Canon

PowerShot S90 Camera User Guide



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

ENGLISH

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.



Camera



Battery Pack NB-6L (with Terminal Cover)



Battery Charger CB-2LY/CB-2LYE



Interface Cable IFC-400PCU



AV Cable AVC-DC400



Wrist Strap WS-DC9



Getting Started



DIGITAL CAMERA Solution Disk



Warranty System Booklet

Using the Manuals

Also refer to the manuals on the DIGITAL CAMERA Manuals Disk.

Camera User Guide (This Guide)

Once you have mastered the basics, use the camera's many features to shoot more challenging photos.

Personal Printing Guide

Read when you want to connect the camera to a printer

- (sold separately) and print.
- Software Guide

Read when you want to use the included software.





- A memory card is not included.
- Adobe Reader is required to view the PDF manuals. Microsoft Word/ Word Viewer can be installed to view the Word manuals (required only for manuals for the Middle East).

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

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

For Canon Customer Support contacts, please see the Warranty System Booklet.

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.
- The LCD monitor may be covered with a thin plastic film for protection against scratches during shipment. If so, remove the film before using the camera.

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.

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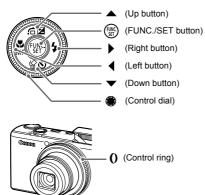
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Conventions Used in this Guide

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



- Troubleshooting tips.
- \(\begin{aligned}
 \begin{aligned}
 \begin{al
- (1): Things you should be careful about.
- (p. xx): Reference pages. "xx" stands for page number.
- This guide 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.

 \wedge

Warning Denotes the possibility of serious injury or death.

 Λ

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 could 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: 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 fire or electrical shock. 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 the recommended battery.
- 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 fire or electrical shock.

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 damage the camera or lead to injury.
- 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 of the battery, resulting in electrical shock, 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 fire, electrical shock or other damage.
- The slideshow transition effects may cause discomfort when viewed for prolonged periods.

- 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.
- Take care not to pinch your finger when the flash lowers. This could result in injury.



Caution

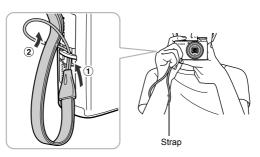
- Do not aim the camera at bright light sources (the sun. etc.). Doing so may cause malfunctions or damage the image sensor.
- When using the camera on a beach or at a windy location, be careful not to allow dust or sand to enter the camera.
- Do not forcibly push down or pull up the flash. This may 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 are left inside the camera, damage caused by leakage may occur.
- Before you discard the battery, cover the terminals with tape or other insulators. Contacting other metal materials in waste containers may lead to fire or explosions.
- Do not place the battery near pets. Pets biting the battery could cause leakage, overheating or explosion, resulting in fire or injuries.
- Do not sit in a chair with the camera in your pocket. Doing so may cause malfunctions or damage the LCD monitor.
- 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. Doing so 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

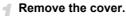
- Attach the included strap and place it around your wrist to avoid dropping the camera during use.
- Keep your arms tight against your body while holding the camera firmly by the sides. Be sure that your fingers do not block the flash.



Charging the Battery

Use the included charger to charge the battery. Be sure to charge the battery as it is not charged at the time of purchase.





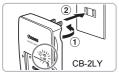


Insert the battery.

Align the

 marks on the battery and charger, then insert the battery by sliding it in

 in and down



CB-2LYE

Charge the battery.

- For CB-2LY: Flip out the plug ① and plug the charger into a power outlet ②.
- For CB-2LYE: 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. 1 hour and 55 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	220		
Playback Time (Hours)	5		

- * The number of shots that can be taken is based on the Camera & Imaging Products Association (CIPA) measurement standard.
- Under some shooting conditions, the number of shots that can be taken may be less than mentioned above.

Battery Charge Indicator

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

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



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.



Attach the cover to a charged battery so that the \blacktriangle mark is visible.

- 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.

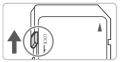
The charger can be used in regions that have 100 - 240 V (50/60 Hz) AC power. If the plug does not fit the outlet, use a commercially available plug adapter. Do not use electrical transformers for foreign travel as they will cause damage.

- 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.

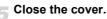
- Insert the battery as shown until it locks into place with a click.
- Be sure to insert the battery in the correct direction or it will not properly lock into place.



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.

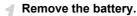




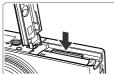
 Close the cover ①, and slide it ② until it locks into place with a click.

Removing the Battery and Memory Card





- 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	749	2994

- 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



Inserting the Battery and Memory Card

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 ON/OFF button
- The Date/Time screen will appear.





- Press the buttons to choose an option.
- Press the ▲▼ buttons or turn the ♠ dial to set a value.





Make the setting.

- Press the (st) button.
 - Once the date and time have been set. the Date/Time screen will close
- Pressing the ON/OFF 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.



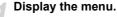
Daylight saving time settings

If you choose 🔆 in Step 2 and press the ▲▼ buttons or turn the 🏶 dial and choose *, you will set the time to daylight saving (1 hour ahead).

Changing the Date and Time

You can change the current date and time settings.





Press the MENU button.



Choose [Date/Time] in the †† tab.

- Press the ◀▶ buttons to choose the
 †
 tab.
- Press the ▲▼ buttons or turn the dial to choose [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 menu, 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 for 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 display language in the LCD monitor menus and messages.





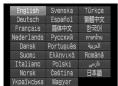
Press the button.





9	Display	the	settings	screen.

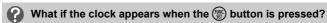
Press and hold the button 1, then immediately press the MENU button 2.



Set the display language.

- Press the ▲▼◀▶ buttons or turn the dial to choose a language, then press the button.
- Once the display language has been set, the settings screen will close.





The clock will appear if too much time passes between pressing the (button and the MENU button in Step 2. If the clock appears, press the button to remove the clock and repeat Step 2.



You can also change the display language by pressing the MENU button, choosing the \ref{tab} tab, and choosing 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 menu.

Press the MENU button.

Choose [Format].

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

Format the memory card.

- Press the ◀▶ buttons or turn the ♠ dial to choose [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.

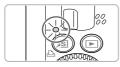


The total capacity of the memory card displayed in the formatting screen may be less than indicated on the memory card.

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 automatically focuses and 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.

Taking Pictures

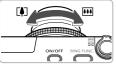
Since the camera can determine the subject and shooting conditions, you can let it automatically select the best settings for the scene and just shoot. The camera can also detect and focus on faces, setting the color and brightness to optimal levels.











Turn on the camera.

- Press the ON/OFF button.
- The start-up sound will play, and the startup screen will appear.

Choose (Mi) mode.

- Set the mode dial 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 the icon for the determined scene appears 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.
- A white frame will follow a detected face that is moving and the gray frames will disappear.

Compose the shot.

- Moving the zoom lever toward will zoom in on your subject, making it appear larger. Moving the lever toward will zoom out from your subject, making it appear smaller.
- You can turn the () ring to zoom in on your subject (Step Zoom, p. 64).







AF Frames



Focus.

- Press the shutter button halfway to focus (The flash will rise automatically in dark environments).
- 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.
- When a moving face is detected, and you keep the shutter button pressed halfway, a blue AF frame appears and the focus and exposure are continuously adjusted (Servo AF).

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 again.



What if...

• the flash rises and lowers automatically?

The flash will rise and lower automatically depending on the shooting scene and camera settings. If you attempt to push the flash down with your fingers or if you interfere with the moving flash, the warning [Wrong flash position Restart the camera] will appear on the screen.

Taking Pictures

- a flashing appears?
 - Attach the camera to a tripod so that the camera does not move and blur the image.
- 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, choose the **f†** tab, and then choose [Mute]. Press the **♦** buttons to choose [Off].

- 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 50 cm 6.5 m (1.6 21 ft.) at maximum wide angle, and approximately 50 cm 2.5 m (1.6 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 5 cm (1.97 in.) or more away from your subject and shoot. Move about 30 cm (0.98 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 \$ icon blinks when you try to shoot?
 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		ng Blue ies		Dark	
Subject			Backlit		Backlit	Sunsets		When Using Tripod
People			07/			_		<u>ت</u> .
	When Moving	PE	O₽/	P =	= 2	_	-	_
Subjects O People/Lan		AUTO	377	AUTO	7/1	51 / ₂	AUTO	○
Close Subjects		(4)	W	(*)	Win	_	(*)	_
Icon Background Color		Gı	ау	Light	Blue	Orange	Dark	Blue

^{*} Appears when the camera is attached to a tripod.

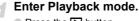


Under certain conditions, the icon that appears may not match the actual scene. Especially when there is an orange or blue colored background (a wall for example), when the "Blue Skies" icons may appear and it may not be possible to shoot with the appropriate color. If this happens, try shooting in **P** mode (p. 70).

Viewing Images

You can view your images on the screen.





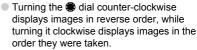
- Press the button.
- The last image you took will appear.



Choose 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.
- The images change more quickly if you keep the buttons pressed, but they will appear coarse.



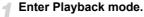
- Pressing the shutter button halfway in Playback mode switches the camera to Shooting mode.
- The lens will retract after approximately 1 minute elapses (If the flash has been raised, the flash will lower.).



Erasing Images

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





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



Choose an image to erase.

Press the ◀▶ buttons or turn the ● dial to display an image to erase.



Erase the image.

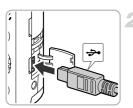
- Press the ▼ button.
- ► [Erase?] appears.
- Press the ◆▶ buttons or turn the ♣ dial to choose [Erase], then press the ♠ button.
- The displayed image will be erased.
- To exit instead of erasing, press the buttons or turn the dial to choose [Cancel], then press the button.

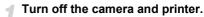




Printing Images

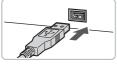
You can easily print the pictures you take by connecting the camera to a PictBridge compatible printer (sold separately) using the supplied interface cable (p. 2).





Connect the camera to the printer.

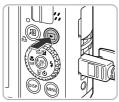
- Open the cover, and insert the small end of the plug firmly into the camera terminal in the direction shown.
- Insert the cable's larger plug into the printer. For connection details, refer to the user guide provided with the printer.



Turn on the printer.

■ Turn on the camera.

Press the button to turn on the camera.



Choose an image to print.

Press the buttons or turn the dial to choose an image.



Printing Images



Print images.

- Press the 占 button.
- Printing will start.
- 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 printing.
- Refer to p. 39 for Canon-brand Pictbridge compliant printers.

Shooting Movies

The camera can automatically select all settings so that you can shoot movies just by pressing the shutter button.



Shooting Time







Compose the shot.

- Moving the zoom lever toward will zoom in on your subject, making it appear larger. Moving the lever toward will zoom out from your subject, making it appear smaller.
- Using the same procedures found in Step 3 on p. 24, you can zoom in on your subject (Step Zoom, p. 64).

Focus

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

Shooting Movies



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.
- You can also zoom in and out with the zoom lever during shooting. However, you cannot use the () ring to zoom.
- Do not touch the microphone while shooting.
- Operational sounds 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	23 min. 49 sec.	1 hr. 35 min. 11 sec.

- Shooting times are based on default settings.
- Recording will automatically stop when either the clip file size reaches 4 GB or the recording time reaches approximately 1 hour.
- 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

Viewing Movies

You can view your movies on the screen.







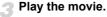


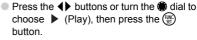


- Press the F button.
- The last image you shot will appear.
- management appears on movies.

Choose a movie.

- Press the buttons or turn the dial to choose a movie, then press the () button.
- The movie control panel will appear on the screen.





- The movie will play.
- You can pause/resume the movie by pressing the (str) button again.
- Press the ▲▼ buttons to adjust the volume



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 with the camera. 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. If you are already using ZoomBrowser EX/ImageBrowser/Digital Photo Professional, install the software from the included CD-ROM, overwriting your current installation.

System Requirements

Windows

OS	Windows Vista (including Service Pack 1 and 2) 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	1 GB or more		
Interface	USB		
Free Hard Disk Space	ZoomBrowser EX: 200 MB or more* PhotoStitch: 40 MB or more Digital Photo Professional: 200MB or more		
Display	1,024 x 768 pixels or higher		

^{*} For Windows XP, Microsoft .NET Framework 3.0 or later (max. 500 MB) must be installed. Installation may take some time depending on your computer's capabilities.

Macintosh

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	1 GB or more		
Interface	USB		
Free Hard Disk	ImageBrowser: 300 MB or more		
Space	PhotoStitch: 50 MB or more		
	Digital Photo Professional: 200MB or more		
Display	1,024 x 768 pixels or higher		

Preparations

Windows Vista and Mac OS X (v10.5) are used for these explanations.



Install the software.

Windows

- Place the DIGITAL CAMERA Solution Disk in the computer's CD-ROM drive.
 - Place the supplied CD-ROM (DIGITAL CAMERA Solution Disk) (p. 2) into the computer's CD-ROM drive.

Begin installation.

- Click [Easy Installation] and follow the onscreen instructions to proceed with the installation.
- If the [User Account Control] window appears, follow the on-screen instructions to proceed.
- When the install finishes, click [Restart] or [Finish].
- Remove the CD-ROM.
 - Remove the CD-ROM when your desktop screen appears.

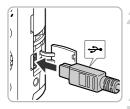




Macintosh

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

Transferring Images to a Computer



Connect the camera to the computer.

- Turn off the camera.
- Using the procedures from Step 2 on p. 29, connect the camera to the computer using the supplied interface cable.

Turn on the camera.

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



- Click [Downloads Images From Canon Camera using Canon CameraWindow].
- CameraWindow will appear.
- If CameraWindow does not appear, click the [Start] menu and choose [All Programs], followed by [Canon Utilities], [CameraWindow], [CameraWindow], [CameraWindow].



- 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).





Transfer Images



- Click [Import Images from Camera], and then click [Import Untransferred Images].
- All images that have not yet been transferred will transfer to your computer.
- After the transfer finishes, click [×] to close CameraWindow, then turn off the camera and unplug the cable.
- For further operations, refer to the Software Guide.



Changing the software that displays after images have been transferred



You can choose the software that displays after images have been transferred. Click the icon in the upper right corner of CameraWindow, then click [Import] in the screen that appears. Then, choose the [After Import] tab.
After making your settings, press [OK] and

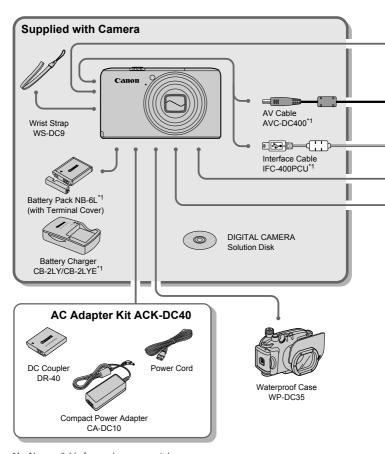
After making your settings, press [OK] and close the [Preferences] screen. Click the $[\times]$ icon to start the selected software.



You can transfer images without installing the included software by simply connecting your camera to a computer. There are, however, the following limitations.

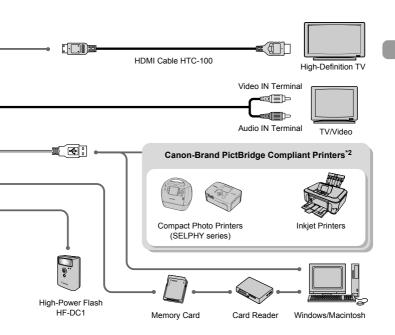
- After connecting to the camera, it may take a few minutes until you can transfer images.
- The camera information may not display correctly.
- Movies will not transfer correctly.
- Images shot vertically may be transferred in the horizontal orientation.
- Protection settings for images may be lost when transferred to a computer.
- RAW images or JPEG images recorded at the same time as RAW images may not transfer.
- There may be problems transferring images or image information correctly depending on the version of the operating system in use, the file size. or the software in use.

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-DC40

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 or printer. Cannot be used to charge the battery inside the camera.

Battery Charger CB-2LY/CB-2LYE

An adapter for charging Battery Pack NB-6L.

Battery Pack NB-6L

Rechargeable lithium-ion battery.

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.

Waterproof Case WP-DC35

Installing the camera into this waterproof case lets you take underwater shots at depths down to 40 meters (130 feet), or take worry-free pictures in the rain, at the beach, or on the ski slopes.

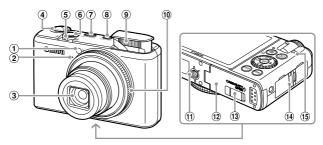
High-Power Flash HF-DC1

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 appears on the screen, as well as the basic operating instructions.

Components Guide



- 1 Lamp (Self-Timer Lamp (p. 67) / AF Assist Beam (p. 150) / Red-Eye Reduction Lamp (p. 151))
- ② Microphone (p. 32)
- 3 Lens
- (4) Mode Dial ⑤ Zoom Lever Shooting: 「♣☐ (Telephoto) / •••• (Wide Angle) (p. 24)
 - Playback: Q (Magnify) (p. 124) / (Index) (p. 118)

- 6 Shutter Button (p. 23)
- 7 RING FUNC. (Ring Function Selector) Button (p. 98)
- ON/OFF Button
- 9 Flash (pp. 61, 71, 94)
- (1) Control Ring (pp. 24, 64, 98)
- 11 Tripod Socket
- 12 Memory Card / Battery Cover (p. 16)
- (1) DC Coupler Terminal Cover (p. 160)
- (1) Strap Mount (p. 13)
- (15) Speaker

Mode Dial

Use the mode dial to change the Shooting mode.

P, Tv, Av, M, C Mode

You can make settings such as the shutter speed and aperture value in order to take the picture you want (pp. 70, 95, 96, 97, 104).

Auto Mode

You can leave it to the camera to select settings (p. 24).

Low Light Mode

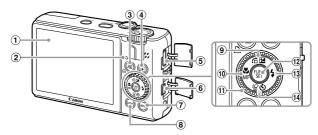
Allows you to shoot in dimly lit places with reduced camera shake and subject blur (p. 60).

Movie Mode

For shooting movies (pp. 31, 109).

Special Scene Mode

The camera can automatically select all settings appropriate for the conditions so that you can take images just by pressing the shutter button (p. 56).



- 1 Screen (LCD Monitor) (p. 44)
- 2 Indicator (p. 46)
- ③ S (Short Cut) Button (p. 153) / (Direct Print) Button (p. 29)
- 4 Playback) Button (pp. 27, 117)
- ⑤ HDMI Terminal (p. 126)
- 6 A/V OUT (Audio/Video Output) DIGITAL Terminal (p. 125)
- 7 MENU (Menu) Button (p. 48)
- (8) DISP. (Display) Button (pp. 44, 45)

- (9) (119) Button (p. 119) /
 - (Exposure) (p. 70) / A Button
- 10 (Macro) (p. 75) /
- MF (Manual Focus) (p. 89) / ◀ Button (1) Control Dial (p. 43)
- 12 (Function/Set) Button (p.47)
- (13) \$ (Flash) (pp. 61, 71, 94) / Button
- (Single Image Erase) Button (p. 28) / **♦** (Self-Timer) (pp. 66, 67) / ▼ Button

Control Dial

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

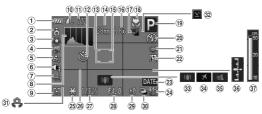


▶ Button

When the lens is extended, you can switch between Shooting and Playback modes. When the lens is retracted, you can use this button 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) White Balance (p. 77)
- 4 White Balance Correction (p. 78)
- ⑤ My Colors (p. 80) (6) i-Contrast (p. 100)
- 7 Drive Mode (p. 79)
- (8) Histogram (p. 46) 9 Metering Modes (p. 91)
- ① Compression (Image) Quality) (pp. 72, 111), Recording Pixels (p. 72)
- (1) Still Images: Recordable Shots (p. 17) Movies: Remaining Time / Elapsed Time (p. 32)
- (12) Self-Timer (pp. 66, 67)

(13) AF Frame (p. 25)

(p. 91)

- (14) Focal Length (p. 64) 15 Spot AE Point Frame
- ① Digital Zoom Magnification (p. 62) / Digital Tele-Converter (p. 63)
- (7) Focus Bracketing (p. 90)
- (8 Macro (p. 75), Manual Focus (p. 89) (19) Shooting Mode
- 20 Flash Mode (pp. 61, 71, 94)
- 21) Red-Eye Correction (p. 101)
- 22 Flash Exposure Compensation (p. 102). Flash Output (p. 103)

- 23 Date Stamp (p. 65)
- 24 ISO Speed (p. 76) 25 AE Lock (pp. 92, 112),
- FE Lock (p. 92)
- 26 Grid Lines (p. 152) 27 Shutter Speed (p. 95)
- 28 Aperture Value (pp. 96, 97)
- 29 Exposure Compensation (p. 70)
- 30 AEB Shooting (p. 93)
- 31 Camera Shake Warning (p. 161)
- 32 Blink Detection (p. 103) 33 Image Stabilizer (p. 153)
- 34 Time Zone (p. 148)
- 35 Wind Filter (p. 112)
- 36 Exposure Level Indicator (p. 97)
- 37 MF Indicator (p. 89)

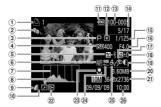
â : Standard, â â : Held vertically When shooting, the camera detects if it is held vertically or horizontally, and adjusts settings accordingly for the best shot. It also detects orientation during playback, so you can hold the camera in either orientation and it will automatically rotate images for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



Playback (Detailed Information Display)



- 1 Print List (p. 140)
- ② My Category (p. 132)
- 3 Shooting Mode4 ISO Speed (p. 76)
- (p. 70) / Exposure Shift Amount (p. 112)
- 6 White Balance (p. 77)
- 7 Histogram (p. 46)
- (pp. 135 139)
- Compression (Image Quality) (p. 72),
 - MOV (Movies)

- Λ.
- ® Recording Pixels (p. 72)Battery Charge Indicator (p. 15)
- 12 Metering Modes (p. 91)13 Folder Number File
- Number (p. 146)

 14 Displayed image number /
- Total number of images

 (5) Shutter Speed (p. 95)

 (6) Aperture Value, Image
- Quality (Movies) (p. 111)

 Red-Eye Correction
- (pp. 101, 139)
 (8) Flash (p. 71), Exposure Compensation (p. 102)

- (19) i-Contrast (pp. 100, 138)
- 20 File Size (p. 72)
- ② Still Images: Recording Pixels (p. 72) Movies: Movie Length (p. 111)
- 2 Protect (p. 127)
- 23 Macro (p. 75), Manual Focus (p. 89)
- 24 White Balance
- Correction (p. 78)
- 29 My Colors (pp. 80, 137) 26 Shooting Date and Time
 - (p. 65)

Switching the Display

You can change the display using the DISP. button.





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

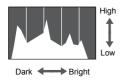
Display in Dark Conditions during Shooting

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.
- The histogram can also be displayed while shooting (p. 152).

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. 25)/Display Off (p. 148)		
	Blinks	Recording/reading/transmitting image data (pp. 25, 36)		
Orange	Lights	Shooting preparation complete (flash on) (p. 25)		
	Blinks	Camera shake warning (p. 61)		



When the indicator blinks green, data is being recorded/read 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.

FUNC. Menu - Basic Operations

Commonly used shooting functions can be set with the FUNC. menu. The menu items and options differ depending on the mode (pp. 166 - 169).



Choose a shooting mode.

Set the mode dial to the desired shooting mode



Display the FUNC. menu.

Press the (SE) button.



Choose a menu item.

- Press the ▲▼ buttons to choose a menu. item
- The available options for the menu item appear in the lower part of the screen.



Choose an option.

- Press the buttons or turn the dial to choose an option.
- You can also choose settings by pressing the DISP, button on options that display DISP.







Make the setting.

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

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 available menu items differ depending on the mode (pp. 168 – 171).







Turns on camera sounds







Display the menu.

Press the MENU button.

Choose a tab.

- Press the ◀▶ buttons, or move the zoom lever (p. 42) left or right to choose a tab.
- Choose a menu item.
 - Press the ▲▼ buttons or turn the dial to choose a menu item.
 - Some items require you to press the ⊕ button or ▶ button to display a submenu in which you change the setting.

Choose an option.

- Press the buttons to choose an option.
- Make the setting.
 - Press the MENU button.
 - The normal 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.
 - Choose [Mute].
 - Press the ◀▶ buttons to choose the f† tab.
 - Press the ▲▼ buttons or turn the dial to choose [Mute], then press the ◀▶ buttons to choose [On].

Adjusting the Volume







- Display the menu.
 - Press the MENU button.
- Choose [Volume].
 - Press the ◀▶ buttons to choose the
 † tab.
 - Press the ▲▼ buttons or turn the ❸ dial to choose [Volume], then press the ∰ button.
- Change the volume.
 - Press the ▲▼ buttons or turn the dial to choose an item, then press the ◀▶ buttons to adjust the volume.

Changing the Screen Brightness

The screen brightness can be changed in two ways.

With the Menu







Display the menu.

Press the MENU button.

Choose [LCD Brightness].

- Press the buttons to choose the tab.
- Press the ▲▼ buttons or turn the dial to choose [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 ft 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 chosen in the **f†** tab.
- When you have set the brightness to its highest setting in the \(\frac{1}{1} \) tab, you cannot change the brightness with the DISP, button.

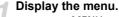
Returning the Camera to Default Settings

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









- Press the MENU button.
- Choose [Reset All].
 - Press the ◆ buttons to choose the ↑↑ tab.
 - Press the ▲▼ buttons or turn the dial to choose [Reset All], then press the ⊕ button.



Reset the settings.

- Press the ◀▶ buttons or turn the ♠ dial to choose [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. 125), [Time Zone] (p. 148), the image registered as [Start-up Image] (p. 156).
- The saved data for custom white balance (p. 77).
- Colors that were chosen in Color Accent (p. 105) or Color Swap (p. 106).

Low Level Memory Card Formatting

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







Display the menu.

- Press the MENU button.
- Choose [Format].
 - Press the ♠ buttons to choose the ↑↑ tab.
 - Press the ▲▼ buttons or turn the dial to choose [Format], then press the ⊕ button.



Perform the low level format.

- Press the ▲▼ buttons or turn the dial to choose [Low Level Format], then press the ◀▶ buttons to display √.
- Press the ▲▼◀▶ buttons or turn the ⊕ dial to choose [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 choosing [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. If the flash has been raised, the flash will lower.

When the monitor has turned off but the lens has not yet retracted, 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. 147).
- You can adjust the time before the monitor turns off (p. 148).

Clock Functions

You can check the current time.



- Press and hold the button.
- A screen like that on the left appears showing the current time.
- If you hold the camera vertically while using the clock function, it will switch to vertical display. Press the ◀▶ buttons or turn the ∰ dial to change the display color.
- Press the (st) button to cancel the clock display.



When the camera power is off, press and hold the (**) button, then press the ON/OFF 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 common functions, such as the flash and self-timer.

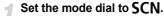


- When you choose a Shooting mode that matches a particular set of conditions, the camera will automatically select any necessary settings.
 All you need do is press the shutter button to take an optimized picture.
- This chapter assumes the mode is set to (P) for "Turning the Flash Off" (p. 61) to "Using the Face Self-Timer" (p. 67). When shooting in a scene mode, check which functions are available in that mode (pp. 166 169).

Shooting in Various Conditions

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







Choose a Shooting mode.

- Turn the dial to choose a shooting mode.
- Shoot.



Take portraits (Portrait)

 Produces a soft effect when photographing people.



Take landscapes (Landscape)

Lets you shoot majestic landscapes.



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.

Rake indoor shots (Indoor)

Lets you shoot indoors with natural colors.

Lack Shoot sunsets (Sunset)

 Lets you take shots of sunsets in vivid colors.

▼ Take nightscapes (Night Scene)

- Lets you take beautifully lit city nightscapes or night backgrounds.
- You can also take beautifully lit pictures of people along with the backgrounds due to the slower shutter speed.

Take shots of fireworks (Fireworks)

Lets you take shots of fireworks in vivid colors

Shooting in Various Conditions











Take shots of people at the beach (Beach)

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

Shoot underwater (Underwater)

 When using the Waterproof Case WP-DC35 (sold separately), you can shoot underwater landscapes and creatures with natural tones.

Take shots of aquatic life in an aquarium (Aquarium)

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

★ 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.



- In M mode, make sure the subject does not move until the shutter sound plays, even after the flash fires.
- In
 on 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. 153).

Shooting with Faded Colors (Nostalgic)

This effect fades the colors and roughens the image so that you can take a picture that seems to be many years old. You can choose from 5 effect levels.



Choose .

- Use Step 2 on p. 56 to choose §.
- Apply the effect.
- Turn the () ring to choose the effect level.
- Shoot.

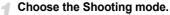


- Digital zoom (p. 62), date stamp (p. 65), and red-eye correction (p. 101) are not available.
- In the shooting screen, the colors will change, but the roughness will not display. You can check the roughness in image playback (p. 27).
- In some cases, you may not obtain the expected result.

Shooting in Mode (Low Light Mode)

The ISO speed will be set automatically between ISO320 and ISO12800. Depending on the scene, the ISO speed will be set higher and the shutter speed faster than in **QUD** mode so that you can shoot in dark places with reduced camera shake and subject blur. Recommended for shooting in candlelight or similarly lit scenes.





Set the mode dial to :: ...



Shoot.



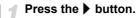
- In Low Light mode, recording pixels are fixed to **M** (1824×1368).
- By pressing the

 button, you can choose either
 △ or
 △ In either case, the focusing range from the end of the lens will be approximately 5 cm (2.0 in.) infinity at maximum wide angle, and approximately 30 cm (12 in.) infinity at maximum telephoto.

Turning the Flash Off

You can shoot with the flash turned off.









- Press the ♠ buttons or turn the ♠ dial to choose ♠, then press the ♠ button.
- If the flash has been raised, the flash will lower automatically.
- ▶ 🕏 will appear on the screen.
- Follow the steps above to return the setting to \$\frac{1}{2}^A\$.





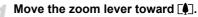
What if the indicator blinks orange and a flashing \mathbb{Q} appears?

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 15x 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.
- ▶ The zoom will stop when the largest possible zoom factor without image deterioration has been reached, and the zoom factor will appear.



Move it toward [♠] again.

▶ The digital zoom will zoom in even further on the subject.

Zoom Factors at which Images Deteriorate

Recording Pixels	Optical Zoom (28 – 105 mm)*	Digital Zoom (105 – 420 mm)*
L	3.8x →	
M1	3.8x →	
M2		5.3x→
M3		8.7x →
S		15x →

: No image deterioration (zoom factor appears white)

: Image deterioration (zoom factor appears blue)

→ : Maximum zoom factor without deterioration (Safety Zoom)

^{*} Focal length (35mm equivalent)



Turning off the digital zoom

To turn off the digital zoom, press the **MENU** button, choose the **1** tab, and choose [Digital Zoom] and the [Off] option.

Digital Tele-Converter

The focal length of the lens can be increased by an equivalent of 1.4x or 2.3x. 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.







Choose [Digital Zoom].

- Press the MENU button.
- Press the ◀▶ buttons to choose the tab, then press the ▲▼ buttons or turn the dial to choose [Digital Zoom].

Accept the setting.

- Press the ◀▶ buttons to choose [1.4x] or [2.3x].
- Pressing the MENU button will restore the shooting screen.
- ► The view will be enlarged and the zoom factor will appear on the screen.
- To return to standard digital zoom, choose [Digital Zoom] and the [Standard] option.

Combinations that Cause Image Deterioration

- Using [1.4x] at a recording pixel setting of L or M1 will cause image deterioration (the zoom factor will display in blue).
- Using [2.3x] 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 [1.4x] and [2.3x] are 39.2 147 mm and 64.4 – 241.5 mm (35mm film equivalent).
- The digital tele-converter cannot be used together with the digital zoom.

Shoot Using Preset Focal Lengths (Step Zoom)

You can shoot using preset focal lengths of 28mm, 35mm, 50mm, 85mm or 105mm (35mm film equivalents). This feature is useful when you want to shoot at a particular focal length.



Choose a focal length.

- Turn the () ring.
- Turn the () ring counter clockwise until you hear a clicking sound and the focal length changes from 28mm to 35mm. If you continue to turn the () ring, the focal length will be set to 50mm, 85mm, and 105mm.



- While in digital zoom (p. 62), turning the () ring counterclockwise will not change the zoom settings. However, turning clockwise will set the focal length to 105mm.
- When shooting movies (p. 31), you cannot change the focus with the () ring.

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).









Choose [Date Stamp].

- Press the MENU button.
- Press the ◆ buttons to choose the tab, and press the ▲ buttons or turn the dial to choose [Date Stamp].

Accept the setting.

- Press the ◀▶ buttons to choose [Date] or [Date & Time].
- Press the MENU button again to accept the setting.
- ► [DATE] will appear on the screen.

Shoot.

- ▶ The shooting date and time will be recorded in the image's lower right corner.
- To restore to the original setting, choose [Off] in Step 2.



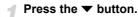
Inserting and printing the date and time in images without an embedded date and time

- Use the DPOF print settings (p. 141) to print.
- Use the included software to print.
 Refer to the Software Guide for details.
- Connect the camera to a printer to print.
 Refer to the Personal Printing Guide for details.

Using the Self-Timer

Use the self timer for pictures where the photographer is also included in the shot. You can set the time delay between when the shutter button is pressed and the shot is taken (0-30 seconds) and also the number of shots (1-10 shots).









- Press the ▲▼ buttons or turn the dial to choose ♦.
- Quickly turn the () ring to choose the time delay, then press the ◀▶ buttons to choose the number of shots and press the button.





Shoot.

- Press the shutter button halfway to focus on the subject, then press it fully.
 - 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 cancel shooting with the self-timer after countdown has started, press the ▼ button.
- To restore the original setting, choose in Step 2.







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.

Using the Face Self-Timer

Once you compose the shot, such as for a group photo, press the shutter button, and enter the composition, the camera will take three shots in a row two seconds after it detects your face (p. 84).





Choose 😭.

Follow Step 2 on p. 66 and choose Q.

Compose the shot and press the shutter button halfway.

 Make sure a green frame appears on the face focused on 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.

Using the Face Self-Timer



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.
- To cancel shooting with the self-timer after countdown has started, press the ▼ button.
- The second and third shots will continue in succession.
- To restore the original setting, choose in Step 2 on p. 66.



Change the number of shots

After the screen in Step 1 has been displayed, press the ◀▶ buttons quickly to change the number of shots, then press the ∰ button to set.



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.

Choosing 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 dial is set to P.
- 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. 166 – 169).

Shooting in Program AE

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



- Set the mode dial to P.
- Adjust the settings according to your purposes (pp. 71 – 81).
 - Shoot.



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

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

- Turn on the flash (p. 71)
- Choose a higher ISO speed (p. 76)

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.



Adjust the brightness.

Turn the dial to adjust the brightness.



You can also adjust the exposure using the () ring (p. 98).

Turning the Flash On

You can make the flash fire every time you shoot. At maximum wide angle, the flash range is approximately 50 cm - 6.5 m (1.6 - 21 ft.), and at maximum telephoto, it is 50 cm - 2.5 m (1.6 - 8.2 ft.)



Choose \$.

- After pressing the ▶ button, press the ◀▶ buttons or turn the ❸ dial to choose ❖, then press the ∰ button.
- If the flash has been lowered, the flash will rise automatically.
- ▶ Once set, \$\forall \text{ will appear.}

Changing the Recording Pixels (Image Size)

You can choose from seven recording pixels (image size) settings.



Choose the recording pixels.

- Choose an option.
 - Press the buttons or turn the dial to choose an option, then press the button.
 - The setting you chose will display on the screen.



If you choose \mathbf{M} , you cannot use Digital Zoom (p. 62) or Digital Tele-Converter (p. 63).

Changing the Compression Ratio (Image Quality)

You can choose from the following two levels of compression ratio (image quality): \blacksquare (Fine), \blacksquare (Normal).



Choose the recording pixels.

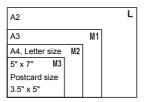
- Choose the image quality.
 - Press the DISP. button.
 - Press the ◀▶ buttons or turn the ♣ dial to choose an option, then press the ♠ button.
 - The setting you chose will display on the screen.

Approximate Values for Recording Pixels and Compression Ratio

Recording Pixels	Compression Ratio	Single Image Data	Number of Recordable Images	
	Ratio	Size (Approx. KB)	2 GB	8 GB
L (Large)	4	2565	749	2994
10 M/3648 x 2736	4	1226	1536	6140
M1 (Medium 1)	4	1620	1181	4723
6 M/2816 x 2112	4	780	2363	9446
M2 (Medium 2)	4	1116	1707	6822
4 M/2272 x 1704	- 4	556	3235	12927
M3 (Medium 3)	4	558	3235	12927
2 M/1600 x 1200		278	6146	24562
S (Small)	4	150	10245	40937
0.3 M/640 x 480	4	84	15368	61406
W (Widescreen)	4	1920	1007	4026
3648 x 2048	4	918	2048	8187
(RAW) 3648 x 2736	-	12825	135	540
+ L 3648 x 2736	-	15390	113	455

[•] 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.

Shooting in RAW

A RAW image is raw data recorded with nearly no deterioration in image quality resulting from image processing inside the camera. You can use the supplied software to broadly adjust the image with minimal loss in image quality.









Differences between RAW images and JPEG images.

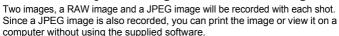
JPEG Images (L M1M2M3 S ™)

When JPEG images are recorded, the images are processed inside the camera for optimum image quality, and also compressed to allow a larger number of images to be stored on the memory card. However, the compression process is irreversible. meaning that the raw data cannot be recovered once it has been compressed. Moreover, the image processing results in a deterioration in quality.

RAW Images ()

A RAW image is raw data recorded with nearly no deterioration in image quality resulting from image processing inside the camera. This data cannot be used as is for viewing or printing on a computer. The supplied software (Digital Photo Professional) must first be used to convert the image data to a JPEG or TIFF file. When converting the image data, you can adjust the image with minimal deterioration in image quality.

Simultaneously Recording RAW and JPEG Images



The file extension for RAW images is ".CR2", and the extension for JPEG images is ".JPG". The JPEG images will be recorded with L recording pixels with **a** image compression.



Choose [Record M + 1].

Press the MENU button, and choose [Record | + 1] from the tab and press the **\Delta** buttons to choose [On].



Be sure to use the supplied software to transfer both the RAW images and the JPEG images that were recorded at the same time.



Shooting Close-ups (Macro)



Choose 🖏.

- After pressing the ◀ button, press the ◀ buttons or turn the ⊕ dial to choose ➡, then press the ∰ button.
- Once set, will appear.



How can I take better close-ups?

- It is recommended to attach the camera to a tripod to prevent the camera from moving and blurring the image.
- You can reduce the AF frame size when you want to focus on a specific portion of the subject (p. 84).



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

Changing the ISO Speed



Choose the ISO speed.

Turn the () ring to choose the ISO speed.

ISO AUTO	Automatically adjusts the ISO speed to the Shooting mode and shooting conditions.		
150 <u>150</u> 80 200	Low	Fine weather conditions, outdoor shooting.	
150 – 150 250 – 800	1 [Cloudy, Twilight	
1000 — 150 1000 — 3200	High	Nightscapes, Dark interiors	

8

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. If is insufficient to reduce blurring, you are recommended to use ^{*∆*} mode (p. 60).



- You can also set the ISO speed by pressing the ⊕ button and choosing ♀ Press the ◆ buttons or turn the () ring or ⊕ dial to choose a setting, then press the ⊕ button again. Press the DISP, button while in the setting screen to set .
- When the camera is set to (since), you can press the shutter button halfway
 to display the automatically set ISO speed.
- In the mode (p. 60), depending on the scene, the ISO speed will be set higher than in (AUTO) mode.

Adjusting the White Balance

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



Choose the white balance.

- After pressing the (button, press the buttons to choose WB.
- Choose an option.
 - Press the ◀▶ buttons or turn the dial to choose an option, then press the (button.
 - The setting you chose 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
1111	Fluorescent	Warm-white fluorescent, cool-white fluorescent, warm-white-type (3-wavelength) fluorescent lighting
※	Fluorescent H	Daylight fluorescent, daylight-type (3-wavelength) fluorescent lighting
4	Flash	When shooting with the flash.
(k	Underwater	Underwater Sets the optimum white balance for taking pictures underwater. Reduces blue tones to produce natural, vibrant hues.
	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 light source of the actual scene you will shoot.



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



If you change camera settings after recording white balance data, the tone may not turn out properly.

Manually Correcting the White Balance

You can correct the white balance. This adjustment will have the same effect as using a commercially-available color temperature conversion filter or color compensating filter.





Correct the White Balance.

- In Step 1 on p. 77, choose \(\) and turn the () ring to adjust the B and A correction.
- ► The ₩ icon displays on the screen.
- For even more specific adjustments, press the DISP, button.
- ▶ The selection screen appears.
- Turn the () ring and () dial or press the
 buttons to adjust the level of correction.
- To reset the correction level, press the MENU button.
- Press the DISP, button to complete the setting.



- B stands for blue, A for amber, M for magenta, and G for green.
- Even if you change the white balance setting in Step 1 on p. 77 after making adjustments in the correction level, those adjustments will be retained. However, the adjustments will be reset if Custom White Balance data is recorded.
- You can also assign white balance correction to the () ring (p. 98).
- One level of the blue/amber correction is equivalent to 7 mireds of a color temperature conversion filter. (Mired: Measuring unit indicating the density of a color temperature conversion filter.)

Continuous Shooting

You can shoot continuously at a fixed interval.



Choose a Drive mode.

- After pressing the (button, press the buttons to choose □.
- Choose an option.
 - Press the ◆ buttons or turn the ♣ dial to choose ☐ or ♣ , then press the ♠
 button.

Shoot.

As long as you hold the shutter button down, the camera will shoot successive images.

Drive Mode		Description		
☐ Continuous	Approx. 0.9 images/sec.	For continuous shooting, the focus and exposure are locked when the shutter button is pressed halfway.		
Continuous Shooting AF	Approx. 0.6 images/sec.	The camera shoots continuously and focuses. The [AF Frame] is set to [Center].		
Continuous Shooting LV	Approx. 0.6 images/sec.	The camera shoots continuously with the focus fixed to the position set in manual focus.		



- Cannot be used with the self-timer (pp. 66, 67).
- In the mode (p. 60), the shooting intervals will be faster.
 - As the number of images increases, the shooting intervals may take longer.
 - If the flash fires, shooting intervals may take longer.
 - When in $rac{8}{3}$, AF Lock (p. 86), or manual focus (p. 89) modes $rac{8}{3}$ will change to $rac{1}{3}$.

Changing the Tone of an Image (My Colors)

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



Choose My Colors.

After pressing the (⊕) button, press the
 ▲▼ buttons to choose ôff.

Choose an option.

- Press the ◀▶ buttons or turn the ♠ dial to choose an option, then press the ♠
- The setting you choose will display on the screen.

€0FF N	My Colors Off	_
Av V	/ivid	Emphasizes the contrast and color saturation for a vivid impression.
₽ _N N	Neutral	Tones down the contrast and color saturation for neutral hues.
€se S	Sepia	Sepia tones.
ÆW E	3/W	Black and white.
₽ _P F	Positive Film	Combines the effects of Vivid Red, Vivid Green and Vivid Blue to produce intense natural appearing colors like those obtained with positive film.
AL L	ighter Skin Tone	Makes skin tones lighter.
₽D [Darker Skin Tone	Makes skin tones darker.
₽ _B \	/ivid Blue	Emphasizes blue tints. Makes the sky, ocean and other blue subjects more vivid.
₽ _G \	/ivid Green	Emphasizes green tints. Makes mountains, foliage and other green subjects more vivid.
₽R \	/ivid Red	Emphasizes red tints. Makes red subjects more vivid.
Ac c	Custom Color	You can adjust contrast, sharpness, and color saturation etc. to your preference (p. 81).



- Not available when shooting in <a>\text{RW}
- The white balance cannot be set in the \mathcal{L}_{Se} and \mathcal{L}_{W} modes (p. 77).
- In the \(\textit{\mathcal{B}}\)_L and \(\textit{\mathcal{B}}\)_D mode, 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 chosen and set from 5 different levels.



- Follow Step 2 on p. 80 to choose $\mathcal{A}_{\mathbb{C}}$, then press the DISP, button.
- Press the ▲▼ buttons to choose an option, then press the ◀▶ buttons or turn the dial to choose 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 a TV Monitor

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

- Connect the camera to a TV as described in "Viewing Images on a TV" (p. 125).
- Shooting procedures are the same as when using the camera's monitor.



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

Changing the Composition with the Focus Lock

While you keep the shutter button pressed halfway, the focus and exposure are locked. You can now recompose and shoot. This is called Focus Lock.





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



Recompose.

 Keep 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 dial is set to P.
- The sections "Setting the Shutter Speed" (p. 95), "Setting the Aperture Value" (p. 96), "Setting the Shutter Speed and Aperture Value" (p. 97), assume that the mode dial is set to these modes.
- The section "Adjusting the Flash Output" (p. 103) assumes that the mode dial is set to M.
- The explanations for "Changing the Color and Shooting" (p. 105) and "Shooting Stitch Assist Images" (p. 108) assumes the mode dial is set to SCN, and that the scene mode for the respective function has been chosen.
- 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. 166 – 169).

Changing the AF Frame Mode

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



Choose [AF Frame].

Press the MENU button, choose the tab, and then choose the [AF Frame] menu item. Press the ◆▶ buttons to choose 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 or 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 locked to the center. This is effective for focusing on a specific point.



You can reduce the AF frame size

- Press the MENU button, choose the tab, then choose the [AF Frame Size] menu item and [Small] option.
- The setting is configured to [Normal] when the Digital Zoom (p. 62), Manual Focus (p. 89) or Digital Tele-converter (p. 63) is used.



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

Magnifying the Focal Point

You can push the shutter button halfway to magnify the AF frame and check the focus.





Press the MENU button, choose the tab, and then choose the [AF-Point Zoom] menu item. Press the ◆▶ buttons to choose [On].



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] if a face cannot be detected or is too big in relation to the screen (p. 84). In [Center], it will not appear magnified if the camera cannot focus.



The magnified display will not appear when using Digital Zoom (p. 62) or Digital Tele-Converter (p. 63), Servo AF (p. 87), or when connected to a TV (p. 81).

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.
- and the MF indicator appear. You can check the distance to the subject.

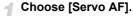


Compose the scene and shoot.

Shooting with Servo AF

While the shutter button is pressed halfway, the focus and exposure will continue to adjust, allowing you to take pictures of moving subjects without missing a shot.





 Press the MENU button and choose [Servo AF] from the tab, and press the
 buttons to choose [On].

Focus.

- The focus and exposure will be maintained where the blue AF frame appears while you press the shutter button halfway.
- If a face is not detected when AF Frame is set to [Face AiAF] (p. 84), the AF frame will be set to Center



- The camera may not be able to focus in some conditions.
- If a correct exposure cannot be obtained, the shutter speed and aperture value display in orange. Release your finger from the shutter button, then press it again halfway.
- You cannot shoot with the AF lock in this mode.
- While in Servo AF mode, [AF-Point Zoom] in the tab cannot be set to [On].
- Not available in Self-timer (pp. 66, 67) or Manual Focus (p. 89).

Choosing the Person to Focus On (Face Select)

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

Register [3] to the 🔊 button (p. 153).

Set Face Select mode.

- Point the camera toward the face of the subject and press the \$\int \sigma\$ button.
- After [Face Select : On] displays, a white face frame will appear around the face detected as the main subject.
- Even if the subject moves, the face frame will follow the subject within a certain range.
- If a face is not detected, will not appear.

Choose the face on which to focus.

- If you press the \(\square\) button, the face frame will move to another face detected by the camera.
- When the frame has scrolled through all the detected faces, [Face Select: Off] will display, and face select will be disabled.

Shoot.

- Press the shutter button halfway. The face frame of the chosen face will change into a green
- Press the shutter button fully to shoot.







Confirming the number of detected faces

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



Cannot be used when in . Stitch Assist or Movie modes.

Shooting in Manual Focus Mode

You can use manual focus when auto focus is not possible. If you press the shutter button halfway after roughly focusing manually, you can fine tune the focus.







Choose Ma.

- After pressing the ■ button, press the buttons or turn the dial to choose M. then press (button.
- MI and the MF indicator will appear.

Focusing roughly.

- Using the bar that shows the distance display and AF point zoom as a guide, turn the mail dial while looking at the magnified display to adjust the focus.
- The image at the center of the AF frame is displayed enlarged.

Fine tuning the focus.

If you press the shutter button halfway. you can fine tune the focus (Safety MF).



- You can also focus using the () ring (p. 98).
- You cannot change the AF frame setting or size while focusing manually (p. 84). If you want to change the AF frame mode or size, cancel Manual focus mode first
- In order to focus accurately, you are recommended to fix the camera to a tripod.
- Magnified display cannot be used with the Digital Zoom (p. 62), the Digital Tele-Converter (p. 63) or when connected to a TV (p. 81), however the focus can be adjusted.
- If [MF-Point Zoom] is set to [Off] in the tab. the magnified display will not be available.
- If [Safety MF] is set to [Off] in the tab, you will not be able to fine tune the focus even if you press the shutter button.

Focus Bracketing (Focus-BKT Mode)

The camera automatically takes three continuous shots in the following order: one at the manual focus position, and one each with focus positions preset farther and nearer. The focus adjustment can be set in 3 levels.







After pressing the ∰ button, press the ▲▼ buttons to choose ∰, then press the ◀▶ buttons or turn the ∰ dial to choose 록.

Set the focus adjustment level.

- Press the DISP, button.
 - Press the buttons or turn the dial.
 - Pressing the ▶ button will widen the interval, and pressing the ◀ button will narrow the interval. The camera will focus on the spot nearest the center (where the focus is set).



Shoot in manual focus. (p. 89)



- In flash settings other than ③ (p. 61), Focus Bracketing is not available.
- Continuous shooting (p. 79) cannot be used in this mode.

Changing the Metering Mode

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



Choose the Metering mode.

After pressing the (button, press the buttons to choose).

Choose an option.

- Press the ◀▶ buttons or turn the ❸ dial to choose an option, then press the ☺️ button.
- The setting will display on the screen.

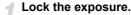
Evaluative	Suitable for standard shooting conditions, including back lit shots. Automatically adjusts the exposure to match the shooting conditions.
Center Weighted Avg.	Averages the light metered from the entire frame, but gives greater weight to the center.
[•] Spot	Only meters within the [] (Spot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

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".







- Point the camera toward the subject and press the button while pressing the shutter button halfway.
- ▶ When ★ appears, the exposure will be set.
- If you release your finger from the shutter button and press another button, *X will disappear and the AE will unlock.
- Compose the scene and shoot.



If you lock the exposure and then turn the **(*)** dial, you can change the shutter speed and aperture value combination.

Shooting with the FE Lock

Just as with the AE lock (p. 92), you can lock the exposure for shooting with the flash. FE stands for "Flash Exposure".

¶ Choose ♣ (p. 71).





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 ★ appears, the flash output will be retained.
- If you release your finger from the shutter button and press another button, ** will disappear and the FE will unlock.
- Compose the scene and shoot.

Auto Exposure Bracketing (AEB Mode)

The camera takes 3 continuous shots while automatically adjusting the exposure to standard exposure, underexposure and overexposure, in that order.







After pressing the ∰ button, press the
 ▲▼ buttons to choose ∰, then press the
 ♦▶ buttons or turn the ♠ dial to choose ☒.

Set the exposure compensation amount.

- Press the DISP, button.
- Press the buttons or turn the dial to adjust the setting.
- From the exposure set by the camera, you can adjust the amount of compensation ±2 stops in 1/3-stop increments. If exposure compensation (p. 70) is already being used, settings are made with the compensated value as the base.



- In flash settings other than **(3)** (p. 61), AEB is not available.
- Continuous shooting (p. 79) cannot be used in this mode.

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.





₫ Choose **‡**<u>*</u>.

- After pressing the ▶ button, press the ◀▶ buttons or turn the ❸ dial to choose ⁴₺, then press the ∰ button.
- ► Once set, 🗱 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. 153).

Setting the Shutter Speed

You can set the shutter to the speed at which you want to shoot. The camera will set the appropriate aperture value for the shutter speed you set.

Tv stands for "Time value".



- Set the mode dial to Tv.
- Make the setting.
 - Turn the () ring to set the shutter speed.
 - Shoot.

Available Shutter Speeds

15", 13", 10", 8", 6", 5", 4", 3"2, 2"5, 2", 1"6, 1"3, 1", 0"8, 0"6, 0"5, 0"4, 0"3, 1/4, 1/5, 1/6, 1/8, 1/10, 1/13, 1/15, 1/20, 1/25, 1/30, 1/40, 1/50, 1/60, 1/80, 1/100, 1/100, 1/125, 1/160, 1/200, 1/250, 1/320, 1/400, 1/500, 1/640, 1/800, 1/1000, 1/1250, 1/1600

- 2" indicates 2 seconds, 0"3 indicates 0.3 second and 1/160 indicates 1/160 second
- The fastest shutter speed when using the flash is 1/500 second. The camera automatically resets the shutter speed to 1/500 second if a faster speed is chosen.
- Depending on the zoom position, some shutter speeds may not be available.



What if aperture value is displayed in orange?

If the aperture value displays in orange when the shutter button is pressed halfway, the scene has exceeded the correct exposure limits. Adjust the shutter speed until the aperture value displays in white. Safety shift can also be used (p. 96).



- 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 lowering the shutter speed and shooting with a tripod (p. 153).

Setting the Aperture Value

You can set the aperture to a value at which you want to shoot. The camera will set the appropriate shutter speed for the aperture value you set. **Av** stands for "Aperture value".



Set the mode dial to Av.

- Make the setting.
 - Turn the () ring to set the aperture value.
 - Shoot.

Available Aperture Values

F2.0, F2.2, F2.5, F2.8, F3.2, F3.5, F4.0, F4.5, F4.9, F5.0, F5.6, F6.3, F7.1, F8.0

- The fastest shutter speed when using the flash is 1/500 second. As a result, the camera will not set a shutter speed faster than 1/500 second regardless of the aperture value you set.
- Depending on the zoom position, some aperture values may not be available.



What if shutter speed is displayed in orange?

If the shutter speed displays in orange when the shutter button is pressed halfway, the scene has exceeded the correct exposure limits. Adjust the aperture value until the shutter speed displays in white. Safety shift can also be used.

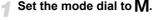


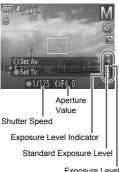
Safety Shift

With T_{V} and A_{V} modes, if [Safety Shift] is set to [On] in the \square tab, the shutter speed or aperture value is automatically adjusted for the correct exposure when it cannot otherwise be obtained. Safety Shift is disabled when the flash is enabled.

Setting the Shutter Speed and Aperture Value

You can manually set the shutter speed and aperture to shoot images. M stands for "Manual".





Exposure Level

- Make the setting.
- Turn the dial to set the shutter speed. or turn the () ring to set the aperture value.
- The set exposure level appears on the indicator. You can check the difference against the standard exposure level.
- When the difference is more than ±2 stops, the set exposure level appears in orange. When you press the shutter button halfway, "-2" or "+2" appears in orange.



- The standard exposure is calculated according to the metering method chosen (p. 91).
- If you use the zoom after making settings or change the composition, the exposure level may change.
- Depending on the shutter speed or aperture value set, the monitor brightness may change. If the flash is set to \$. the monitor brightness will not change.
- If you press the button while holding down the shutter button halfway, the shutter mode or aperture setting (whichever was not adjusted in Step 2) will be automatically adjusted to obtain the correct exposure. However, the correct exposure may not be obtained depending on the settings.

Making Settings using the Control Ring

You can change the function assigned to the control ring. By performing operations with the control ring, you can enjoy the feeling of using a fully manual camera.



Default Contro Turn ring to adjust the shooting mode setting (Aperture value)



Assign a function to the () ring.

- Press the ring function selector button.
- Press the ring function selector button, the ◆ buttons, or turn the ● dial to choose an option.
- Press the (sir) button to make the setting.







Adjust the settings.

Turn the () ring or the dial to adjust the settings of the assigned functions.

Functions Assignable to the Control Ring

The functions you can assign to the control ring are different depending on the shooting mode. The functions assigned to the control dial also change.

Shooting mode Assignable Function		М	Av	Tv	P
STD	0	Aperture Value	Aperture Value	Shutter Speed	ISO Speed
310		Shutter Speed	Exposure Compensation	Exposure Compensation	Exposure Compensation
	0	ISO Speed	ISO Speed	ISO Speed	ISO Speed
<u>[[50]</u>		Aperture Value/Shutter Speed	Aperture Value/ Exposure Compensation	Shutter Speed/ Exposure Compensation	Exposure Compensation
	0	Shutter Speed	Exposure Compensation	Exposure Compensation	Exposure Compensation
		Aperture Value	Aperture Value	Shutter Speed	ISO Speed
_	0	Adjust Focus	Adjust Focus	Adjust Focus	Adjust Focus
Œ		Aperture Value/Shutter Speed	Aperture Value/ Exposure Compensation	Shutter Speed/ Exposure Compensation	Exposure Compensation
WB	0	White Balance Correction	White Balance Correction	White Balance Correction	White Balance Correction
+/ -		Aperture Value/Shutter Speed	Aperture Value/ Exposure Compensation	Shutter Speed/ Exposure Compensation	Exposure Compensation
7004	0	Step Zoom	Step Zoom	Step Zoom	Step Zoom
ZOOM		Aperture Value/Shutter Speed	Aperture Value/ Exposure Compensation	Shutter Speed/ Exposure Compensation	Exposure Compensation



- While Face Self Timer (p. 67) is chosen, **m** is not available.
- While \mathcal{L}_{W} or \mathcal{L}_{Se} in My Colors (p. 80) is chosen, \mathcal{L}_{Se} is not available.
- When shooting in (AID), SCN (except (a)), ⇒ and movie modes, the (1) ring is used for step zoom (p. 64).

Correcting the Brightness and Shooting (i-Contrast)

The camera can detect areas in the scene, such as faces or backgrounds, that are too bright or dark and automatically adjust them to the optimum brightness when shooting. Also, when the overall image is lacking in contrast, the camera will automatically correct the image for a sharper impression when shooting.





Choose [i-Contrast].

- Press the MENU button, choose the tab, and then choose the [i-Contrast] menu item. Press the ◀▶ buttons to choose [Auto].
- ▶ Ci will appear on the screen.



Under some conditions, the image may appear coarse or may not be corrected properly.



- Not available when shooting in MW.
- You can correct recorded images (p. 138).

Red-Eye Correction

You can automatically correct red-eye that occurs in images taken with the flash.





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



Adjust the setting.

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



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



- Not available when shooting in \(\bigwidth{\text{IM}} \).
- You can correct recorded images (p. 139).
- You can also display the screen in Step 2 by pressing the MENU button while the screen in Step 2 on p. 61 is displayed.

Adjusting the Flash Exposure Compensation

Just like with exposure compensation (p. 70), you can adjust the exposure ±2 stops in 1/3-stop increments when using the flash.



Choose 🛂.

- After pressing the (button, press the buttons to choose buttons
- Make the setting.
 - Press the ◀▶ buttons or turn the ❸ dial to choose the flash exposure compensation, then press the ∰ button.
 - ▶ ₩ will appear on the screen.



You can also set the flash exposure compensation by pressing the MENU button, choosing [Flash Settings] from the tab and pressing the button. Then choose [Flash Exp. Comp] and press the buttons to make the setting. Or, you can press the button, then the MENU button to display the settings screen.

Safety FE

The camera automatically changes the shutter speed or aperture value when the flash fires to avoid overexposing and blowing out the highlights in the scene. In the tab, if [Safety FE] in [Flash Settings] is set to [Off], the shutter speed and aperture value will not automatically adjust.

Adjusting the Flash Output

In **M** mode, you can choose 3 levels of flash output.

¶ Set the camera to M mode.



Choose the flash output.

- After pressing the (button, press the buttons to choose buttons to choose buttons
- Make the setting.
 - Press the ◀▶ buttons or turn the ❸ dial to choose the flash output, then press the ∰ button.



- You can also set the flash output by pressing the MENU button, choosing [Flash Settings] from the tab, and then pressing the button. Choose [Flash Output] and press the to buttons to make the setting.
- In **Tv** and **Av** modes, you can set the flash output if you choose the tab, then [Flash Settings] and set the [Flash Mode] option to [Manual].

Checking for Shut Eyes

When the camera detects the possibility that people have their eyes shut, appears.



Choose [Blink Detection].

Press the MENU button, choose the tab, and then choose the [Blink Detection] menu item. Press the ◆▶ buttons to choose [On].

Shoot.

When a person with shut eyes is detected, a frame and

appear.



- In 🚫 , 🔾 🍇 or 🍇 modes, this function is only available for the last image shot.
- Not available in □ or □, □.

Registering Shooting Settings

You can register your commonly used shooting modes and function settings. Set the mode dial to **C** to use your registered settings. Even if you switch shooting modes or turn off the power, settings that usually cancel (self timer, etc.) will be saved.

Settings that Can be Registered

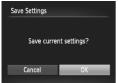
- Shooting modes (P, Tv, Av or M)
- Items set in P, Tv, Av or M (pp. 70 97)
- Items in the shooting menu
- Zoom position
- Manual focus position (p. 89)
- My Menu items (p. 154)



Enter the Shooting mode you want to register and make the settings.

Choose [Save Settings].

Press the MENU button, choose [Save Settings] from the tab and press the button.



Register the settings.

Press the ◀▶ buttons or turn the ♠ dial to choose [OK], then press the ♠ button.



- To change part of the pre-registered settings (except the shooting mode), set the mode dial to
 С, make the changes, and then repeat Steps 2 − 3.
- To return registered contents to the default settings, turn the mode dial to C and choose [Reset All] (p. 51).

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 choose to retain a single color and change the rest to black and white in a composition.





Recorded color

Choose ∕A.

■ Follow Step 2 on p. 56 to choose 🗛.

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.
- Choose a negative value to limit the range of colors. Choose 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.
- When using the Self Timer (p. 66) you can set the time delay to 10 sec. or 2 sec., and the number of shots will be fixed to 1.

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 p. 56 to choose √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.



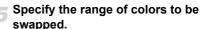
Specify the color to be swapped.

- 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.
- Choose a negative value to limit the range of colors. Choose 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.
- Under some conditions, the image may appear coarse.
- When using the Self Timer (p. 66) you can set the time delay to 10 sec. or 2 sec., and the number of shots will be fixed to 1.

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.



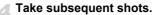
Set the mode dial to SCN.

Choose or c.

Follow Step 2 on p. 56 to choose or ...

Take the first shot.

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



- 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.
- Up to 26 shots can be recorded with the same procedures.

Finish shooting.

Press the (st) button.

Merge the images on a computer.

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



- This function is not available when a TV is used as the monitor (p. 81).
- To use AF lock, register AFL to the S button (p. 153).
- When using the Self Timer (p. 66) you can set the time delay to 10 sec. or 2 sec., and the number of shots will be fixed to 1.



±Ω

Change settings

17/1 ▲L 772

Using Various Functions for Shooting Movies

This chapter provides more advanced information than the "Shooting Movies" and "Viewing Movies" sections of Chapter 1.



This chapter assumes that the mode dial is set to __.

Changing the Movie Mode

You can choose between three Movie modes.



Set the mode dial to \mathbb{\bar{\mathbb{\pi}}}.

Choose a Movie mode.

 Turn the dial to choose a Shooting mode.

► Standard	Normal mode.		
况 Color Accent	These Shooting modes let you change all colors except the chosen color to black and white, or exchange the chosen color for another		
₹ Color Swap	color, when shooting. See "Changing the Color and Shooting" (p. 105) 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 choose between three image quality settings.



Choose the image quality.

- Choose an option.
 - Press the ◀▶ buttons or turn the ♣ dial to choose an option, and press the ♠
 - The setting will display on the screen.

Image Quality Table

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

Estimated Shooting Time

Image Quality	Shooting Time		
illage Quality	2 GB	8 GB	
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 will automatically stop when either the clip file size reaches 4 GB or the recording time reaches approximately 1 hour.

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.

Using the Wind Filter

Wind Filter suppresses noise when the wind is strong. However, unnatural sound may result when used to record in locations with no wind.



 Press the MENU button, choose [Wind Filter] from the tab and press the buttons to choose [On].

AE Lock/Exposure Shift

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



Focus.

Press the shutter button halfway to focus.

Lock the exposure.

- Press the button to lock the exposure. The exposure shift bar appears.
- Press the button again to release the lock.

Change the exposure.

 While watching the screen, turn the dial to adjust the brightness.



Other Shooting Functions

The following functions can be used in the same way as for still images. For \mathbb{Z} and \mathbb{Z} modes, the functions with an * attached can be used in the same way as for still images.

- Zooming in More Closely On Subjects
 The digital zoom (p. 62) is available.
- Using the Self-Timer (p. 66)*
 You can set the time delay to 10 sec. or 2 sec., and the number of shots will be fixed to 1.
- Shooting Close-ups (Macro) (p. 75)*
- Adjusting the White Balance (p. 77)
- Changing the Tone of an Image (My Colors) (p. 80)
- Shooting Using a TV Monitor (p. 81)*
- Shooting with the AF Lock (p. 86)*
- Shooting in Manual Focus Mode (p. 89)*
- Turning off the AF Assist Beam (p. 150)*
- Customizing Display Information (p. 152)*
 [3:2 Guide] is not available.
- Changing the IS-Mode Settings (p. 153)*
 You can switch between [Continuous] and [Off].
- Registering Functions to the S Button (p. 153)*

Playback Functions

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

- Erasing Images (p. 28)
- Quickly Searching Images (p. 118)
- Viewing Images in Filtered Playback (p. 119)
- Viewing Slideshows (p. 123)
- Changing Image Transitions (p. 124)
- Viewing Images on a TV (p. 125)
- Protecting Images (p. 127)
- Erasing All Images (p. 130)
- Organizing Images by Category (My Category) (p. 132)
- Rotating Images (p. 134)

← Fxit

Summary for "Viewing Movies" (p. 33)

ت	EXIL	
•	Playback	
 	Slow Motion Playback (you can use the \P buttons to adjust the speed. Sound will not play back.)	
K	Display the first frame	
4	Previous frame (Rewind if you hold down the (III) button.)	
⊪	Next frame (Fast forward if you hold down the (##) button.)	
>>	Display the last frame	
%	Edit (p. 115)	
Ъ	Appears when connected to a PictBridge compliant printer (p. 29). 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 Bar

◀ Choose %.

- Follow Steps 1 and 3 on p. 33, choose **%** and press the **⊕** button.
- ▶ The movie editing panel and the movie editing bar will appear.

Set the editing range.

- Press the ▲▼ buttons and choose ¼♥ or♥₡ .
- Press the ◀▶ buttons or turn the ♠ dial to move ▼. ※ will display at each one-second interval. If you choose ※, you can trim the beginning of the movie from ※. If you choose ¼, you can trim the end of the movie from ※.
- ▶ Even if you move

 to a point other than a

 point, only the portion from the
 nearest

 to the left will be trimmed
 when

 fi is chosen. Only the portion from
 the nearest

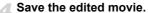
 to the right will be trimmed
 when

 ### is chosen.
- The section indicated with

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

Check the edited movie.

- Press the ▲▼ buttons to choose
 Press the ⊕ button. The edited movie will play.
- To edit the movie again, repeat Step 2.
- To cancel editing, press the ▲▼ buttons, and choose ⑤. After pressing the ⑪ button, press the ◀▶ buttons or turn the ⑫ dial to choose [OK], and press the ⑪ button again.



- Press the ▲▼ buttons to choose ♣, then press the button.
- Press the ◀▶ buttons or turn the ♣ dial to choose [New File], then press the ♠ button.
- The movie will be saved as a new file.

- When [Overwrite] is chosen in Step 4, 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 chosen.
- 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 enter Playback mode before operating the camera.



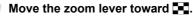
- It may not be possible to play back or edit images that have been edited on a computer, had their file name changed, or have been taken on a different camera.
- The edit function (pp. 135 139) cannot be used if the memory card does not have free space available.

Quickly Searching Images

Searching Images Using Index Display

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





- 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.



Change the displayed images.

 Turn the dial to switch to the next set of images set in Step 1.

Choose an image.

- Press the ▲▼◆▶ buttons to choose an image.
- An orange frame appears on the chosen image.
- Press the button to display the chosen 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 (Scroll Display).



Choose an image.

- If you press the ▲▼ buttons, you can search images by the shooting date.
- Pressing the button restores single image playback.



To turn off this function, press the MENU button, choose the ▶ tab and [Scroll Display], then choose [Off].

Viewing Images in Filtered Playback

When there are many images on the memory card, you can filter and display them by a specified filter. You can also protect (p. 127) or delete (p. 130) all images at once while filtered.

Jump Shot Date	Displays the images shot on a specified date.
Jump to My Category	Displays the images of a specified category (p. 132).
Jump to first	Jumps to still images only.
Jump to Movie	Jumps to a movie.
Jump 10 Images	Jumps over 10 images at a time.
Jump 100 Images	Jumps over 100 images at a time.

Search by 🌀, 🚳, 🛍 and 📻



Target Filters

Choose a target filter.

- In single image playback, press the ▲ button, then press the ▲ buttons to choose a jump method.
- In ☆ or ் press the ♠ buttons to choose a filter. Turning the ♠ dial will display only images that have the same shooting date (category) as the currently chosen image.
- Press the DISP button to switch between Information Display and No Information Display.
- Pressing the MENU button restores the single image display.



Viewing images using filtered playback.

- Pressing the button will start filtered playback, and the jump method and a yellow frame will appear.
- If you press the ◆ buttons or turn the dial, the chosen target images will display.
- Pressing the button displays [Filtered playback settings cleared]. Pressing the
 button cancels filtered playback.

Jump by 📆 and 🛍 Images



- In single image playback, press the button, then press the ▲▼ buttons to choose a jump method.
- Pressing the MENU button restores the single image display.

Using the Control Ring to Jump

Turn the control ring to jump images using the [6, 16, and 16 functions.



- In single image playback, turn the 0 ring, then press the ▲▼ buttons to choose a jump method.
- If you turn the () ring, the display will advance to the image that is the chosen number of images away.



and foo cannot be selected when in index display.



What if you can't choose a filter?

When you choose on In Step 1 on p. 119, if there are only images with the same date, you can only choose one filter. Also, you can only choose if there are no images sorted into categories in fa.



Filtered playback

In filtered playback (Step 2), you can view filtered images with "Quickly Searching Images" (p. 118), "Viewing Slideshows" (p. 123), and "Magnifying Images" (p. 124). You can process all filtered images at once while performing operations in "Protecting Images" (p. 127), "Erasing All Images" (p. 130), or "Printing from the Print List (DPOF)" (p. 140), by choosing [All Filtered Images]. However, if you change the category (p. 132), or edit an image and save it as a new image (p. 135), a message will appear, and filtered playback will cancel.

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. 44).

- 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.

Switch frames.

- Move the zoom lever toward Q once.
- The screen at the left will appear.
- Press the button to move to a different frame when multiple frames appear.

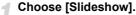
Change the magnification level or location.

- Use the zoom lever to change the display size, and the ▲▼◀▶ buttons to change the display position while checking the focus.
- Pressing the MENU button resets the display to Step 1.

Viewing Slideshows

You can automatically play back images recorded to a memory card.





Press the MENU button, choose [Slideshow] from the ► tab and press the
★ button.



Make the setting.

Press the ▲▼ buttons or turn the ● dial to choose an item, and press the ◆▶ buttons to adjust the setting.

Repeat	Repeats playback of images	
Play Time	Display time for each image	
Effect	Transition effects when switching between images	



Choose [Start].

- Press the ▲▼ buttons or turn the ♣ dial to choose [Start], the press the (♣) button.
- The slideshow will start a few seconds after [Loading image...] displays.
- 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 keep the ◀▶ buttons pressed, you can fastforward through images.
- The power saving function does not work during slideshows (p. 53).
- You cannot change [Play Time] if [Bubble] is chosen in [Effect].

Magnifying Images



Approximate Location of Displayed Area

Move the zoom lever toward \mathbb{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 dial, you can switch images in the zoomed state.

Changing Image Transitions

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



Choose [Transition].

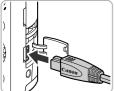
Press the MENU button and choose the
 tab, then choose [Transition] and press the
 buttons to choose a transition effect.

Viewing Images on a TV

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

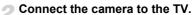
Items to Prepare

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





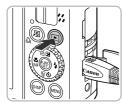
Turn off the camera and TV.



- Open the camera's terminal cover and fully insert the plug of the cable into the camera's 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.



Yellow

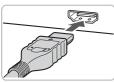
What if the images don't properly display on the TV?

Images will not display correctly if the camera's video output setting (NTSC/PAL) does not match the TV system. Press the MENU button, choose the ft 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 to a high-definition TV for enhanced viewing experience.





Turn off the camera and TV.

Connect the camera to the TV.

- Open the cover and fully insert the cable plug into the camera's HDMI terminal.
- Fully insert the cable plug into the TV's HDMI terminal.
- Follow Steps 3 and 4 on p. 125 to display the images.



Operation sounds will not play when connected to a high-definition TV.

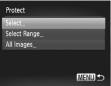
Protecting Images

You can protect important images so that they cannot be erased by the camera (pp. 28, 130).



◀ Choose [Protect].

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



Choose a selection method.

- Press the ▲▼ buttons or turn the dial to choose a selection method, and press the (♠) button.
- Pressing the MENU button will restore the menu screen.

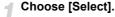


If you format the memory card (pp. 22, 52), protected images will also be erased.



Protected images cannot be erased with the camera's erase function. To erase an image, cancel protection first.

Choosing Images Individually



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



Choose images.

- Press the ◀▶ buttons or turn the ♠ dial to choose 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 choose multiple images, repeat the above operation.

Select Range









Choose [Select Range].

Follow Step 2 on p. 127 to choose [Select Range] and press the () button.

Choose the starting image.

- Press the (st) button.
- Press the buttons or turn the dial to choose the image and press the button.

Choose the ending image.

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



Protect images.

■ Press the ▼ button, choose [Protect] and press the (SE) button.



Choose images with the # dial

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

Choose All Images



Choose [All Images].

Follow Step 2 on p. 127 to choose [All Images] and press the (st) button.

Protect images.

■ Press the ▲▼ buttons or turn the ● dial to choose [Protect] and press the (button

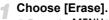


You can unlock groups of protected images if you choose [Unlock] in Step 4, while in [Select Range] or Step 2 while in [All Images].

Erasing All Images

You can choose images and erase them in groups. Since erased images cannot be recovered, exercise adequate caution before erasing. Protected images (p. 127) cannot be erased.





Press the **MENU** button, choose the tab and [Erase], and press the (sr) button.



Choose a selection method.

- Press the ▲▼ buttons or turn the dial to choose a selection method, and press the (⊕) button.
- Pressing the MENU button will restore the menu screen.

Choosing Images Individually



Choose [Select].

- Follow Step 2 above to choose [Select] and press the (button.
- Press the ◀▶ buttons or turn the ♣ dial to choose 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 choose multiple images, repeat the above operation.

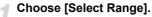


Press the MENU button.

Erase.

Press the ◀▶ buttons or turn the ♠ dial to choose [OK] and press the ♠ button.

Select Range



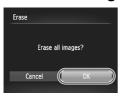
- Follow Step 2 on p. 130 to choose [Select Range] and press the () button.
- Follow Steps 2 and 3 on p. 128 to choose images.



Erase.

Press the ▼ button to choose [Erase], then press the (st) button.

Choose All Images



Choose [All Images].

 Follow Step 2 on p. 130 to choose [All Images] and press the button.

Erase.

Press the ♠ buttons or turn the ♠ dial to choose [OK] and press the (button.

Organizing Images by Category (My Category)

You can organize images in categories. You can display the images in a category in Filtered Playback (p. 119) and process all images at once by using the functions below.

 Viewing Slideshows (p. 123), Protecting Images (p. 127), Erasing All Images (p. 130), Choosing Images for Printing (DPOF) (p. 141)



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

images with detected faces, or images shot in Ŋ, M, ℜ modes.
 images detected as Y or I in (NITO) mode, or images shot in ∆,
 images detected as Y or I in (NITO) mode, or images shot in ∆,

: Images shot in ¾, ∰, ∯, ♠, ᠖, ⁴.





◀ Choose [My Category].

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

Make the setting.

- Press the ▲▼ buttons or turn the dial to choose a category and press the button.
- Press the MENU button to return to the menu screen.

Choosing Images Individually



Choose [Select].

- Follow Step 2 on p. 132 to choose [Select] and press the (button.
- Press the ◀▶ buttons or turn the ♣ dial to choose the image, and press the ♠ button.
- Press the ▲▼ buttons, choose a category and press the (button.
- ▶ Once set, ✓ will appear on the screen.
- Pressing the (button again deselects the category and √ disappears.
- To choose multiple images, repeat the above operation.

Select Range



Choose [Select Range].

- Follow Step 2 on p. 132 to choose [Select Range] and press the (button.
- Follow Steps 2 and 3 on p. 128 to choose images.
- Press the ▼ button, choose the item and press the ◀▶ buttons, or turn the ❸ dial to choose a type.

Choose the setting.

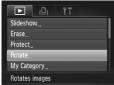
Press the ▼ button to choose [Select] and press the (button.



If you choose [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.





Choose [Rotate].

■ Press the MENU button, choose the tab and [Rotate], and press the button.

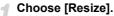
Rotate the image.

- Press the buttons or turn the dial to choose an image.
- The image will rotate 90° with each press of the (★) button.
- Pressing the MENU button will restore the menu screen.

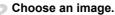
Resizing Images

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





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



Press the ◀▶ buttons or turn the ⑤ dial to choose the image and press the ⑤ button.



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



Save the new image.

- Press the ♠ buttons or turn the ♠ dial to choose [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.
- Press the ♠ buttons, or turn the ♠ dial to choose [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, XS and Settings.

Trimming

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



Choose [Trimming].

Press the MENU button, choose the tab and [Trimming], then press the button.

Choose an image.

Press the ◀▶ buttons or turn the ♣ dial to choose 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 frame size.
 - In an image with detected faces, gray frames appear around the faces located in the upper left image. The frames can be used for trimming. You can switch between frames by turning the unit details.
 - Press the (str) button.

Save as a new image and display.

Perform Steps 4 and 5 on p. 135.



Trimming Area Display

Recorded pixels





- Ⅲ, S, X\$ and Ⅲ images cannot be trimmed.
- The width and height ratio of an image that can be changed is fixed at 4:3 (for a vertical image 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. 80 for details on each menu item.





Choose [My Colors].

Press the MENU button, choose the Lettab and [My Colors], and press the button.

Choose an image.

Press the ◀▶ buttons or turn the ❸ dial to choose the image and press the ☺️ button.

Choose a menu option.

- Press the ◀▶ buttons or turn the ♠ dial to choose an option.
- You can magnify the image by following the operations in "Magnifying Images" (p. 124).
- If you press the button during magnified display, you can switch to the original image. Pressing the MENU button restores the menu screen.
- Press the (SE) button.

Save as a new image and display.

Perform Steps 4 and 5 on p. 135.

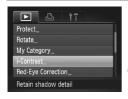


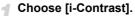
- If you repeatedly change the color of an image, the quality will gradually deteriorate and you may not achieve the expected color.
- The coloration of images changed with this function may vary from those recorded with the My Colors function (p. 80).
- My Colors settings cannot be performed on images.

Correcting the Brightness (i-Contrast)

The camera can detect areas in an image, such as faces or backgrounds, that are too dark and automatically adjust them to the optimum brightness. Also, when the overall image is lacking in contrast, the camera will automatically correct the image for a sharper impression.

You can choose from 4 levels of correction: [Auto], [Low], [Medium] or [High]. Corrected images will be saved as a new file.

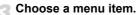




Press the **MENU** button, choose the **▶** tab and [i-Contrast], then press the (button.

Choose an image.

Press the buttons or turn the dial to choose the image and press the button.



Press the ◀▶ buttons or turn the ♠ dial to choose an option, then press the ♠ button.

Save as a new image and display.

Perform Steps 4 and 5 on p. 135.



Contrast

What if the image wasn't corrected by the [Auto] option as well as you would like?

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



- 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.
- Contrast correction cannot be performed on images.

Correcting the Red-Eye Effect

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



Choose [Red-Eye Correction].

- Press the MENU button, choose the tab and [Red-Eye Correction], then press the button.
- Choose an image.
 - Press the buttons or turn the dial to choose an image.
- Correct the image.
 - Press the (sir) button.
 - Red-eye detected by the camera will be corrected and a frame will appear around the corrected portion.
 - You can zoom the image using the procedures in "Magnifying Images" (p. 124).



Save as a new image and display.

- Press the ▲▼◀▶ buttons, or turn the dial to choose [New File], and press the button.
- The image will be saved as a new file.
- Perform Step 5 on p. 135.



- Some images may not be properly corrected.
 - When [Overwrite] in Step 4 is chosen, the uncorrected image is overwritten with the corrected data, erasing the original image.
 - Protected images cannot be overwritten.
 - Red-eye correction cannot be performed on IIII images.
 - When shooting in [Record] red-eye correction can be performed on the JPEG image, but the original image 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 \(\Delta \) 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



- Choose an image.
 - Press the ◀▶ buttons or turn the dial and choose the image.
- Press the ☐ button (RAW images and videos will be excluded).
- Print list.
 - Press the ▲▼ buttons and choose the number of prints, press the ◀▶ buttons or turn the ❸ dial to choose [Add] and press the ∰ button.
 - To cancel adding images, choose the added images and press the △ button, then press the ◆ buttons, or turn the ♣ dial to choose [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*.



Connect the camera to the printer (p. 29).

Print.

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

Choosing Images for Printing (DPOF)

You can choose up to 998 images on a memory card for printing and specify the number of print copies so that they can be printed together or processed at a photo developer service. 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 chosen for printing.



Choose [Print Settings].

Press the MENU button and choose the tab, then choose [Print Settings] and press the ∰ button.

Adjust the settings.

- Press the ▲▼ buttons or turn the dial to choose a menu item, then press the ◆▶ buttons to choose 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	-



- Some printers or photo developer services may not be able to reflect all
 of the print settings in the output.
- Imay appear when using a memory card with print settings set by a different camera. These settings will be overwritten with 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] chosen, 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 **ft** tab (p. 19).

Choosing the Number of Copies



Choose [Select Images & Qty.].

Choose an image.

- Press the buttons or turn the dial to choose an image, then press the button.
- You will be able to set the number of print copies.
- If you choose [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 choose other images and the number of prints for each.
- You cannot set the number of print copies for index prints. You can only choose which images to print.
- Pressing the MENU button accepts the settings and restores the menu screen.



Select Range



Choose [Select Range].

- Choose [Select Range] in Step 1 on
 p. 142 and press the (button.
- Choose images according to Steps 2 and 3 on p. 128.

Make print settings.

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

Set All Images to Print Once



Choose [Select All Images].

- Choose [Select All Images] in Step 1 on p. 142 and press the button.
- Make print settings.
 - Press the ◀▶ buttons or turn the ♠ dial to choose [OK] and press the (♠) button.

Clearing All Selections

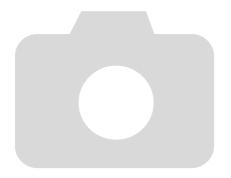


Choose [Clear All Selections].

Choose [Clear All Selections] in Step 1 on p. 142, and press the (str) button.

All selections will be cleared.

Press the ◀▶ buttons or turn the ♠ dial to choose [OK], then press the (♣) button.



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 **f**t tab (p. 48).

Turning off Hints & Tips

When you choose an item in the FUNC. menu (p. 47) or Menu (p. 48), hints and tips display. You can turn off this function.



Choose [Hints & Tips], then press the ◀▶ buttons to choose [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.



 Choose [File Numbering], then press the buttons to choose an option.

Continuous	consecutively until an image with the number 9999 is taken/saved.
Auto Reset	If you replace the memory card with a new one, file numbering begins with 0001 again.

Even if you shoot using a new memory



- 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 (p. 52).
- Refer to the Software Guide for information regarding folder structure or image types.

Creating Folders by Shooting Date

Images are saved into folders created each month, however, you can also create folders by shooting date.



- Choose [Create Folder] and press the buttons to choose [Daily].
- Images will be saved into folders created on each shooting date.

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.].



Choose [Lens Retract], then press the ♠buttons to choose [0 sec.].

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.



- Choose [Power Saving], then press the button
- Press the ▲▼ buttons or turn the dial to choose [Auto Power Down], then press the ↓ buttons to choose [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 [Offl.



- Choose [Power Saving], then press the whiten
- Press the ▲▼ buttons or turn the dial to choose [Display Off], then press the ↓▶ buttons to choose a time.
- In order to save battery power, it is recommended to choose 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.

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





Set the world time zone.

- Press the ▲▼ buttons or turn the ⑤ dial to choose ✗, then press the ⑥ button.
- Press the ◀▶ buttons or turn the ♠ dial to choose the destination time zone, then press the ∰ button.
- You can also set the daylight saving time as in Step 1.

Choose the world time zone.

- Press the ▲▼ buttons or turn the dial to choose [Home/World].
- Press the ♠ buttons to choose ✗, 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 🛪 setting (p. 19), your 🧍 time and date will automatically change.

Changing Distance Units

You can change the distance units that display in the MF indicator (p. 89) from m/cm to ft/in.



 Choose [Distance Units], then press the buttons to choose [ft/in].

Changing Shooting Functions

If you set the mode dial to ${\bf P}$, you can change the settings in the ${\bf C}$ tab (p. 48).



Before attempting to shoot using a function explained in this chapter in modes other than \mathbf{P} mode, check if the function is available in those modes (pp. 166 – 169).

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.



 Choose [AF-assist Beam], then press the buttons to choose [Off].

Changing the Flash Timing

You can change the timing for the flash and shutter.



- Choose [Flash Settings] and press the button.
- Press the ▲▼ buttons or turn the dial to choose [Shutter Sync.] and press the ↓ buttons to choose a setting.

1st-curtain	The flash fires right after the shutter opens.
2nd-curtain	The flash fires right before the shutter closes.

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.



- Choose [Flash Settings], then press the button.
- Press the ▲▼ buttons or turn the dial to choose [Red-Eye Lamp], then press the ↓ buttons to choose [Off].

Changing the Image Display Time

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



Choose [Review], then press the **♦** buttons to choose an option.

2 – 10 sec.	Displays images for the set time.
Hold	The image displays until you press the shutter button halfway.
Off	No image displays

Changing the Way the Image Displays Right After Shooting

You can change the way the image displays after shooting.



Choose [Review Info], then press the ♠ buttons to choose an option.

Off	Displays the image only.
Detailed	Displays detailed information (p. 45).
Focus Check	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. 122).

Customizing Display Information

You can change which information is displayed by switching between custom displays with each press of the DISP, button.



- Choose [Custom Display], then press the hutton
- Press the ▲▼◀▶ buttons or turn the ♣ dial to select an item and press the ⊕ button to put a √ mark on items you would like to display.
- ▶ Items with a ✓ will display.
- To turn off a custom display, choose

 → or
 → and press the
 → button. A
 → mark will appear.

However, the custom display currently being used in the shooting screen cannot be turned off.

Shooting Info	Displays shooting information (p. 44).
Grid Lines	A grid overlays the display.
3:2 Guide	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.
Histogram	Histogram displays in shooting modes P , Tv , Av , M .



If you press the shutter button halfway and return to the shooting screen from the custom display settings screen, the settings will not be saved.



Gray items can also be set, however, they may not display depending on the Shooting mode.

Changing the IS-Mode Settings



Choose [IS Mode], then press the ♠ buttons to choose 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 attached 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



- Choose [Set Shortcut button], then press the
 button.
- Press the ▲▼◀▶ buttons or turn the dial to choose the functions to register, then press the ∰ button.
- Pressing the S button will call up the registered function.

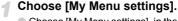


- Choose 🔊 if you want to cancel registration.
- When this \bigcirc symbol is shown on the bottom right of an icon, the function cannot be used in the current Shooting mode or function setting.
- In , each press of the subtraction by button records white balance data (p. 77), and the white balance settings change to .
- In AFL, each press of the S button will adjust the focus and AFL will appear on the screen.
- If you press the \(\subseteq \subseteq \) button in \(\frac{1}{16} \), both the LCD monitor displays will turn off. Perform one of the following operations to solve the problem.
 - Press any button other than the ON/OFF button
 - Change the camera's vertical or horizontal orientation

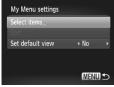
Registering Commonly Used Shooting Menus

You can register shooting menu items in the ★ tab to fit your preferences. You can quickly access commonly used menu items from a single screen by registering them in My Menu.





Choose [My Menu settings], in the ★ tab, then press the (button.



Choose the menu items to register.

- Press the ▲▼ buttons or turn the dial to choose [Select items], then press the button.
- Press the ▲▼ buttons or turn the dial to choose a menu to register (up to 5) and press the ⊕ button.
- ▶ ✓ will appear.
- To cancel registration, press the who button, and the √ will disappear.
- Press the MENU button.



Change the order in which menu items are displayed.

- Press the ▲▼ buttons or turn the dial to choose [Sort], then press the button.
- Press the ▲▼ buttons or turn the dial to choose the menu item you would like to move, and press the ⊕ button.
- Press the ▲▼ buttons or turn the dial to change the order, then press the button.
- Press the MENU button.



- Gray items in Step 2 can also be set, however, they may not be available depending on the Shooting mode.
- Choose [Set default view] and press the buttons to choose [Yes]. My
 Menu can now be displayed by pressing the MENU button when in a
 shooting mode.

Changing Playback Functions

You can adjust the settings in the **\bigsiz** tab by pressing the **\bigsiz** button (p. 48).

Choosing the Image that First Displays in Playback



Choose [Resume], then press the ♠ buttons to choose an option.

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

Changing the Start-up Image or Sound

In the **f†** tab, you can set one of your recorded images as the start-up image when the camera power is turned on, or change the sounds played for each camera operation.

Change Sounds



- Choose [Sound Options], then press the button.
- Press the ▲▼ buttons or turn the dial to choose an option.
- Press the buttons to choose a setting.
 - 1, 2 Preset sounds.
 - You can register your sounds using the supplied software (p. 157).

Changing the Start-up Screen



- Choose [Start-up Image], then press the button.
- Press the \(\rightarrow \) buttons to choose a setting.
 - No start-up image.
 - 1, 2 Preset images.
 - You can register the images you take.
 - You can also register your images using the supplied software (p. 157).

Registering the Start-up Screen

When you press the **D** button and set the camera to Playback mode, you can register sounds and images.



- Choose [Start-up Image], then press the button.
- Press the ♠ buttons to choose [3], then press the (button.



- Press the ◀▶ buttons or turn the ♣ dial to choose an image, then press the (♣) button.
- Press the ◀▶ buttons or turn the ∰ dial to choose [OK], then press the ∰ button to complete registration.

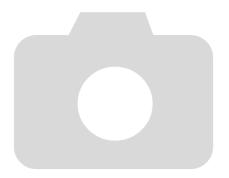
Ö

Register images or sounds saved on a computer

You can register images or sounds to the camera using the included software. Refer to the *Software Guide* for details.



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



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.

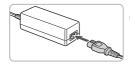


Using Household Power

If you use AC Adapter Kit ACK-DC40 (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 camera.

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

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 and power cord with the camera turned on. This could erase images you have taken or damage the camera.



The AC adapter kit can also be used when abroad

The AC adapter kit 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.

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 ON/OFF 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 placing it, for example, 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. 16).

TV output

Image is distorted or not showing on TV (p. 125).

Shooting

Cannot shoot.

When in Playback mode (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.

‡ appears on the screen and the shot cannot be taken even though the shutter button was pressed fully (p. 26).

- @ appears when the shutter button was pressed halfway (p. 26).
- Set the [IS mode] to [Continuous] (p. 153).
- Set the flash to \$ (p. 71).
- Increase the ISO speed (p. 76).
- Attach the camera to a tripod.

Image is blurred.

- Press the shutter button halfway to focus on the subject, then press fully to shoot (p. 23).
- Shoot the subject within the focusing distance (p. 173).
- Set the [AF-assist Beam] to [On] (p. 150).
- Confirm that functions which you do not intend to use (macro, etc.) are not set.
- Shoot using the focus lock or AF lock (pp. 82, 86).

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

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

Subject is too dark.

- Set the flash to \$ (p. 71).
- Adjust the brightness with exposure compensation (p. 70).
- Adjust the brightness with the i-Contrast function (pp. 100, 138).
- Use the AE lock, or spot metering to shoot (pp. 91, 92).

Subject is too bright (overexposed).

- Set the flash to (\$) (p. 61).
- Adjust the brightness with exposure compensation (p. 70).
- Use the AE lock, or spot metering to shoot (pp. 91, 92).
- Reduce the light illuminating the subject.

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

- Image is dark even though the Increase the ISO speed (p. 76).
- Shoot within an appropriate distance for flash photography (p. 71).
- Adjust the flash exposure compensation or the flash output (pp. 102, 103).

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

- Shoot within an appropriate distance for flash photography (p. 71).
- Set the flash to (p. 61).
- Adjust the flash exposure compensation or the flash output (pp. 102, 103).

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. 76).
- Depending on the Shooting mode, when shooting in a high ISO speed the image may appear rough or grainy (p. 60).

Eyes appear red (p. 101).

Set the [Red-Eye Lamp] to [On] (p. 151). 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" (p. 166).

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 recorded video will be the length that it was actually shot (p. 32).

appeared on the LCD monitor, and shooting ended automatically.

The 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).
- Change the image quality setting (p. 111).
- Use a memory card capable of recording at high speeds (p. 111).

Zoom does not operate.

You can use the digital zoom while recording, but not the optical zoom (p. 62).

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 Software Guide for information regarding folder structure or file names.

Playback stops, or audio cuts out.

- Use a memory card that has been formatted on this camera (p. 52).
- If you copy a movie to a memory card that reads slowly, playback may interrupt momentarily.
- Depending on its capabilities, the computer may drop frames, or the audio may cut out, when playing movies.

Computer

Cannot transfer images to a computer.

The problem may be solved when transferring images from the camera via the cable by performing the following operations to slow down transfer speed.

Remove the cable, then press and hold the MENU button and press the ▲ and
 (∰) buttons. In the screen that appears, choose [B] and press the (∰) button.

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, 69, 83) or edit images (pp. 135 – 139). Erase the images (pp. 28, 130) 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. 127)

Unidentified Image/Incompatible JPEG/Image too large./Cannot play back AVI

- 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. 124), rotated (p. 134), edited (pp. 135 139), registered to the start-up screen (p. 157), categorized (p. 132), or added to a print list (p. 141).
- 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. 124), edited (pp. 135 139), added to a print list (p. 140), or registered to the start-up screen (p. 156).

Cannot select!

- When choosing the selection range (pp. 128, 131, 143), you tried to choose a starting image that was after the last image or you tried to choose an ending image that was before the starting image.
- You tried to choose more than 501 images in the selection range (pp. 128, 131, 143).

Too many marks.

You chose more than 998 images in print settings. Choose less than 998 images (p. 141).

Cannot complete!

 Print settings could not be saved correctly. Reduce the number of selected images and try again (p. 141).

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. 147). In the ♀ menu, change [File Numbering] to [Auto Reset] (p. 146) or format the memory card (p. 52).

Communication error

 Images could not be transferred to the computer or printed due to the large amount of images (approx. 1,000) 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 ON/OFF button to turn the camera off and back on (p. 42). If this error message continues to appear, 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 ON/OFF button to turn the camera off and back on (p. 42).
- If an error code appears 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.

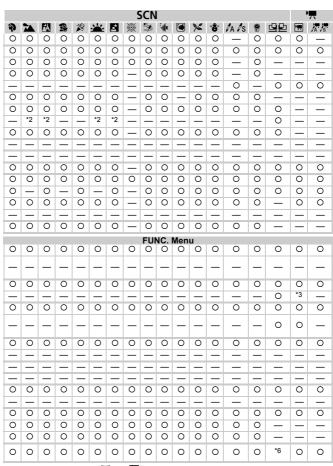
Wrong flash position Restart the camera

 If this message continues to appear after you have restarted the camera several times, there may be a problem with the camera. Please contact your Canon Customer Support Help desk.

Functions Available in Each Shooting Mode

Function	Shooting modes	С	М	Αv	Tv	P	AUTO	ş ∆ s
Exposure Compensation (p. 70)/Exposure Shift (p. 112)			_	0	0	0	_	-
	COFF	*1	0	0	0	0	0	0
Self-Timer (pp. 66, 67)	0	*1	0	0	0	0	0	0
Sell-Tillier (pp. 66, 67)	©	*1	0	0	0	0	0	0
	G0 C2	_	_	_	_	_	_	_
	\$ ^	*1	_	_	_	0	0	0
Flash (pp. 61, 71, 94)	\$	*1	0	0	0	0	_	_
(pp. 01, 71, 01)	\$ <u>*</u>	*1	_	0	_	0	*2	_
	③	*1	0	0	0	0	0	0
Program Shift (p. 92)		*1	_	0	0	0	_	_
AE Lock (pp. 92, 112)/F	FE Lock (p. 92)	*1	_	0	0	0	_	_
AF Lock (p. 86)		*1	0	0	0	0	_	0
	A A	*1	0	0	0	0	_	*7
Focusing Zone	*	*1	0	0	0	0	_	_
(pp. 75, 89)	MF	*1	0	0	0	0	_	0
	All Range	_	_	_	_	_	0	_
Face Selection (p. 88)		*1	0	0	0	0	0	0
	FUNC. Menu							
	AUTO	*1	_	0	0	0	0	0
ISO Speed (p. 76)	ISO ISO	*1	0	0	0	0	_	-
White Balance (p. 77)	AWB	*1	0	0	0	0	0	0
Write Balance (p. 77)	☀▲☀祟端を喰品	*1	0	0	0	0	_	_
	-GFF	*1	0	0	0	0	0	0
My Colors (p. 80)	Av An Ase Asw Ap AL AD AB AG AR AC	*1	0	0	0	0	-	-
Procketing (nn. 00, 03)	E	*1	0	0	0	0	0	0
Bracketing (pp. 90, 93)	4 5	*1	0	0	0	0	_	_
Flash Exposure Compe	nsation (p. 102)	*1	_	0	0	0	_	_
Flash Output Settings (p. 103)		*1	0	0	0	_	_	_
Light Metering (p. 91)	(8)	*1	0	0	0	0	0	0
Light Wetering (p. 91)	[][]	*1	0	0	0	0	_	_
		*1	0	0	0	0	0	0
Drive Mode (p. 79)	9	*1	0	0	0	0	_	0
	15 *4	*1	0	0	0	0	_	0
Recording Pixels (pp. 72, 111)/ Compression Ratio (Image Quality) (p. 72)			0	0	0	0	0	*5

^{*1} The available settings depend on the registered shooting modes. *2 Not selectable, but turned on whenever flash is used. *3 \$ not available. *4 MF, \$\vec{m}\$ and AF Lock are set to \$\vec{w}\$. *5 Recording pixels are fixed to \$\vec{M}\$.



^{*6} Recording pixel setting III and IIII not selectable. *7 Focusing Zone is the same as in IIII O Selectable, or set automatically. — Not selectable.

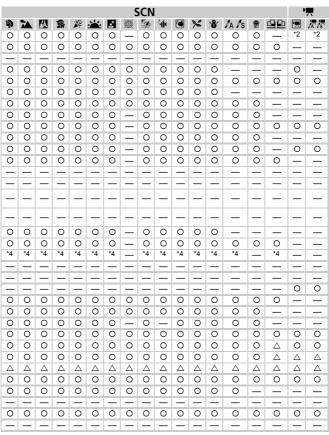
Menus

△ Shooting Menu

Shooting modes Function					Αv	Tv	P	AUTO	\$ _
	Face AiAF		*1	0	0	0	0	0	0
AF Frame (p. 84)	Center		*1	0	0	0	0	_	_
AF Frame Size (p. 84)	Normal/Small		*1	0	0	0	0		
7	Standard		*1	0	0	0	0	0	
Digital Zoom (p. 62)	Off		*1	0	0	0	0	0	0
3	Digital Tele-Conv	verter (1.4x/2.3x)	*1	0	0	0	0	0	
AF-Point Zoom (p. 85)	On/Off	,	*1	0	0	0	0	0	0
Servo AF (p. 87)	On/Off		*1	0	0	0	0	*3	0
AF-assist Beam (p. 150)	On/Off		*1	0	0	0	0	0	0
MF-Point Zoom	On/Off		*1	0	0	0	0		0
Safety MF (p. 89)	On/Off		*1	0	0	0	0		0
, , ,	E	Auto	*1	_	0	0	0	0	0
	Flash Mode	Manual	*1	0	0	0	_		
	Flash Exp. Comp	–2 to +2	*1	_	0	0	0	_	_
Flash Settings	Flash Output	Minimum/Medium/ Maximum	*1	0	0	0	_	_	_
(pp. 101, 102, 103, 150, 151)	Shutter Sync.	1st-curtain/ 2nd-curtain	*1	0	0	0	0	_	
	Red-Eye Corr.	On/Off	*1	0	0	0	0	0	0
	Red-Eye Lamp	On/Off	*1	0	0	0	0	0	0
	Safety FE	On/Off	*1	_	0	0	0	*4	*4
i-Contrast (p. 100)	Auto/Off		*1	0	0	0	0	*5	*5
Safety Shift (p. 96)	On/Off		*1	_	0	0	_	_	
Wind Filter (p. 112)	On/Off		*1	_	_	_	_	_	_
Review (p. 151)	Off/2 - 10 sec./h	Hold	*1	0	0	0	0	0	0
Review Info (p. 151)	Off/Detailed/Foo	us Check	*1	0	0	0	0	0	0
Blink Detection (p. 103)	On/Off		*1	0	0	0	0	0	0
	Shooting Info		*1	0	0	0	0	0	0
Custom Display*2	Grid Lines		*1	0	0	0	0	0	0
(p. 152)	3:2 Guide		*1	0	0	0	0	0	0
	Histogram		*1	0	0	0	0	Δ	Δ
IS Mode (p. 153)	Continuous/Off/Shoot Only/Panning		*1	0	0	0	0	*4	0
Date Stamp (p. 65)	Off/Date/Date & Time		*1	0	0	0	0	0	-
Record # + 1 (p. 74)	On/Off		*1	0	0	0	0	—	_
Set Shortcut button (p. 1	53)		*1	0	0	0	0	0	0
Save Settings (p. 104)			0	0	0	0	0	_	_

^{*1} The available settings depend on the registered shooting modes. *2 AiAF

^{*3 [}On] when subject movement is detected. *4 Fixed to [On]. *5 Fixed to [Auto].



O Selectable, or set automatically. \triangle : Selectable only, no settings available. — Not selectable

Menus

f† 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 for each camera operation.	p. 156
Hints & Tips	On*/Off	p. 146
LCD Brightness	Set within a range of ±2.	p. 50
Start-up Image	Add an image as start-up image.	p. 156
Format	Formats memory card, erasing all data	pp. 22, 52
File Numbering	Continuous*/Auto Reset	p. 146
Create Folder	Monthly*/Daily	p. 147
Lens Retract	1 min.*/0 sec.	p. 147
Power Saving	Auto Power Down: On*/Off Display Off: 10, 20 or 30 sec./1*, 2 or 3 min.	p. 53
Time Zone	Home/World	p. 148
Date/Time	Date and time settings	p. 20
Distance Units	m/cm* ft/in	p. 149
Video System	NTSC/PAL	p. 125
Language	Choose display 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. 123
Erase	Erases images.	p. 130
Protect	Protects images.	p. 127
Rotate	Rotates images.	p. 134
My Category	Categorizes images.	p. 132
i-Contrast	Corrects dark portions and contrast in still images.	p. 138
Red-Eye Correction	Corrects red eyes in still images.	p. 139
Trimming	Trims portions of still images.	p. 136
Resize	Resizes and saves still images.	p. 135
My Colors	Adjusts colors in still images.	p. 137
Scroll Display	On*/Off	p. 119
Resume	Last seen*/Last shot	p. 155
Transition	Fade*/Slide 1/Slide 2/Off	p. 124
+ D - f 11 111	· · · · · · · · · · · · · · · · · · ·	

^{*} Default setting

🕒 Print Menu

Item	Options/Summary	Ref. Page
Print	Displays printing screen.	p. 29
Select Images & Qty.	Chooses individual images for printing.	p. 142
Select Range	Chooses starting and ending images for printing.	p. 143
Select All Images	Chooses all images for printing.	p. 143
Clear All Selections	Cancels all settings for printing.	p. 143
Print Settings	Sets the printing style.	p. 141

Handling Precautions

- 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 onto, 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 in your Warranty System Booklet.
- 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.

Specifications

MultiMediaCard, MMCplus memory card, HC MMCplus memory card

Camera Effective Pixels Approx. 10 million Approx. 10.4 million) 35mm film equivalent: 28 (W) - 105 (T) mm f/2.0 (W) - f/4.9 (T). Approx. 4.0x (Up to approx. 15x in combination with the optical zoom) Approx. 461,000 dots. Picture coverage 100% AF Frame Mode Face AiAF/Center Focusing Range (from end of lens) Auto, Low Light, Manual Focus: 5 cm (2.0 in.) – infinity (W)/30 cm (12 in.) - infinity (T) Normal: 50 cm (1.6 ft.) - infinity Macro: 5 - 50 cm (2.0 in. - 1.6 ft.) (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 System. Evaluative, Center-weighted average or Spot Exposure Compensation ±2 stops in 1/3-stop increments ISO speed (Standard Output Sensitivity, Recommended Exposure Index) 800/1000/1250/1600/2000/2500/3200 White Balance Auto, Day Light, Cloudy, Tungsten, Fluorescent, Fluorescent H, Flash, Underwater, Custom Built-in Flash.......Auto, On, Slow Synchro, Off * Flash exposure compensation/Flash output/Shutter Sync./Red-eye reduction/Red-eye correction/FE lock/Safety FE settings available Built-in Flash Range 50 cm – 6.5 m (1.6 – 21 ft.) (W)/ 50 cm - 2.5 m (1.6 - 8.2 ft.) (T) Shooting Modes Shooting Mode: C. M. Av. Tv. P. Auto. Low Light. SCN. Movie SCN Mode: Portrait, Landscape, Night Snapshot, Kids&Pets, Indoor, Sunset, Night Scene, Fireworks, Beach, Underwater, Aquarium, Foliage, Snow, Color Accent, Color Swap, Nostalgic, Stitch Assist . Continuous: Approx. 0.9 images/sec. (Auto). Approx. 2.1 images/sec. (Low Light) Continuous Shooting AF: Approx. 0.6 images/sec. Continuous Shooting LV: Approx. 0.6 images/sec.

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Specifications

File Format Design rule for Camera File system and DPOF

compliant

Data Type Still images: Exif 2.2 (JPEG)/ RAW (CR2)*

Movies: MOV (Image data: H.264, Audio data: Linear

PCM (Mono))
*Use Digital Photo Professional for processing.

Compression Fine, Normal

Number of Recording Pixels

(Still images) Large: 3648 x 2736 pixels

Medium 1: 2816 x 2112 pixels Medium 2: 2272 x 1704 pixels Medium 3: 1600 x 1200 pixels Small: 640 x 480 pixels

Medium 3: 1600 x 1200 pixels Small: 640 x 480 pixels Widescreen: 3648 x 2048 pixels RAW: 3648 x 2736 pixels

Number of Possible Shots..... Approx. 220 images

Magnified, Filtered Playback, Slideshow, Scroll

Display

Editing Function. Erase, Protect, My Category, Resize, My Colors, i-Contrast, Trimming, Rotate, Red-Eve Correction

Direct Print Type PictBridge capable

Interface Hi-Speed USB (Dedicated connector with unified type

of digital, audio and video*)
HDMI (HDMI mini connector)
* mini-B compatible

Video/Audio output (NTSC and PAL capable, mono

audio)

(rechargeable lithium-ion battery)

Operating Humidity 10 – 90%

Dimensions (excluding protrusions) . . . 100.0 x 58.4 x 30.9 mm (3.94 x 2.30 x 1.22 in.)

Weight (camera body only) Approx. 175 g (6.17 oz.)

Battery Pack NB-6L

Type Rechargeable lithium-ion battery

Battery Charger CB-2LY/CB-2LYE

Approx. 61 g (2.15 oz.) (CB-2LYE) (excluding power

cord)

All data is based on tests by Canon.

Camera specifications or appearance are subject to change without notice.

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