selected shutter speed will appear.



- The brightness of the image may differ from the brightness of the screen in Step 3 when the shutter button was pressed halfway.
- When shutter speeds of 1.3 seconds or slower are used, images are processed to eliminate noise after being taken. A certain amount of processing time may be needed before you can take the next shot.
- It is recommended to set the [IS Mode] to [Off] when shooting with a tripod (p. 139).



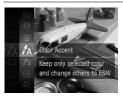
If the flash fires, the image may be overexposed. If this happens, set the flash to \$ and shoot.

Changing the Color and Shooting

You can change the look of an image when shooting. However, the shooting conditions may cause the image to become coarse, or the colors may not come out as expected.

IA Color Accent

You can select to retain a single color and change the rest to black and white in a composition.





Recorded color

Select ₽A.

■ Follow Step 2 on page 56 to select A.

Press the DISP, button.

- The unchanged image and the Color Accent image will both display.
- The color for default settings is green.

Specify the color.

- Position the center frame so it is filled with the color you want and press the ◀ button.
- The specified color will be recorded.

Specify the range of colors.

- Press the ▲▼ buttons or turn the dial to change the range of colors to be retained
- Select a negative value to limit the range of colors. Select a positive value to extend the range of colors to similar colors.
- Pressing the DISP button accepts the setting and restores the shooting screen.



- Using the flash may cause unexpected results in this mode.
- The recorded color will be saved even if you turn off the power.

S Color Swap

You can swap one color in an image for another when recording it. You can only swap one color.





■ Follow Step 2 on page 56 to select /s.



Press the DISP button.

- The unchanged image and the Color Swap image will both display.
- The default setting is to change green to gray.



Specify the color to be swapped.

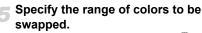
- Position the center frame so it is filled with the color you want and press the

 button.
- The specified color will be recorded.



Specify the target color.

- Position the center frame so it is filled with the color you want and press the ▶ button.
- The specified color will be recorded.



- Press the ▲▼ buttons or turn the dial to adjust the range of colors affected.
- Select a negative value to limit the range of colors. Select a positive value to extend the range of colors to similar colors.
- Pressing the DISP, button accepts the setting and restores the shooting screen.



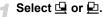
- Using the flash may cause unexpected results in this mode.
- The recorded color and range of colors will be saved even if you turn off the power.
- Under some conditions, the image may appear coarse.

□ Shooting Stitch Assist Images

Large subjects can be split into several shots that can later be merged together using the included software on a computer to create a panoramic image.







Follow Step 2 on page 56 to select

☐ or
 ☐.

Take the first shot.

The exposure and white balance will be set with the first shot.

Take subsequent shots.

- Overlap part of the first shot when taking the second shot.
- Minor discrepancies in the overlapping portions will be corrected when the images are merged.
- You can repeat the procedure for the second shot to take up to 26 shots.
- When you have finished taking shots, proceed to Step 4.

Finish shooting.

Press the (st) button.

Merge the images on a computer.

 For details on how to merge the images, refer to the Software Starter Guide.



This function is not available when a TV is used as the monitor (p. 80).

Using Various Functions for Shooting Movies

This chapter provides more advanced information than the

"Shooting Movies" and "D Viewing Movies" sections of Chapter 1.



This chapter assumes that the mode switch is set to \(\frac{1}{27} \).

Changing the Movie Mode

You can select between three movie modes.



Set the mode switch to 📆.

Select a movie mode.

- After pressing the ⊕ button, press the
 ▲▼ buttons or turn the dial to select
 ऐ₦, then press the ⊕ button.
- Press the ▲▼ buttons or turn the dial to select a mode, then press the ⊕ button.

Standard ■	For shooting standard quality movies.
₹ Color Accent	These shooting modes let you change all colors except the selected color to black and white, or exchange the selected color
№ Color Swap	for another color, when shooting. See "Changing the Color and Shooting" (p. 93) for details.



Under some conditions, colors may not turn out as expected in the $\begin{tabular}{l} \end{tabular}$ and $\begin{tabular}{l} \end{tabular}$ mode.

Changing the Image Quality

You can select between three image quality settings.



Select the image quality.

- After pressing the ∰ button, press the
 ▲▼ buttons or turn the dial to select
 ★ then press the ∰ button.
- Select an option.

 - The setting will display on the screen.

Image Quality Table

Image Quality (Recording Pixels/Frame Rate)	Content
1280 × 720 pixels, 30 frames/sec.	For shooting high-definition movies.
640 × 480 pixels, 30 frames/sec.	For shooting standard quality movies.
320 × 240 pixels, 30 frames/sec.	Since the number of the recording pixels is smaller, the image quality will be lower than with 400, but you can record three times the length.

Estimated Shooting Times

Image Quality	Shooting Time	
(Frame Rate)	2 GB	8 GB
1280	10 min. 53 sec.	43 min. 32 sec.
640	23 min. 49 sec.	1 hr. 35 min. 11 sec.
320	1 hr. 13 min. 10 sec.	4 hrs. 52 min. 24 sec.

- · Based on Canon's testing standards.
- Recording may stop even if the maximum clip length has not been reached on some memory cards. SD Speed Class 4 or higher memory cards are recommended.

AE Lock/Exposure Shift

You can set the exposure or change it in 1/3 steps within a range of ±2.



Focus.

- Lock the exposure.
 - Press the button to lock the exposure. The exposure shift bar appears.
 - Press the A button again to release the lock.
- Change the exposure.
 - While watching the screen, turn the O
 dial to adjust the brightness.
- Shoot.

Other Shooting Functions

The following functions can be used in the same way as for still images. For R and R modes, the functions with an * attached can be used in the same way as for still images.

Zooming in More Closely on Subjects (Digital Zoom) (p. 60)

You can use the digital zoom, but the optical zoom cannot be used. If you want to shoot at the maximum zoom factor, you should adjust the optical zoom to the maximum before shooting.

The sound of the zoom will be recorded.

- ☼ Using the Self-Timer (p. 63)*
- Shooting Close-ups (Macro) (p. 70)*
- A Shooting Far Away Subjects (Infinity) (p. 69)*
- Adjusting the White Balance (p. 75)
- Changing the Tone of an Image (My Colors) (p. 77)
- Shooting Using the Two Second Self-Timer (p. 78)*
- Shooting Using a TV Monitor (p. 80)*
- AFL Shooting with the AF Lock (p. 84)
- Turning off the AF Assist Beam (p. 137)*
- Displaying the Overlay (p. 138)*
 [3:2 Guide] is not available.
- Changing the IS-Mode Settings (p. 139)*
 You can switch between [Continuous] and [Off].

Playback Functions

The following functions can be used in the same way as for still images.

- # Erasing Images (p. 29)
- Quickly Searching Images (p. 104)
- W Viewing Images in Filtered Playback (p. 106)
- Viewing Slideshows (p. 107)
- Changing Image Transitions (p. 110)
- Viewing Images on a TV (p. 111)
- A Erasing All Images (p. 112)
- O

 Protecting Images (p. 116)
- Organizing Images by Category (My Category) (p. 118)

Summary for " Viewing Movies" (p. 34)

•5	Exit
	Playback
	Slow Motion Playback (you can use the ◀▶ buttons to adjust the speed. Sound will not play back.)
K	Display the first frame
4	Previous frame (Rewind if you hold down the (button.)
	Next frame (Fast forward if you hold down the (button.)
>>	Display the last frame
*	Edit (p. 101)
Д	Displays when connected to a PictBridge compliant printer (p. 30). Refer to the <i>Personal Printing Guide</i> for details.

% Editing

You can trim the beginnings and ends of recorded movies in one-second increments



Movie Editing Panel



Movie Editing Bar

■ Select %.

- Follow Steps 1 to 3 on p. 34, select **%** and press the (button.
- The movie editing panel and the movie editing bar will display.

Set the editing range.

- Press the ▲▼ buttons and select 場 or 場.
- Press the ◀▶ buttons or turn the ② dial to move ■. ¾ will display at each one-second interval. If you select ¾ , you can trim the beginning of the movie from ¾. If you select ¼, , you can trim the end of the movie from ¾.

- ▶ Even if you move

 to a point other than a

 point, only the portion from the nearest

 to the left will be trimmed when

 selected. Only the portion from the
 nearest

 to the right will be trimmed

 when

 ### is selected.
- The section selected with

 will be the section of the movie that remains after editing.

Check the edited movie.

- Press the ▲▼ buttons to select ▶, then press the ⊕ button. The edited movie will play.
- To edit the movie again, repeat Step 2.
- To cancel editing, press the ▲▼ buttons, and select '5'. After pressing the (**) button, press the ◀▶ buttons or turn the (Odial to select [OK], and press the (**) button.



Save the edited movie.

- Press the ▲▼ buttons to select , then press the button.
- Press the ◆ buttons or turn the dial to select [New File], then press the
 ★ button.
- The movie will be saved as a new file.



- When [Overwrite] in Step 4 is selected, the unedited movie is overwritten with the edited movie, erasing the original movie.
- When there is not enough space left on the memory card, only [Overwrite] can be selected.
- If the battery is depleted partway through editing, the edited movie clips may not be saved. When editing movies, you should use a fully charged battery or the separately sold AC adapter kit (p. 40).

Using Playback and Other Functions

The first part of this chapter explains various ways to play back and edit images. The latter part explains how to specify images for printing.

 Press the button to select the Playback mode before operating the camera.

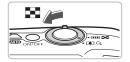


- It may not be possible to play back or edit images that have been edited on a computer, had their file name changed, or have been taken on a different camera.
- The edit function (pp. 121 125) cannot be used if the memory card does not have free space available.

Quickly Searching Images

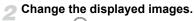
Searching Images Using Index Display

Displaying multiple images at a time lets you quickly find the image you want.



Move the zoom lever toward ■.

- Images will display in an index.
- Move the zoom lever toward to increase the number of images. The number of images increases each time you move the lever.
- Move the zoom lever toward Q to reduce the number of images. The number of images will reduce each time you move the lever.



- Turn the dial to switch to the next set of images set in Step 1.
- Select an image.
 - Press the ▲▼◀▶ buttons to select an image.
 - An orange frame appears on the selected image.
 - Press the button to display the selected image by itself.



Searching Images Using the Control Dial

Turn the control dial to quickly search images. You can also jump by the shooting date.



Select an image.

- If you set the single image playback and turn the dial quickly, the images will display as shown on the left.
- If you press the ▲▼ buttons, you can search images by the shooting date.
- Pressing the button restores the single image playback.



📅 Viewing Images in Filtered Playback

When there are many images on the memory card, you can filter and display them by a specified condition. You can also delete (p. 112) or protect (p. 116) all images at once in the filtered condition.

Setting the Conditions



My Category



Press the button to select , then press the (button.

Select a condition.

Press the ▲▼ buttons or turn the (○) dial to select a condition, then press the (SF) button



View the filtered images.

- Press the ▲▼ buttons or turn the (○) dial to select a condition for playback, then press the (str) button.
- Filtered playback starts and a yellow frame displays.
- If you press the buttons, only the images selected in Step 1 will display.
- If you select [All Images] in Step 2, filtered playback will be canceled.

Search by ⊘, ⋒, 🗀 and 🧣

	Displays the images shot on the specified date
My Category	Displays the images of the specified category
☐ Folder	Displays the images in a specified folder
🗣 File Format	Displays only still images or movies



What if you can't select a target?

Conditions containing no images cannot be selected.



Filtered Playback

You can use the following functions in filtered playback for processing the filtered images at once.

• "

"Erasing Images" (p. 29), "

Viewing Slideshows" (p. 107), "

Protecting Images" (p. 116), "Selecting Images for Printing (DPOF)" (p. 127)

Viewing Slideshows

You can automatically play back images recorded to a memory card. Each image displays for approximately 3 seconds.



Select ♦.

Press the button to select , then press the button.



- The slideshow will start a few seconds after [Loading image...] displays.
- In filtered playback (p. 106), only images in a filtered condition play back.
- You can pause/restart a slideshow by pressing the (button again.
- Press the MENU button to stop the slideshow.



- If you press the ◆ buttons or turn the dial during playback, the image will switch. If you press and hold down the ◆ buttons you can fast-forward through images.
- The power saving function does not work during slideshows (p. 53).

Changing Settings

You can change the time that slideshow images are displayed, transition effects and set the slideshow to repeat. You can select from seven transition effects when switching between images.



Select [Slideshow].

Press the MENU button and select the tab, then select [Slideshow] and press the button.

Make the setting.

- Press the ▲▼ buttons or turn the dial to select an item, then press the ◀▶ buttons to adjust the setting.
- If you select [Start] and press the button, the slideshow starts with your settings.
- Pressing the MENU button restores the slideshow screen.

Checking the Focus

You can magnify the area of a recorded image that was inside the AF frame or the area of a face that was detected to check the focus.





Press the DISP, button, and switch to the focus check display (p. 45).

- A white frame will appear where the AF frame or face was when the focus was set.
- A gray frame will appear on a face detected during playback.
- The area within the orange frame appears magnified.

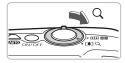
Change the magnification level or location.

- Move the zoom lever toward Q once.
- Use the zoom lever to change the display size, and the ▲▼◀▶ buttons to change the display position while checking the focus

Switch frames.

- Pressing the button will switch to a different frame.
- Pressing the MENU button resets the display to Step 1.

Q Magnifying Images





Approximate Location of Displayed Area

Move the zoom lever toward Q.

- The display will zoom in on the image and, if you continue to hold the zoom lever, it will continue to zoom in up to a factor of 10x.
- If you press the ▲▼◀▶ buttons, you can move the location of the displayed area.
- Move the zoom lever toward to zoom out or return to Single Image Playback.
- If you turn the O dial, you can switch images in the zoomed state.

Changing Image Transitions

You can select from three transition effects when switching between images in single image playback.



Select [Transition].

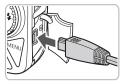
- Press the MENU button and select the tab, then select [Transition] and use the
 - **♦** buttons to select a transition effect.
- Press the MENU button to accept the setting.

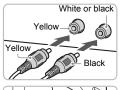
Viewing Images on a TV

Using the supplied AV cable, you can connect the camera to a TV to view images you have shot.

Items to Prepare

- Camera and TV
- AV cable supplied with the camera (p. 2)







Turn off the camera and TV.

Connect the camera to the TV.

- Open the camera's terminal cover and fully insert the plug of the supplied AV cable into the camera's A/V OUT terminal.
- Insert the cable plug fully into the video input terminals as shown in the illustration.
- Turn on the TV and switch it to the input to which the cable is connected.

Turn on the camera.

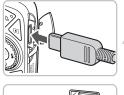
- Press the button to turn on the camera.
- The image will appear on the TV (nothing will appear on the monitor of the camera).
- After you finish viewing, turn off the camera and TV, and unplug the AV cable.

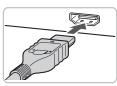
What if the images don't properly display on the TV?

Images will not display correctly if the camera's video output setting (NTSC/PAL) does not match the TV system. Press the **MENU** button, select the **\hat{Y}^{\dagger}** tab and [Video System] to switch to the correct video system.

Viewing Images on a High-Definition TV

Use the separately sold HDMI cable HTC-100 to connect the camera with a high-definition TV for enhanced viewing experience.





◀ Turn off the camera and TV.

Connect the camera to the TV.

- Open the camera's terminal cover and fully insert the plug of the supplied AV cable into the camera's HDMI OUT mini terminal.
 - Insert the cable plug fully into the TV's HDMI terminal as shown in the illustration.
 - Follow Steps 3 4 on p. 111 to display the images.

Erasing All Images

You can select images and erase them in groups. Since erased images cannot be recovered, exercise adequate caution before erasing. Protected images (p. 116) cannot be erased.





Select [Erase].

Press the MENU button, select the

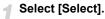
tab and [Erase], and press the

button.



- Press the MENU button to return to the menu screen.

Selecting Images Individually



 Follow Step 2 above to select [Select] and press the (button.

Select images.

- Press the ♠ buttons or turn the dial, select the image and press the ∰ button.
- Once set,

 ✓ will appear on the screen.
- Pressing the ⊕ button once more will cancel the selection, and ✓ will disappear.
- To select multiple images, repeat the above operation.

Press the MENU button.

Erase.

Press the ◀▶ buttons or turn the ○ dial, select [OK] and press the (♣) button.





Select Range









Select [Select Range].

Follow Step 2 on p. 112 to select [Select Range] and press the (button.

Select the starting image.

- Press the (button.
- Press the buttons or turn the dial, select the image and press the button.

Select the ending image.

- Press the ▶ button, select [Last image] and press the button.
- You cannot select images before the first image.
- Press the ◀▶ buttons or turn the dial to select an image, and press the ★ button.



▲ Erase.

 Press the ▼ button to select [Erase], then press the ⊕ button.



You can also select the first or last image by turning the O dial when the upper screen in Steps 2 and 3 is displayed.

Select All Images

Select [All Images].

 Follow Step 2 on p. 112 to select [All Images] and press the () button.



Erase.

Press the ◀▶ buttons or turn the ○ dial, select [OK] and press the (ﷺ) button.

O[™] Protecting Images

You can protect important images so that they cannot be erased by the camera (pp. 29, 112).





Select Om.

Press the (st) button to select On, then press the (button.





- Press the ◆ buttons or turn the (○) dial, select [Protect], and press the (st) button.



If you format the memory card (pp. 22, 52), protected images will also be erased



- Protected images cannot be erased with the camera's erase function. To erase an image, cancel protection first.
- You can also protect images using the following method. Press the MENU button, select the ▶ tab, select [Protect]. Press the (SET) button to select an image and press the (button.

Select Range



Select [Protect].

 Press the MENU button, select the tab and [Protect], and then press the button.

Select [Select Range].

- Press the ▲▼ buttons or turn the dial, select [Select Range], and press the ⊕ button.
- Follow Steps 2 and 3 on p. 114 to select the range.

Protect images.

Press the ▼ button, select [Protect] and press the ∰ button.

Select All Images



Select [All Images].

 Follow Step 2 above to select [All Images] and press the button.

Protect images.

 Press the ▲▼ buttons or turn the dial, select [Protect] and press the button.



You can unlock groups of protected images if you select [Unlock] in Step 2, while in [Select Range] or [All Images].

Organizing Images by Category (My Category)

You can categorize images. You can also use the categorized images in the following functions.

 Viewing Images in Filtered Playback (p. 106), Slideshow (p. 107), Erase All (p. 112), Protect (p. 116), Print Settings (DPOF) (p. 127)





Press the button to select , then press the button.



Make the setting.

- Press the ▲▼ buttons, select a category and press the (button.
- To select multiple images, press the 4b buttons or turn the dial to select an image, then repeat the above operation.



Images are automatically categorized by shooting condition as they are shot.

: Images shot in 利, 型, 靠 modes or images with faces detected when the [AF Frame] is set to [Face AiAF] will be categorized to 勒.

§ : Images shot in

Ø,

§,

Ø,

Ø,

Ø will be categorized to

Ø.

Selecting Images Individually







Press the MENU button, select the tab and [My Category], and press the button.

Select [Select].

Press the ▲▼ buttons or turn the dial, select [Select], and press the button.

Make the setting.

- Follow Step 2 to set the category.
- Press the MENU button to return to the menu screen.

Select Range



Select [Select Range].

- Follow Step 2 above to select [Select Range] and press the () button.
- Follow Steps 2 and 3 on page 114 to select images.
- Press the ▼ button to select an item, then press the ◀▶ buttons or turn the ○ dial, and select a type.

Select the setting.

Press the ▼ button to select [Select] and press the ∰ button.



If you select [Deselect] in Step 2, you can deselect all of the images in the [Select Range] category.

Rotating Images

You can change the orientation of an image and save it. Movies with a resolution of mid cannot be rotated.





Press the button to select https://www.html.
 press the button.



Make the setting.

- Press the ◆▶ buttons to select the rotation direction and press the (ﷺ) button.
- ► The image will rotate 90° in the selected direction
- Press the MENU button to return to the menu screen.

Select All Images



Select [Rotate].

Press the MENU button and select the tab, then select [Rotate] and press the tab, button.

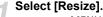


Rotate the image.

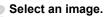
- Press the ◀▶ buttons or turn the dial to select an image to rotate.
- The image will rotate 90° with each press of the (button.
- If you want to rotate multiple images, press the buttons or turn the dial, select an image and repeat the operations above.
- Press the MENU button to return to the menu screen.

You can resize images to a lower pixel setting and save the resized image as a separate file.

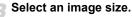




Press the MENU button and select the tab, then select [Resize] and press the button.



Press the ◀▶ buttons or turn the ○ dial, select the image and press the ⊕ button.



- Press the ◀▶ buttons or turn the dial to select an option, then press the
 button.
- The [Save new image?] screen will appear.



Save the new image.

- Press the ◀▶ buttons or turn the ② dial to select [OK] and press the ∰ button.
- The image will be saved as a new file.



Display the new image.

When you press the MENU button, the [Display new image?] screen will appear. If you press the ◀▶ buttons or turn the ⊙ dial to select [Yes] and press the ∰ button, the saved image will display.



- You cannot resize an image to a larger size.
- You cannot resize images taken with the W and XS settings.

4 Trimming

You can cut out a portion of a recorded image and save it as a new image file.



Trimming Area



Trimming Area Display

Recorded pixels

after trimming



Select [Trimming].

● Press the MENU button, select the ▶ tab and [Trimming], then press the (sir) button.

Select an image.

Press the ♠ buttons or turn the ○ dial, select the image and press the ⊕ button.

Adjust the trimming area.

- A frame will appear around the portion of the image to be trimmed.
- The original image will display in the upper left and the trimmed image will display in the lower right.
- If you move the zoom lever to the left or right, you can change the frame size.
- If you press the ▲▼◀▶ buttons, you can move the frame.
- If you press the DISP, button, you can change the vertical/horizontal orientation of the frame.
- In an image with a detected face, a gray frame will appear around faces located in the upper left of the frame, and the frame can be used for trimming. You can switch between frames by turning the dial.
- After pressing the ⊕ button, press the
 ◆ buttons or turn the dial to select
 [OK], and press the ⊕ button.

Save as a new image and display.

Perform Steps 4 and 5 on p. 121.



- ■, S and XS images cannot be trimmed.
- Trimming is only possible for images shot at aspect ratio 4:3 (vertical 3:4).
- The number of recorded pixels in a trimmed image will be smaller than before trimming.

Adding Effects with the My Colors Function

You can change the color of an image and save it as a separate image. Refer to p. 77 for details on each menu item.





Select [My Colors].

Press the MENU button, select the

tab and [My Colors], and press the

w

button.

Select an image.

 Press the ◀▶ buttons or turn the ○ dia to select the image and press the ⊕ button.

Select a menu option.

- Press the ◀▶ buttons or turn the ⊙ dial to select an option, then press the ⊕ button.
- After selecting the menu option, you can zoom the image by following the operations in "Q Magnifying Images" (p. 110).
- If you press the button during magnified display, you can switch to the original image. Pressing the MENU button restores the menu screen.

Save as a new image and display.

Perform Steps 4 and 5 on p. 121.

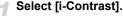


- If you repeatedly change the color of an image, the quality will gradually deteriorate and you may not achieve the expected color.
- The coloration of images changed with this function may vary from those recorded with the My Colors function (p. 77).

Ci Making Dark Subjects Appear Brighter (i-Contrast)

Detects and compensates for dark sections of subjects or people's faces and saves the image as a separate file. You can select 4 levels of correction: [Auto], [Low], [Medium] or [High].



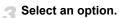


- Press the MENU button, select the

 tab and [i-Contrast], then press the

 (

 g) button.
- Select an image.
 - Press the ◀▶ buttons or turn the ② dial to select the image and press the ∰ button.



- Press the ◀► buttons or turn the dial to select an option, then press the
 ★ button.
- Save as a new image and display.
 - Perform Steps 4 and 5 on p. 121.
- What if the image wasn't corrected by the [Auto] option as well as you would like?

Select [Low], [Medium] or [High] and adjust the image.



i-Contrast

- Under some conditions, the image may appear coarse or the exposure setting may not be suitable.
- Repeatedly adjusting the same image may cause the quality to deteriorate.

Correcting the Red-Eye Effect

You can automatically correct red eyes in images and save them as new files.



Select [Red-Eye Correction].

- Press the MENU button, select the tab and [Red-Eye Correction], then press the button.
- ▶ The [Red-Eye Correction] screen will appear.

Select an image.

- Press the ◀▶ buttons or turn the ⊙ dial, select the image.
- You can zoom the image using the procedures in "Q Magnifying Images" (p. 110).



Correct the image.

- Press the (button.
- Frames appear at the corrected areas.
- You can zoom the image using the procedures in "Q Magnifying Images" (p. 110).

Save as a new image and display.

- Press the ▲▼◀▶ buttons or turn the odial to select [New File], and press the
 - The image will be saved as a new file.
- Display the new image using the operation in Step 5 on p. 121.

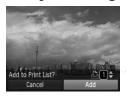


- · Some images may not be properly corrected.
- When [Overwrite] in Step 4 is selected, the uncorrected image is overwritten with the corrected data, erasing the original image.
- · Protected images cannot be overwritten.

Printing from the Print List (DPOF)

You can add images to the print list (DPOF) directly after shooting or while in playback by pressing the 🚨 button. You can print from a print list simply by connecting your camera and printer. These selection methods comply with the DPOF (Digital Print Order Format) standards.

Easily Add Images to the Print List



- Select an image.
 - Press the ♠ buttons or turn the dial to select the image.
- Press the ⊡ button (videos will be excluded).
- Print list.
 - Press the ▲▼ buttons and select the number of prints, press the ◀▶ buttons or turn the ② dial to select [Add] and press the ∰ button.
 - To remove an image from the print list, select the added image and press the ₽ button, then press the ◀▶ buttons or turn the ○ dial to select [Remove] and press the ♠ button.

Print Added Images

The following examples use the Canon SELPHY series printers. Please also refer to the *Personal Printing Guide*.

Number of copies to print



Connect the camera to the printer (p. 30).

Print.

- Press the ▲▼ buttons, select [Print now] and press the (st) button.
- Printing will start.
- If you stop the printer during printing and start again, it will start from the next print.

Selecting Images for Printing (DPOF)

You can select certain images on a memory card for printing (up to 998 images) and specify the number of print copies so they can be printed together or processed at a photo developer service. You can then print all the selected images at once or take the memory card to a photo developer to order prints. These selection methods comply with the DPOF (Digital Print Order Format) standards.

Print Settings

You can set the print type, date and file number. These settings apply to all images selected for printing.



Select [Print Settings].

Press the MENU button and select the Lab, then select [Print Settings] and press the button.

Adjust the settings.

- Press the ▲▼ buttons or turn the dial to select a menu item, then press the ◀▶ buttons to select an option.
- ▶ Pressing the MENU button accepts the settings and restores the menu screen.

Print Type	Standard	Prints one image per page.
	Index	Prints several reduced size images per page.
	Both	Prints both standard and index formats.
Date	On	Prints the date from the shooting information.
	Off	-
File No.	On	Prints the file number.
	Off	-
Clear DPOF data	On	Removes all print settings after printing.
	Off	_

Selecting Images for Printing (DPOF)



- Some printers or photo developer services may not be able to reflect all
 of the print settings in the output.
- Imay display when using a memory card with print settings set by a different camera. These settings will be overwritten by those set by your camera.
- Images with the date embedded always print with the date, regardless of the [Date] setting. As a result, some printers may print the date twice on these images if [Date] is also set to [On].



- With [Index] selected, the [Date] and [File No.] options cannot be set to [On] at the same time.
- The date will be printed in the style set in the [Date/Time] function in the **f†** tab (p. 19).

Selecting the Number of Copies



Select [Select Images & Qty.].

Press the MENU button and select the tab, then select [Select Images & Qty.] and press the button.

Select an image.

- Press the ◆▶ buttons or turn the dial to select an image, then press the ⊕ button.
- You will be able to set the number of print copies.
- If you select [Index],
 ✓ appears on the screen
- Press the button again to deselect the images. will disappear.



Set the number of prints.

- Press the ▲▼ buttons or turn the dial to set the number of prints (maximum 99).
- Repeat Steps 2 and 3 to select other images and the number of prints for each.
- You cannot set the number of print copies for Index prints. You can only select which images to print in Step 2.
- Pressing the MENU button accepts the settings and restores the menu screen.

Select Range



Select [Select Range].

- Select [Select Range] in Step 1 on p. 128 and press the button.
- Select images according to Steps 2 and 3 on p. 114.

Make print settings.

Press the ▲▼ buttons, select [Order] and press the (button.

Set All Images to Print Once



Select [Select All Images].

 Select [Select All Images] from the screen in Step 1 on p. 128 and press the
 button.

Make print settings.

Press the ◀▶ buttons or turn the ○ dial, select [OK] and press the (button.

Clearing All Selections



Select [Clear All Selections].

- Select [Clear All Selections] in Step 1 on p. 128, and press the () button.
- Press the ◀▶ buttons or turn the dial to select [OK], then press the ∰ button.
- All selections will be cleared.

Customizing the Camera

You can customize various functions to suit your shooting preferences. The first part of this chapter explains convenient and commonly used functions. The latter part explains how to change shooting and playback settings to suit your purposes.



Changing Functions

You can customize convenient and commonly used functions from the **ft** tab (p. 48).

Turning off the Power Saving Function

You can set the power saving function (p. 53) to [Off]. Setting it to [On] is recommended to save battery power.



- Select [Power Saving], then press the ()
- Press the ▲▼ buttons or turn the dial to select [Auto Power Down], then use the ▲▶ buttons to select [Off].
- If you set the Power Saving function to [Off], be careful not to forget to turn off the camera after use.

Setting the Screen Shut-Off Time

You can adjust the time the screen takes to shut off automatically (p. 53). This also works when [Auto Power Down] is set to [Off].



- Select [Power Saving], then press the button.
- Press the ▲▼ buttons or turn the () dial to select [Display Off], then use the ◀▶ buttons to select a time.
- In order to save battery power, it is recommended to select less than [1 min.].

Using 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.









Set the home time zone.

- Select [Time Zone] and press the button.
- When setting this for the first time, confirm the information that displays on the screen at the left, and press the () button.
- Press the ◆ buttons or turn the ② dial to select the home time zone, then press the ∰ button. To set daylight saving time (adds 1 hour), press the ▲▼ buttons to select ☀:

Set the world time zone.

- Press the ▲▼ buttons or turn the ② dial to select 록, then press the ∰ button.
- Press the ◀▶ buttons or turn the ⊘ dial to select the destination time zone, then press the ∰ button.
- You can also set the daylight saving time as in Step 1.

Select the world time zone.

- Press the ▲▼ buttons or turn the dial and select [Home/World].
- Press the ♠ buttons to select ズ, then press the MENU button.
- ➤ will appear in the [Time Zone] or shooting screen (p. 44).



If you change the date or time in the X setting, (p. 19), your ft time and date will automatically change.

Turning off Hints & Tips

When you select an item in the FUNC. menu or when using the **T** to buttons, hints and tips display. You can turn off this function.



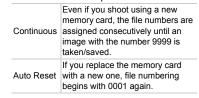
 Select [Hints & Tips] and press the buttons to select [Off].

Changing the File Number Assignment

Images you shoot are automatically assigned file numbers in the order they were taken, from 0001 – 9999, and saved to folders of up to 2,000 images. You can change the file number assignment.



 Select [File Numbering], then press the buttons to select an option.





- If you use a memory card already containing images, the newly assigned file numbers may continue the existing numbering for both the [Continuous] and [Auto Reset] settings. If you want to start over with file number 0001, format the memory card before use (pp. 22, 52).
- Refer to the Software Starter Guide for information regarding folder structure or image types.

Creating a Folder

You can create new folders in which to save images.



- Select [Create Folder], then press the button.
- Select [Create New Folder], then press the ◀▶ buttons to select ✓.
- Shots will be recorded into the new folder.

Creating Folders by Day and Time

You can set a day and time for folder creation.



- Select [Create Folder], then press the button.
- Select [Auto Create], then press the buttons to select an interval.
- Select [Time], then press the buttons to set a time.
- The new folder will be created on the set day and time. Images shot after the creation date are saved to the new folder.

Turning off Auto Rotate

When you play back images on the camera, images shot in vertical orientation automatically rotate and display vertically. You can turn off this function.



 Select [Auto Rotate], then press the buttons to select [Off].

Changing the Lens Retract Time

For safety reasons, the lens retracts about 1 minute after pressing the button when in a shooting mode (p. 27). You can set the retraction time to [0 sec.].



 Select [Lens Retract], then press the buttons to select [0 sec.].

Changing Shooting Functions

If you set the mode switch to , and the mode to P, you can change the settings in the tab (p. 48).



Before attempting to shoot using a function explained in this chapter in modes other than **P** mode, check if the function is available in those modes (pp. 150 – 153).

Turning off the Red-Eye Reduction Function

The red-eye reduction lamp lights in order to reduce the red-eye effect that occurs when shooting in dark conditions with the flash. You can turn off this function.



- Select [Flash Settings], then press the button.
- Press the ▲▼ buttons or turn the dial to select [Red-Eye Lamp], then press the
 ◆ buttons to select [Off].

Turning off the AF Assist Beam

The lamp will automatically light to assist focusing in low light conditions when you press the shutter button halfway. You can turn off the lamp.



Select [AF-assist Beam], then press the buttons to select [Off].

Changing the Image Display Time

You can change the length of time the images display directly after shooting.



- Select [Review], then press the buttons to select an option.
- If you select [Off], the image will not display.
- If you select [Hold], the image displays until you press the shutter button halfway.

Changing the Image Display Right After Shooting

You can change the image display that appears after shooting.



Select [Review Info], then press the ◀▶
buttons to select an option.

Detailed Displays detailed information (p. 45).

The area inside the AF frame is magnified, allowing you to check the focus. The procedure is the same as in "Checking the Focus" (p. 109).

Displaying the Overlay

You can display gridlines for vertical and horizontal guidance, or a 3:2 guide to confirm the printable area for L size or postcard size prints.

Both



Select [Disp. Overlay], then press the ◀▶
buttons to select an option.

Grid Lines A grid overlays the display.

The areas outside the 3:2 range are grayed out. This area will not print when printing on paper with a 3:2 aspect ratio.

will display.

Both grid lines, and the 3:2 guide



- In M mode, you cannot set [3:2 Guide] or [Both].
- Grid Lines will not be recorded on the image.
- The gray areas displayed with [3:2 Guide] are the areas that will not be printed. The actual image recorded will include the portion in the gray areas.

Changing the IS-Mode Settings



Select [IS Mode], then press the ◀▶ buttons to select an option.

Continuous	Image stabilization is always on. You can confirm the result directly on the display, which makes it easier to check the composition or focus.
Shoot Only	Image stabilization is only active at the moment of shooting.
Panning	Image stabilization only counters up and down motion. This option is recommended for shooting objects moving horizontally.



- If camera shake is too strong, attach the camera to a tripod. It is recommended to set the IS Mode to [Off] when the camera is fixed to a tripod.
- When using [Panning], hold the camera horizontally. Image stabilization does not work when the camera is held vertically.

Registering Functions to the 🕒 Button



- Select [Set 🖺 button], then press the
- Press the ▲▼◀▶ buttons or turn the dial to select the functions to register, then press the (**) button.
- Pressing the button will call up the registered function.



- Select fyou want to cancel a function.
- When this symbol is shown on the bottom right of an icon, the function cannot be used in the current shooting mode or function setting.
- In ➡, each press of the ➡ button records white balance data (p. 75), and the white balance settings also change to ➡.

Changing Playback Functions

You can adjust the settings in the ▶ tab by pressing the ▶ button (p. 48).

Turning off Active Display

When you shake or tilt the camera gently you can display the next image or you can change the speed at which images switch. You can turn off this function.



 Select [Active Display], then press the buttons to select [Off].

Selecting the Image that First Displays in Playback



Select [Resume], then press the buttons to select an option.

Last shot	Resumes with the most recently shot image.
Last seen	Resumes with the image last viewed.

Changing the Start-up Image or Sound

In the **f†** tab, you can change the sounds played for each camera operation or set the start-up image that appears when the camera power is turned on.

Change Sounds



- Select [Sound Options], then press the without the button.
- Press the ▲▼ buttons or turn the dial to select an option.
- Press the ◀▶ buttons to change the sound.
 - 1 Preset sound.
 - You can register your sounds using the supplied software (ZoomBrowser EX/ ImageBrowser) (p. 142).

Changing the Start-up Screen



- Select [Start-up Image], then press the without button.
- Press the **\| \barepsilon** buttons to change the image.

 X No start-up image.
 - 1 Preset image.
 - You can register images that you have taken.

Setting a Recorded Image as the Start-up Screen Image





Press the ◀▶ buttons to select [2], then press the (button.



- Press the ◀▶ buttons or turn the dial to select an image, then press the ⊕ button.
- Press the ◀▶ buttons or turn the ② dial to select [OK], then press the ∰ button to complete registration.



Any previously registered start-up image will be overwritten when registering a new start-up image.



Using the included software to register sounds and the start-up screen image

You can register sounds and start-up screen images that come with the included software to the camera. Refer to the *Software Starter Guide* for details.

Useful Information

This chapter introduces how to use the AC adapter kit (sold separately), troubleshooting tips and contains lists of functions. The index also appears at the end.

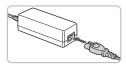


Using Household Power

If you use AC Adapter Kit ACK-DC30 (sold separately), you can use the camera without worrying about how much charge is left in the battery.







Insert the coupler.

- Open the cover (p. 16) and insert the coupler as shown until it locks into place with a click.
- Close the cover (p. 16).

Plug the cord into the coupler.

 Open the cover and fully insert the plug into the coupler.

Connect the power cord.

- Connect the power cord to the compact power adapter, then plug the other end into a power outlet.
- You can turn the camera on to use it.
- After you finish, turn off the camera and unplug the power cord from the power outlet.



Do not unplug the plug or power cord with the camera turned on. This could erase images you have taken or damage the camera.

Troubleshooting

If you think there is a problem with the camera, first check the following. If the items below do not solve your problem, contact a Canon Customer Support Help Desk as listed on the included customer support list.

Power

You pressed the power button, but nothing happened.

- Confirm that the battery is properly inserted (p. 16).
- Confirm that the memory card/battery cover is securely closed (p. 16).
- If the battery terminals are dirty, battery performance will decrease. Clean the terminals with a cotton swab and re-insert the battery several times.

Battery is consumed quickly.

 Battery performance decreases at low temperatures. Warm the battery by such methods as placing them in your pocket with the terminal cover on.

Lens will not retract.

 Do not open the memory card/battery cover while the power is on. After closing the memory card/battery cover, turn the power on then back off (p. 17).

TV output

Image is distorted or not showing on TV (p. 111).

Shooting

Cannot shoot.

- Set the mode switch to (p. 42).
- When in playback (p. 27), press the shutter button halfway (p. 23).

Screen does not display properly in dark places (p. 46).

Screen does not display properly while shooting.

Please note, the following will not be recorded in still images, but will be recorded in movies.

- When the camera is subjected to powerful light sources, the display may darken.
- Under fluorescent lighting, the screen may flicker.
- When shooting bright light sources, a bar of light (purplish red) may appear on the screen.

The \$\frac{1}{2}\$ icon blinks when you try to shoot (p. 26).

Q appears when the shutter button was pressed halfway (p. 59).

- Set [IS Mode] to [Continuous] (p. 139).
- Set the flash to \$ (p. 69).
- Increase the ISO speed (p. 74).
- Attach the camera to a tripod.

Image is blurred.

- Press the shutter button halfway to focus, then shoot (p. 23).
- Shoot the subject within the focusing distance (p. 157).
- Set the [AF-assist Beam] to [On] (p. 137).
- Confirm that functions which you do not intend to use (macro, etc.) are not set.
- Shoot using the focus lock or AF lock (pp. 80, 84).

Even when you press the shutter button halfway, the frame does not appear, and the camera does not focus.

 If you center on the light and dark contrasting area of the subject and press the shutter button halfway, or repeatedly press the shutter button halfway, the frame will appear and the camera will focus.

Subject is too dark.

- Set the flash to \$ (p. 69).
- Adjust the brightness with exposure compensation (p. 76).
- Adjust the brightness with the i-Contrast function (pp. 89, 124).
- Use the AE lock, or spot metering to shoot (p. 87).

Subject is too bright (overexposed).

- Set the flash to (p. 59).
- Adjust the brightness with exposure compensation (p. 76).
- Use the AE lock, or spot metering to shoot (p. 87).
- The subject is too bright due to ambient lighting.

Image is dark even though the flash fired (p. 26).

- Increase the ISO speed (p. 74).
- Shoot within an appropriate distance for flash photography (p. 69).

Image taken using the flash is too bright (overexposed).

- Shoot within an appropriate distance for flash photography (p. 69).
- Set the flash to (9) (p. 59).

White dots appear on the image when shooting with the flash.

Light from the flash has reflected off dust particles or other objects in the air.

Image appears rough or grainy.

- Shoot with the ISO speed on a lower setting (p. 74).
- Depending on the shooting mode, when shooting in a high ISO speed the image may appear rough or grainy (p. 58).

Eyes appear red (p. 90).

Set the [Red-Eye Lamp] to [On] (p. 136). When shooting with the flash, the lamp (on the front of the camera) lights (p. 42), and for approximately 1 second while the camera is reducing red-eye, it is not possible to shoot. It is more effective if the subject is looking directly at the lamp. Even better results can be obtained by increasing the lighting in indoor settings or approaching closer to the subject.

Recording images to the memory card takes a long time, or continuous shooting slows down.

Perform a low-level format of the memory card in the camera (p. 52).

When you can't make settings for shooting functions or FUNC. menu.

 The items in which settings can be made differ depending on the shooting mode. Refer to "Functions Available in Each Shooting Mode" (pp. 150 – 151).

Shooting movies

Correct shooting time does not display, or stops.

 Format the memory card in the camera, or use a memory card capable of recording at high speeds. Even when the shooting time does not display properly, the video recorded will be the length that it was actually shot (p. 33).

displayed on the LCD monitor, and shooting ended automatically.

Camera's internal memory was insufficient. Try one of the following.

- Perform a low-level format of the memory card in the camera (p. 52).
- Lower the recorded pixels (p. 98).
- Use a memory card capable of recording at high speeds.

Zoom does not operate.

You can use the digital zoom while recording, but not the optical zoom (p. 100).

Playback

Cannot play back images or movies.

 If the file name or folder structure is changed on a computer, you may not be able to play back images or movies. Refer to the Personal Printing Guide for information regarding folder structure or file names.

Playback stops, or audio cuts out.

- Use a card that has been formatted on this camera (p. 22).
- If you copy a movie to a memory card that reads slowly, playback may interrupt momentarily.
- You may experience frame dropping and audio breakup when playing back a movie on a computer with insufficient system resources.

List of Messages that Appear on the Screen

If error messages appear on the LCD monitor, try one of the following solutions.

No memory card

 The memory card is not installed in the correct direction. Install the memory card in the correct direction (p. 16).

Card locked!

The SD memory card or SDHC memory card's write protect tab is set to "Lock".
 Unlock the write protect tab (p. 18).

Cannot record!

 You attempted to shoot an image without the a memory card, or with a memory card installed incorrectly. Install the memory card in the correct direction when shooting (p. 16).

Memory card error (p. 52)

 Contact your Canon Customer Support Help Desk as there may be a problem with the camera.

Memory card full

There is not enough free space on the memory card to shoot (pp. 24, 55, 67, 81) or edit images (pp. 121 – 125). Erase the images (pp. 29, 112) to open space for new images, or insert an empty memory card (p. 16).

Change the battery pack (p. 16)

No image.

There are no images recorded on the memory card that can be displayed.

Protected! (p. 116)

Unidentified Image/Incompatible JPEG/Image too large./RAW

- Unsupported images or data, or corrupted image data cannot be displayed.
- Images manipulated on a computer, that have had their file name changed, or have been taken with a different camera may not display.

Cannot magnify!/Cannot rotate/Cannot modify image/Cannot register this image!/Cannot modify/Cannot assign to category

- Incompatible images cannot be magnified (p. 110), rotated (p. 120), edited (pp. 121 – 125), registered to the start-up screen (p. 142), categorized (p. 118), or added to a print list (p. 127).
- Images manipulated on a computer, that have had their file name changed, or have been taken with a different camera may not be magnified, rotated, edited, registered to the start-up screen, categorized, or added to a print list.
- Movies cannot be magnified (p. 110), edited (pp. 121 125), or registered to the start-up screen (p. 142).

Cannot select!

- When selecting the selection range (pp. 114, 117, 119), you tried to select a starting image that was after the last image or you tried to select an ending image that was before the starting image.
- You tried to select more than 501 images (pp. 114, 117, 119).

Too many marks.

You selected more than 998 images to print settings. Select less than 998 images (p. 127).

Cannot complete!

 Print settings could not be saved correctly. Reduce the number of settings and try again (p. 127).

Naming error!

• The file name could not be created because there is an image with the same name as the folder that the camera is attempting to create, or the highest possible file number has already been reached (p. 134). In the **ff** menu, change [File Numbering] to [Auto Reset] (p. 134) or format the memory card (pp. 22, 52).

Communication error

 Images could not be transferred to the computer or printed due to the large amount of images (approx. 1000) stored on the memory card. Use a commercially available USB card reader to transfer the images. Insert the memory card into the printer's card slot to print.

Lens error, restart camera

- A lens error was detected. Press the power button to turn the camera off and back on (p. 42). If this error message continues to display, contact your Canon Customer Support Help Desk as there may be a problem with the lens.
- This error can occur if you hold the lens while it is in motion or when using it in a location with excessive dust or sand in the air.

Exx (xx: number)

- A camera error was detected. Press the power button to turn the camera off and back on (p. 42).
- If an error code displays directly after taking a picture, the shot may not have been recorded. Check image in playback mode.
- If this error code reappears, note the number and contact your Canon Customer Support Help Desk as there may be a problem with the camera.

Please tilt camera gently!

 The camera was moved with too much force so that the images could not advance. Tilt the camera gently (p. 27).

Functions Available in Each Shooting Mode

Function	Shooting modes	AUTO	P	จ	FA	3
	Ş A	0	0	0	0	0
	\$		0	0	0	0
Flash (pp. 59, 69, 88)	↓ <u>*</u>		0	_	*2	Ĺ
	3	0	0	0	0	0
	All Range	0	_	_	_	_
- · - · · · · · · · · · · · · · · · · ·	MA.	_	0	0	0	С
Focusing Zone (pp. 69, 70)	₩	_	0	0	0	_
	A	_	0	0	0	_
Exposure Compensation (p. 76)/E	xposure Shift (p. 99)	_	0	0	0	С
Self-Timer (pp. 63, 64, 78, 79)	COFF	0	0	0	0	С
	<i>G</i>	0	0	0	0	С
	GO C2	0	0	0	0	С
	€ *1	0	0	0	0	С
AF Lock (p. 84)		_	0	_	_	_
AE Lock / FE Lock (pp. 87, 88, 99)	_	0	_	_	_
TV Display (p. 80)		0	0	0	0	С
Information Display (p. 44)	Information Display	0	0	0	0	0
iniormation Display (p. 44)	No Information Display	0	0	0	0	0
	FUNC. Menu					
ISO Speed (p. 74)	ESO AUTO	0	0	0	0	0
ISO Speed (p. 74)	150 150 150 150 150 150 80 100 200 400 800 1600		0	_	_	_
Mhita Balanca (n. 75)	AWB	0	0	0	0	С
White Balance (p. 75)	☀▲☀┈端凸	_	0	_	_	_
My Colors (p. 77)	AFF AV AN ASE ASW AP AL AD AB AG AR AC	_	0	_	_	-
Matariae Mada (n. 07)	(8)	0	0	0	0	С
Matarina Mada (n. 87)						

[][•]

 \Box

0

0 0 0 0

0 0 0 0 0

0 0 0 0 0

0 0 0 0 0

1280 640 320

L M1M2M3 S W

Recording Pixels (pp. 72, 98)

Metering Mode (p. 87)

Compression Ratio (Image Quality) (p. 72)

Drive Mode (p. 76)

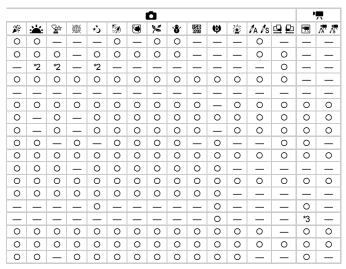
^{*1} Possible settings: 0 – 30 seconds in [Delay], and 1 – 10 shots in [Shots].

^{*2} Not selectable. However always set to [On] when the flash fires.

^{*3} FE lock is not available. *4 ISO3200 (p. 58) is set by default. *5 M3 is set by default.

^{*6} W is not selectable.

Functions Available in Each Shooting Mode



	FUNC. Menu														
0	0	0	0	_	0	0	0	0	*4	0	0	0	0	0	0
_	_	_	_	0	_	_	_	_	-	0	_	_	_	_	_
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
_	_	_	_	0	_	_	_	_	_	0	_	_	0	0	_
_	_	_	_	0	_	_	_	_	_	0	_	_	0	0	-
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
_	_	_	_	_	_	_	_	_	_	0	_	_	_	_	_
0	0	0	0	0	0	0	0	0	0	0	0	0	0		_
0	0	0	0	0	0	0	0	0	0	0	_	0	_		_
0	0	0	0	0	0	0	0	0	0	0	0	0	0		_
0	0	0	0	0	0	0	0	0	*5	*6	0	0	*6		_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	0	0

O Selectable — Not selectable

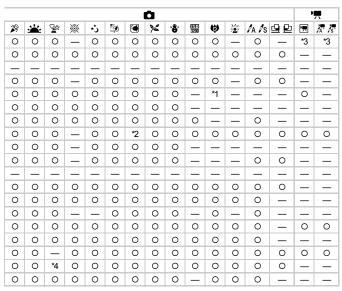
Menus

△ Shooting Menu

	Shooting modes	ATE:				
Function		AULU	Р	Ą	ZĄ	28
AF Frame (n. 92)	Face AiAF	0	0	0	0	0
AF Frame (p. 82)	Center	_	0	0	0	0
AF Frame Size (p. 82)	Normal/Small	_	0	_	_	_
Servo AF (p. 84)	On/Off	_	0	0	0	0
Digital Zoom (n. 60)	Standard/Off	0	0	0	0	0
Digital Zoom (p. 60)	1.5x / 2.0x	0	0	0	0	0
AF-Point Zoom (p. 83)	On/Off	0	0	0	0	0
AF-assist Beam (p. 137)	On/Off	0	0	0	0	0
Flack 0.460 - (22, 00, 400)	Red-Eye Corr. On/Off	0	0	0	0	0
Flash Settings (pp. 90, 136)	Red-Eye Lamp On/Off	0	0	0	0	0
i-Contrast (p. 89)	Off/Auto	*1	0	_	_	_
Review (p. 137)	Off/2 – 10 sec./Hold	0	0	0	0	0
Review Info (p. 137)	Off/Detailed/Focus Check	0	0	0	0	0
Blink Detection (p. 91)	On/Off	0	0	0	0	0
Dian Overlay (n. 139)	Off/Grid Lines	0	0	0	0	0
Disp. Overlay (p. 138)	3:2 Guide/Both	0	0	0	0	0
IS Mode (p. 139)	Continuous/Off	*1	0	0	0	0
13 Mode (p. 139)	Shoot Only/Panning	_	0	0	0	0
Date Stamp (p. 62)	Off/Date/Date & Time	0	0	0	0	0

^{*1} Always [On]. *2 Available when \$ is selected. *3 AiAF only.

^{*4 [}Panning] is not available.



O Selectable - Not selectable

የ† Set up Menu ■

Item	Options/Summary	Ref. Page
Mute	On/Off*	p. 49
Volume	Set all operation sounds (5 levels).	p. 49
Sound Options	Set the sounds played for each camera operation.	p. 141
LCD Brightness	Set within a range of ±2.	p. 50
Start-up Image	Add an image as start-up image.	pp. 141, 142
Hints & Tips	On*/Off	p. 134
Format	Formats card, erasing all data.	pp. 22, 52
File Numbering	Continuous*/Auto Reset	p. 134
Create Folder	Create New Folder/Auto Create	p. 135
Auto Rotate	On*/Off	p. 135
Lens Retract	1 min.*/0 sec.	p. 136
Power Saving	Auto Power Down: On*/Off Display Off: 10, 20 or 30 sec./1*, 2 or 3 min.	pp. 53, 132
Time Zone	Home/World	p. 133
Date/Time	Date and time settings.	p. 20
Video System	NTSC/PAL	p. 111
Language	Select displayed language.	p. 21
Reset All	Returns camera to default settings.	p. 51

^{*} Default setting

▶ Playback Menu

Item	Options/Summary	Ref. Page
Slideshow	Plays back images automatically.	p. 107
My Category	Categorizes images.	p. 118
Erase	Erases images.	p. 112
Protect	Protects images.	p. 116
i-Contrast	Corrects dark portions of images.	p. 124
Red-Eye Correction	Corrects red eyes in images.	p. 125
Trimming	Trims portions of images.	p. 122
Resize	Resizes and saves images.	p. 121
My Colors	Adjusts colors in images.	p. 123
Rotate	Rotates images.	p. 120
Active Display	On*/Off	p. 140
Resume	Last seen*/Last shot	p. 140
Transition	Scroll/ Slide/Fade/Off	p. 110

^{*} Default setting

♣ Print Menu

Item	Options/Summary	Ref. Page
Print	Displays printing screen.	p. 30
Select Images & Qty.	Selects individual images for printing.	p. 128
Select Range	Selects starting and ending images for printing.	p. 129
Select All Images	Selects all images for printing.	p. 129
Clear All Selections	Cancels all settings for printing.	p. 130
Print Settings	Sets the printing style.	p. 127

Handling Precautions

Equipment

- This camera is a high-precision electronic device. Do not drop it or subject it to strong impacts.
- Never place the camera close to magnets or motors that generate strong electromagnetic fields. Exposure to strong magnetic fields may cause malfunctions or corrupt image data.
- If water droplets have fallen or dirt is stuck on the camera or LCD monitor, wipe with a dry soft cloth or eyeglass wiper. Do not rub or apply force.
- Never use cleaners containing organic solvents to wipe the camera or LCD monitor.
- Use a commercially available blower brush to remove dust from the lens.
 For stubborn dirt contact the closest Canon Customer Support Help Desk as listed on the customer support leaflet supplied with your camera.
- When you move the camera rapidly from cold to hot temperatures, condensation may form on the internal or external surfaces of the camera.
 To avoid condensation, put the camera in an airtight, resealable plastic bag and let it adjust to temperature changes slowly before removing it from the bag.
- If condensation has formed, stop using the camera immediately.
 Continued use may damage the camera. Remove the battery and memory card, and wait until the moisture has completely evaporated before resuming use.

Memory Cards

- A memory card is a high-precision electronic device. Do not bend, apply force or subject it to strong impacts. Doing so may corrupt image data recorded on the memory card.
- Do not spill liquids on the memory card. Do not touch the memory card's terminals with your hands or metallic objects.
- Do not store memory cards near a TV, speakers or other devices that generate magnetic fields or static electricity. Doing so may corrupt image data recorded on the memory card.
- Do not store memory cards in hot, humid or dusty locations.

Specifications

Camera Effective Pixels......Approx. 12.1 million Approx. 12.4 million) 35mm film equivalent: 37 (W) - 185 (T) mm f/3.2 (W) - f/5.7 (T)with the optical zoom) viewing angle Approx. 461,000 dots. Picture coverage 100% AF Frame Mode......Face AiAF/Center Servo AF On / Off Focusing Range (from end of lens)... Normal: 50 cm (1.6 ft.) - infinity Macro: 2 - 50 cm (W) (0.79 in. - 1.6 ft.)Infinity: 3 m (9.8 ft.) - infinity Digital Macro: 2 – 10 cm (0.79 – 3.9 in.) (W) Kids&Pets: 1 m (3.3 ft.) - infinity Shutter Mechanical shutter and electronic shutter 15 – 1/1600 sec. (Total shutter speed range) Image Stabilization Lens-shift type Metering Type Evaluative, Center-weighted average or Spot Exposure Compensation ±2 stops in 1/3-stop increments ISO speed (Standard Output Sensitivity. Recommended Exposure Index)....Auto, ISO 80 / 100 / 200 / 400 / 800 / 1600 White Balance Auto, Day Light, Cloudy, Tungsten, Fluorescent, Fluorescent H, Custom Built-in Flash Auto, On, Slow Synchro, Off Red-eve reduction/Red-eve correction settings available 30 cm - 2.0 m (1.0 - 6.6 ft.) (T)Shooting Modes......Auto, Program AE, Portrait, Night Snapshot, Kids&Pets. Indoor, Sunset, Creative Light Effect. Fireworks, Long Shutter, Beach, Aquarium, Foliage, Snow, ISO3200, Digital Macro, Zoom

Blur, Color Accent, Color Swap, Stitch Assist, Movie
Continuous Shooting Approx. 1.0 images/sec.

i-Contrast Off/Auto

Specifications

Recording Media SD memory card, SDHC memory card, MultiMediaCard, MMCplus memory card, HC MMCplus memory card File Format.................................Design rule for camera file system and DPOF compliant Data TypeStill images: Exif 2.2 (JPEG) Movies: MOV (Image data: H.264, Audio data: Linear PCM) (Monaural) Compression Fine, Normal Number of Recording Pixels (Still images) Large: 4000 × 3000 pixels Medium 1: 3264 × 2448 pixels Medium 2: 2592 × 1944 pixels Medium 3: 1600 × 1200 pixels Small: 640 × 480 pixels Widescreen: 4000 × 2248 pixels 640 × 480 pixels (30 frames/sec.) 320 × 240 pixels (30 frames/sec.) Number of Possible Shots Approx. 270 images (Based on CIPA standardized measurement) Playback Function Single Image, Movie, Magnified Focus, Index, Magnified, Filtered, Slideshow, Active Display Editing Function Erase, Protect, My Category, Resize, My Colors, i-Contrast, Trimming, Rotate, Red-Eye Correction Direct Print Type PictBridge type of digital, audio and video*)

HDMI (HDMI Mini Connector)

* mini-B compatible

Video/Audio output: NTSC and PAL capable,

monaural

Communication Settings MTP, PTP

Power......Battery Pack NB-5L (rechargeable lithium-ion

battery)
AC adapter kit ACK-DC30

Operating Temperatures 0 – 40 °C (32 – 104 °F)

Dimensions (excluding protrusions). $.94.8 \times 56.8 \times 26.3 \text{ mm} (3.73 \times 2.24 \times 1.04 \text{ in.})$

Weight (camera body only) Approx. 160 g (5.64 oz.)

Battery Pack NB-5L

Type......Rechargeable lithium-ion battery

Battery Charger CB-2LX/CB-2LXE

0.05 A (240 V)

 Rated output
 .4.2 V DC, 0.7 A

 Charge time
 .Approx. 2 hours 5 min.

 Operating temperature
 .0 – 40 °C (32 – 104 °F)

Approx. 59 g (2.08 oz.) (CB-2LXE, excluding

power cord)

- All data is based on tests by Canon.
- The finished product, or exterior may differ from this report.

About MPEG-4 Licensing

This product is licensed under AT&T patents for the MPEG-4 standard and may be used for encoding MPEG-4 compliant video and/or decoding MPEG-4 compliant video that was encoded only (1) for a personal and non-commercial purpose or (2) by a video provider licensed under the AT&T patents to provide MPEG-4 compliant video. No license is granted or implied for any other use for MPEG-4 standard.

^{*} Notice displayed in English as required.



USA and Canada only:

The Lithium ion/polymer battery that powers the product is recyclable.

Please call 1-800-8-BATTERY for information on how to recycle this battery.

When connecting to and using a household power outlet, use only AC Adapter Kit ACK-DC30 (rated input: 100 – 240 V AC 50/60 Hz, rated output: 4.3 V DC). Using anything else can cause fire, overheating, or electrical shock.

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FCC Notice

(Digital Camera, Model PC1357 systems)

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.

Battery Charger CB-2LX

This product is not intended to be serviced. Should the product cease to function in its intended manner, it should be returned to the manufacturer or be discarded.

This power unit is intended to be correctly orientated in a vertical or floor mount position.

IMPORTANT SAFETY INSTRUCTIONS-SAVE THESE INSTRUCTIONS.

DANGER-TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS. For connection to a supply not in the U.S.A., use an attachment plug adapter of the proper configuration for the power outlet.

This battery charger is for exclusive use with Battery Pack NB-5L (1.12 Ah). There is a danger of explosion if other battery packs are used

Trademark Acknowledgments

- · The SDHC logo is a trademark.
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

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- Illustrations and screenshots in this guide may differ slightly from the actual equipment.
- Every effort has been made to ensure that the information contained in this guide is accurate and complete. However, if you notice any errors or omissions, please contact the Canon customer service center indicated on the customer support list included with the product.
- The above items notwithstanding, Canon accepts no liability for damages due to mistaken operation of the products.