



Canon

PowerShot SX130 IS

Camera User Guide

- Make sure you read this guide, including the Safety Precautions 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.



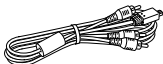
Camera



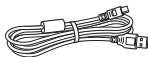
AA Alkaline Batteries (x2)



Wrist Strap
WS-800



Stereo AV Cable
AVC-DC400ST



Interface Cable
IFC-400PCU



Getting Started



DIGITAL CAMERA
Solution Disk



Warranty
Card



“Canon Customer
Support” Leaflet

Using the PDF Manuals

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

- **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.

Read This First

Test Shots and Disclaimer

Take some initial test shots and play them back to make sure the images were recorded correctly. Please note that Canon Inc., its subsidiaries and affiliates, and its distributors are not liable for any consequential damages arising from any malfunction of a camera or accessory, including memory cards, that results in the failure of an image to be recorded or to be recorded in a way that is machine readable.

Warning Against Copyright Infringement

The images recorded with this camera are intended for personal use. Do not record images that infringe upon copyright laws without the prior permission of the copyright holder. Please be advised that in certain cases the copying of images from performances, exhibitions, or commercial properties by means of a camera or other device may contravene copyright or other legal rights even if the image was shot for personal use.

Warranty Limitations

This camera's warranty is only effective in the country of sale. If there is a problem with the camera while abroad, please return it to the country of sale before proceeding with a warranty claim to a Canon Customer Support Help Desk. For Canon Customer Support contacts, please see the customer support list supplied with your camera.

LCD Monitor (Screen)

- 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.

What Do You Want to Do?

Shoot



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Take good people shots



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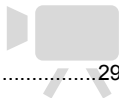


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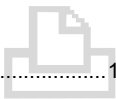
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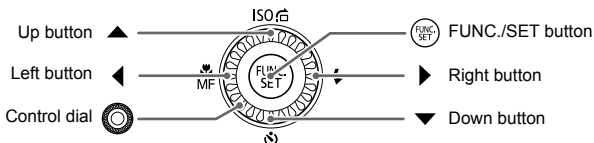
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Conventions Used in This Guide

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



- : Things you should be careful about
- : Troubleshooting tips
- : Hints for getting more out of your camera
- : Supplemental information
- (p. xx): Reference pages (“xx” stands for a page number)
- This guide assumes all functions are at their default settings.
- The various types of memory cards that can be used in this camera are collectively referred to as memory cards in this guide.

Safety Precautions

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



Warning

Denotes the possibility of serious injury or death.

- **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.

Time/date battery: Dangerous if swallowed. If this occurs, contact a doctor immediately.

- **Use only recommended power sources.**
- **Do not attempt to disassemble, alter or apply heat to the product.**
- **Avoid dropping or subjecting the product to severe impacts.**
- **To avoid the risk of injury, do not touch the interior of the product if it has been dropped or otherwise damaged.**
- **Stop using the product immediately if it emits smoke, a strange smell, or otherwise behaves abnormally.**
- **Do not use organic solvents such as alcohol, benzene, or thinner to clean the equipment.**
- **Do not let the product come into contact with water (e.g. sea water) or other liquids.**
- **Do not allow liquids or foreign objects to enter the camera.**

This could result in electrical shock or fire.

If liquids or foreign objects come into contact with the camera interior, immediately turn the camera power off and remove the batteries.

- **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.

- **Use only the recommended batteries.**
- **Do not place the batteries near or in direct flame.**

The batteries may explode or leak, resulting in electrical shock or fire. This could cause injury and damage the surroundings. In the event that batteries leak and the battery acid contacts eyes, mouth, skin or clothing, immediately flush with water.

**Caution**

Denotes the possibility of injury.

- **Be careful not to bang the camera or subject it to strong impacts or shocks when hanging it by the strap.**
- **Be careful not to bump or push strongly on the lens.**

This could lead to injury or damage the camera.

- **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.

- **Avoid using, placing or storing the product 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 batteries, resulting in electrical shock, fire, burns or other injuries.

- **The slideshow transition effects may cause discomfort when viewed for prolonged periods.**

Caution

Denotes the possibility of damage to the equipment.

- **Do not aim the camera at bright light sources (the sun, etc.).**

Doing so may 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.**

This may cause the product 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.

- **Remove and store the batteries when you are not using the camera.**

If the batteries are left inside the camera, damage caused by leakage may occur.

- **Before you discard the batteries, cover the terminals with tape or other insulators.**

Contacting other metal materials may lead to fire or explosions.

- **Do not charge batteries of different types at the same time, or use older batteries together with newer batteries.**

- **Do not insert the batteries with the + and - terminals reversed.**

This may cause the product to malfunction.

Safety Precautions

- **Do not sit down with the camera in your pocket.**

Doing so may cause malfunctions or damage the screen.

- **When putting the camera in your bag, ensure that hard objects do not come into contact with the screen.**

- **Do not attach accessories to the strap.**

Doing so may cause malfunctions or damage the screen.

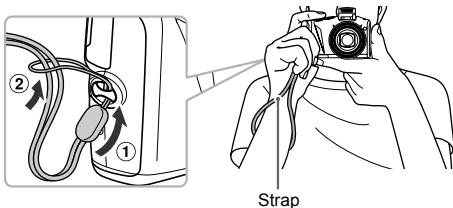


Getting Started


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

Attaching the Strap/Holding the Camera

- Be sure to attach the supplied strap to the camera and wrap it around your wrist when shooting to avoid dropping the camera.
- 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 while it is raised.



Compatible Memory Cards (Sold Separately)

- SD memory cards (2 GB and less)*
- SDHC memory cards
(more than 2 GB, up to and including 32 GB)*
- SDXC memory cards 
(more than 32 GB)*
- MultiMediaCards
- MMCplus memory cards
- HC MMCplus memory cards

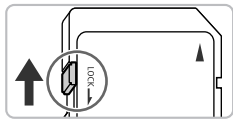
* This memory card complies with the SD standards. Some cards may not operate properly depending on the brand of card used.



Depending on your computer's OS version, SDXC memory cards may not be recognized when using a commercially available card reader. Check to make sure that your OS supports this function beforehand.

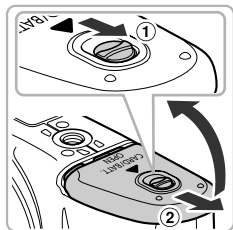
Inserting the Batteries and Memory Card

Insert the included batteries and a memory card (sold separately).



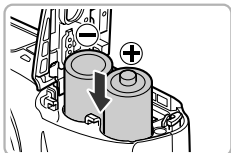
1 Check the card's write-protect tab.

- 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.



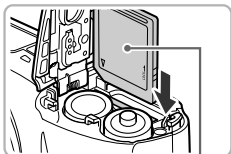
2 Open the cover.

- Slide and hold the cover lock (1), then slide and open the cover (2) as shown.



3 Insert the batteries.

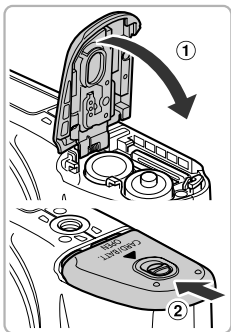
- Insert the batteries with (+) and (-) ends oriented correctly.



4 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.

Label



5 Close the cover.

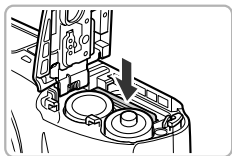
- Close the cover (1), and press downward as you slide it until it clicks into place (2).



What if [Memory card locked] appears on the screen?

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

Removing 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 That Can Be Taken

Power Source	Alkaline Batteries (Supplied)	NiMH Batteries (Sold Separately)
Number of Shots*	130	370
Playback Time	7 hr.	9 hr.

* 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.
- Depending on the brand of alkaline batteries used, the number of shots that can be taken may vary widely.
- The values for NiMH batteries are based on fully charged batteries.

Compatible Batteries

AA alkaline batteries and Canon AA NiMH batteries (sold separately) (pp. 36, 37).

Can any other batteries be used?


We cannot recommend the use of any other batteries than those listed above because performance varies widely.

Why use NiMH batteries?

NiMH batteries last much longer than alkaline batteries, especially in cold weather.

Battery Charge Indicator

When battery charge is low, an icon and message will appear. If the batteries are charged, the icon and message will not appear.

Display	Summary
	Nearly depleted. Ready new batteries.
"Change the batteries"	Depleted. Change the batteries.

Approximate Number of Shots per Memory Card

Memory Card	4 GB	16 GB
Number of Shots	1231	5042

- 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. 23).

Number of shots that can be taken



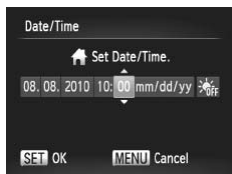
Setting the Date and Time

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.




1 Turn on the camera.

- Press the power button.
- ▶ The Date/Time screen will appear.




2 Set the date and time.

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






3 Complete the setting.

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

? Reappearing Date/Time screen

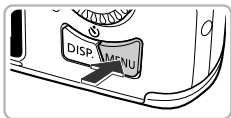
Set the correct date and time. If you have not set the date and time, the Date/Time screen will appear each time you turn on the camera.

💡 Daylight saving time settings

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

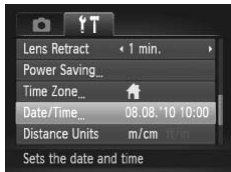
Changing the Date and Time

You can change the current date and time settings.








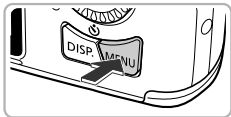
1 Display the menus.

- Press the MENU button.



2 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.



3 Change the date and time.

- Follow Steps 2 and 3 on p. 18 to adjust the setting.
- Pressing the MENU button will close the menu.



Date/Time battery

If the Date/Time screen appears even when the date/time have been correctly set, insert a new date/time battery (p. 152).

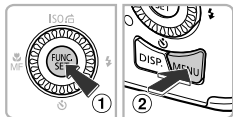
Setting the Display Language

You can change the language that displays on the screen.




1 Enter Playback mode.

- Press the  button.









2 Display the settings screen.

- Press and hold the  button, then immediately press the **MENU** button.





3 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.



What if the clock appears when the button is pressed?

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  tab, and choosing the [Language] menu item.

Formatting Memory Cards



Before you use a new memory card or one that has been formatted 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.

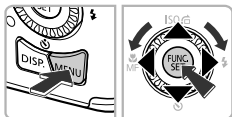


1 Display the menu.



- Press the MENU button.

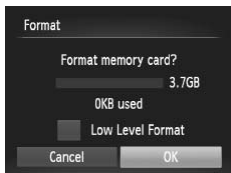
2 Choose [Format].

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





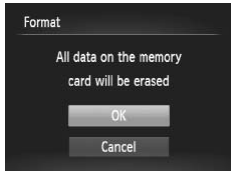
3 Choose [OK].

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




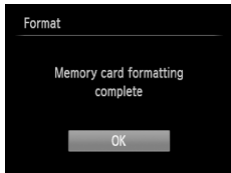
4 Format the memory card.

- Press the ▲▼ buttons or turn the  dial to choose [OK], then press the  button.
- ▶ The memory card will be formatted.



5 Complete formatting.

- ▶ When formatting ends, [Memory card formatting complete] will appear on the screen.
- Press the  button.





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

To take images that are in focus, be sure to first press the shutter button lightly (halfway) to focus, then press fully to shoot.



1 Press halfway (Press lightly to focus).

- Press lightly until the camera beeps twice and AF frames appear where the camera focused.



2 Press fully (Press fully to shoot).

- ▶ 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 shoot without pressing the shutter button halfway, the image may not be in focus.

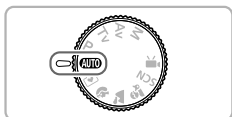
Taking Pictures (Smart Auto)

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.



1 Turn on the camera.

- Press the power button.
- ▶ The start-up screen will appear.



2 Choose **AUTO** mode.

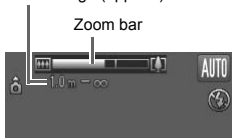
- Set the mode dial to **AUTO**.
- When you point the camera toward the subject, the camera will make a slight noise as it determines the scene.
- ▶ The icon for the determined scene will appear in the upper right of the screen.
- ▶ The camera will focus on detected faces and display frames on them.

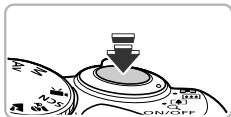


3 Compose the shot.

- Moving the zoom lever toward [🌲] (telephoto) will zoom in on your subject, making it appear larger. Moving the lever toward [🌳🌳🌳] (wide angle) will zoom out from your subject, making it appear smaller. (The zoom bar showing the zoom position appears on the screen.)

Focus range (approx.)





4 Focus.

- Press the shutter button halfway to focus.



AF Frame

- ▶ When the camera focuses, it will beep twice and AF frames will appear where the camera focused.

Several AF frames will appear when the camera focuses on more than one point.



- If [Raise the flash] appears on the screen, raise the flash manually to shoot. If you manually lower the flash until it closes, it will not fire.



5 Shoot.








- Press the shutter button fully.
- ▶ The camera will play the shutter sound and shoot. The flash will automatically fire in low light conditions if it has been raised.
- ▶ 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 an icon appears in the upper right of the screen?

The icon for the determined scene will appear in the upper right of the screen. For details on the icons that appear, see “Scene Icons” (p. 160).

What if...


- **What if the color and brightness of the images do not turn out as expected?**
The scene icon (p. 160) that appears on the screen may not match the actual scene. If this happens, try shooting in **P** mode (p. 68).
- **What if white and gray frames appear when you point the camera toward a subject?**
When faces are detected, a white frame appears on the face of the main subject, while gray frames appear on other detected faces. The frames will follow the subjects within a certain range (p. 80).
If the main subject moves, however, the gray frames will disappear, leaving only the white frame.
- **What if a blue frame appears when you press the shutter button halfway?**
A blue frame appears when a moving subject is detected; the focus and exposure will continuously adjust (Servo AF).
- **What if the indicator blinks orange and  flashes on the screen?**
Attach the camera to a tripod so that the camera does not move and blur the image.
- **What if the camera does not play any sounds?**
Pressing the **DISP.** button while turning on the camera power will turn off all sounds except for warning sounds. To turn the sounds on, press the **MENU** button to choose [Mute] in the  tab, then press the  buttons to choose [Off].
- **What if the image comes out dark even if the flash fired when shooting?**
The subject is too far away for the flash to reach. The effective flash range is approximately 50 cm – 3.0 m (1.6 – 9.8 ft.) at maximum wide angle () and approximately 1.0 – 2.0 m (3.3 – 6.6 ft.) at maximum telephoto ()
- **What if the camera beeps once when the shutter button is pressed halfway?**
Your subject may be too close. Move the zoom lever toward  and hold it until the lens stops moving. The camera will be at its maximum wide angle setting and you will be able to focus on subjects that are about 1 cm (0.4 in.) or more away from the end of the lens. Move the zoom lever toward  and hold it until the lens stops moving. The camera will be at its maximum telephoto setting and you will be able to focus on subjects that are about 1 m (3.3 ft.) or more away from the end of the lens.
- **What if 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.
- **What if the screen turns off when you try to take an image?**
When flash recharging begins, the screen turns off. The screen turns on again when recharging ends.

Viewing Images

You can view the images you have taken on the screen.









1 Enter Playback mode.

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



2 Choose an image.

- Pressing  or turning the  dial counter-clockwise will cycle through the images in the reverse order they were taken, from the newest image to the oldest.
- Pressing  or turning the  dial clockwise will cycle through images in the order they were taken, from oldest to newest.
- The images change more quickly if you keep the  buttons pressed, but they will appear coarse.
- The lens will retract after approximately 1 minute elapses.
- Pressing the  button again while the lens is retracted will turn off the power.



Switching to Shooting mode

Pressing the shutter button halfway, or turning the mode dial in Playback mode switches the camera to Shooting mode.

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.



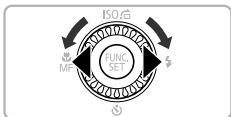
1 Enter Playback mode.

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



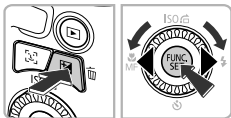
2 Choose an image to erase.

- Press the buttons or turn the dial to display an image to erase.



3 Erase the image.

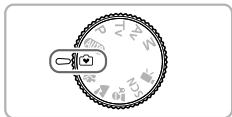
- Press the button.
- Press the buttons or turn the dial to choose [Erase], then press the button.
- ▶ The displayed image will be erased.
- To exit instead of erasing, press the buttons or turn the dial to choose [Cancel], then press the button.




Shooting or Viewing Images in Easy Mode

In Easy mode, operational instructions are displayed on the screen, and the camera is set so that only the buttons explained on this page and the zoom lever are functional. This prevents incorrect operation of the camera, allowing even beginners to take worry-free pictures.

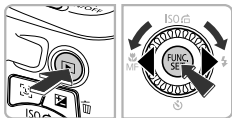
Shooting









- Set the mode dial to .
- Follow Steps 3 – 5 on pp. 23 – 24 to shoot (no sound will play).



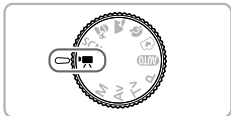
Viewing



- Press the  button, then press the  buttons or turn the  dial to switch images.
- Press the  button, then press the  button, and all the shots you have taken will display for about 3 seconds each. Press the  button again to stop the slideshow.
- To erase images, follow the steps on p. 27.

Shooting Movies

The camera can automatically select all settings so that you can shoot movies just by pressing the shutter button. The audio will record in stereo.





1 Enter mode.

- Set the mode dial to .

Remaining Time



2 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.



3 Focus.

- Press the shutter button halfway to focus.
- ▶ When the camera focuses, it will beep twice.



4 Shoot.

- Press the shutter button fully.

Elapsed Time



Microphone



- ▶ Recording will start, 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, brightness and tone will automatically adjust.

- Do not touch the microphone while shooting.
- Do not press any buttons other than the shutter button while shooting. The sound the buttons make will be recorded in the movie.

5 Stop shooting.

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



Magnifying the subject while shooting

Pressing the zoom lever while shooting will zoom in on or out from the subject. However, operation sounds will be recorded.

Estimated Shooting Times

Memory Card	4 GB	16 GB
Shooting Time	20 min. 43 sec.	1 hr. 24 min. 54 sec.

- Shooting times are based on default settings.
- Maximum clip length is approximately 10 minutes.
- 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 the movies you have shot on the screen.



1 Enter Playback mode.

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



2 Choose a movie.

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



3 Play the movie.

- Press the buttons or turn the dial to choose (Play), then press the button.
- ▶ The movie will play.
- If you press the button, you can pause or resume playback.
- Press the buttons to adjust the volume.
- ▶ After the movie finishes, appears.



What if you can't play back movies on a computer?

- Install the included software (p. 33).
- 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 for Viewing

You can use the included software to transfer images you have shot with the camera to a computer for viewing. If you are already using software included with another Canon-brand compact digital camera, install the software from the included CD-ROM, overwriting your current installation.

System Requirements

Windows

OS	Windows 7 Windows Vista Service Pack 1, Service Pack 2 Windows XP Service Pack 3
Computer model	The above OS should be pre-installed on computers with built-in USB ports.
CPU	Pentium 1.3 GHz or higher (still images), Core2 Duo 1.66 GHz or higher (movies)
RAM	Windows 7 64 bit: 2 GB or more Windows 7 32 bit, Windows Vista 64 bit, 32 bit: 1 GB or more Windows XP: 512 MB or more (still images), 1 GB or more (movies)
Interface	USB
Free Hard Disk Space	ZoomBrowser EX: 200 MB or more CameraWindow: 150 MB or more* PhotoStitch: 40 MB 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

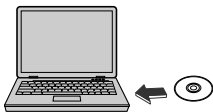
OS	Mac OS X (v10.4 – v10.6)
Computer model	The above OS should be pre-installed on computers with built-in USB ports.
CPU	PowerPC G4/G5 or Intel Processor (still images), Core Duo 1.66 GHz or higher (movies)
RAM	Mac OS X v10.4 – v10.5: 512 MB or more (still images), 1 GB or more (movies) Mac OS X v10.6: 1 GB or more
Interface	USB
Free Hard Disk Space	ImageBrowser: 250 MB or more CameraWindow: 150 MB or more PhotoStitch: 50 MB or more
Display	1,024 x 768 pixels or higher

Preparations

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

1 Install the Software.

Windows



① Place the CD 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.



② Begin installation.

- Click [Easy Installation] and follow the on-screen instructions to proceed with the installation.
- If the [User Account Control] window appears, follow the on-screen instructions to proceed.



③ When the installation finishes, click [Restart] or [Finish].

④ Remove the CD-ROM.


- Remove the CD-ROM when your desktop screen appears.

Macintosh

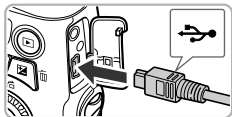
① Place the CD in the computer's CD-ROM drive.

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

② Begin installation.

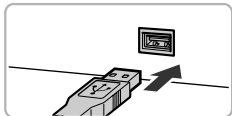
- Double-click the  on the CD.
- Click [Install], and follow the on-screen instructions to proceed with the installation.






2 Connect the camera to the computer.

- Turn off the camera.
- Open the cover and insert the included interface cable's smaller plug (p. 2) firmly into the camera terminal in the direction shown.
- Insert the interface cable's larger plug into the computer. For connection details, refer to the user guide provided with the computer.



3 Turn on the camera.

- Press the  button to turn on the camera.

4 Open CameraWindow.



Windows

- 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] and [CameraWindow].






Macintosh

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



For Windows 7, use the following steps to display CameraWindow.

- ① Click  on the task bar.
- ② In the screen that appears, click the  link to modify the program.
- ③ Choose [Downloads Images From Canon Camera using Canon CameraWindow] and click [OK].
- ④ Double click .

Transfer and View Images



- Click [Import Images from Camera], and then click [Import Untransferred Images].
- ▶ All images not previously transferred will transfer to the computer. Transferred images will be sorted by date and saved in separate folders in the Pictures folder.
- When [Image import complete.] appears, click [OK], then click [X] to close CameraWindow.
- Turn off the camera and unplug the cable.
- For details on how to view images using a computer, refer to the *Software Guide*.



You can transfer images even without using the image transfer function in the included software by simply connecting your camera to a computer. There are, however, the following limitations.

- It may take a few minutes from when you connect the camera to the computer until you can transfer images.
- Images shot in the vertical orientation may be transferred in the horizontal orientation.
- Protection settings for images may be lost when transferred to a computer.
- 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.
- Some functions in the included software may not be available, such as editing movies, and transferring images to the camera.

Accessories

Supplied with Camera



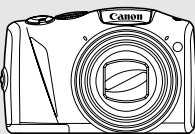
Wrist Strap WS-800



DIGITAL CAMERA
Solution Disk

Stereo AV Cable
AVC-DC400ST*

Interface Cable
IFC-400PCU*



AA Alkaline Batteries
(x2)

*Also available for purchase separately.



Memory Card

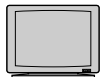


USB card reader



Windows/Macintosh

Canon-Brand PictBridge Compliant Printers

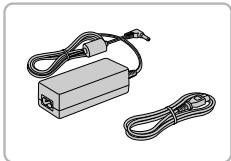


TV

Separately Sold Accessories

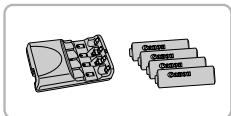
The following camera accessories are sold separately. Some accessories are not sold in some regions, or may no longer be available.

Power Supplies



AC Adapter Kit ACK800

- 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 batteries inside the camera.



Battery and Charger Kit CBK4-300

- This dedicated battery charger kit includes both Battery Charger CB-5AH and four NB-3AH rechargeable AA NiMH (nickel metal hydride) batteries. Recommended for powering the camera for an extended period of time.



You can also purchase NiMH Battery NB4-300, a set of four rechargeable AA NiMH batteries separately. Battery and Charger Kit CBK4-200 can also be used.



Using Accessories Abroad

The battery and charger kit and 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 electrical transformers for foreign travel as they will cause damage.

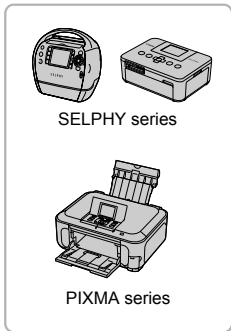
Flash



High-Power Flash HF-DC1

- This externally mounted flash can be used to capture photographic subjects that are too distant for the built-in flash to illuminate.

Printers



SELPHY series

PIXMA series

Canon-Brand PictBridge Compliant Printers

- By connecting your camera to a Canon-brand PictBridge compliant printer, you can print your images without having to use a computer.
For more information, visit your nearest Canon retailer.

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.

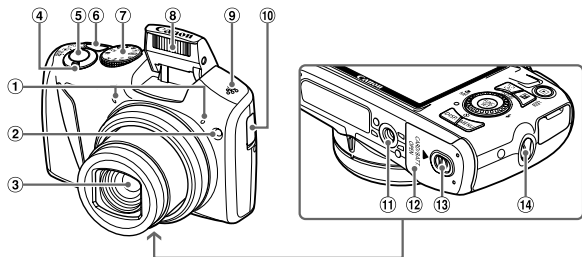
2

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 Microphone (p. 30)
- ② Lamp (pp. 57, 64, 77, 146)
- ③ Lens
- ④ Zoom Lever
Shooting: [T] (Telephoto) / [W] (Wide Angle) (pp. 23, 29, 54)
Playback: [Q] (Magnify) / [I] (Index) (pp. 110, 115)
- ⑤ Shutter Button (p. 22)
- ⑥ Power Button (p. 18)
- ⑦ Mode Dial
- ⑧ Flash (pp. 24, 69, 88)
- ⑨ Speaker
- ⑩ Date/Time Battery Holder (p. 152)
- ⑪ Tripod Socket
- ⑫ Memory Card / Battery Cover (p. 14)
- ⑬ Cover Lock (p. 14)
- ⑭ Strap Mount (p. 13)

Mode Dial

Use the mode dial to change the Shooting mode.

P, Tv, Av, M Mode

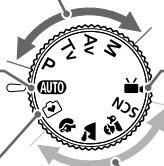
Choose settings yourself to take various types of pictures (pp. 68, 89, 90, 91).

Auto Mode

You can leave it to the camera to select settings for fully automatic shooting (p. 23).

Easy Mode

You can shoot just by pressing the shutter button (p. 28).



Movie Mode

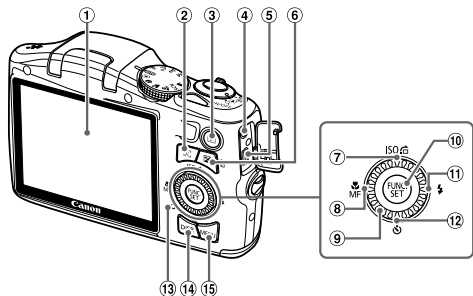
For shooting movies (pp. 29, 99).

Scene Mode

You can shoot with the best settings for the scene (p. 58) or add various effects and shoot (p. 59).

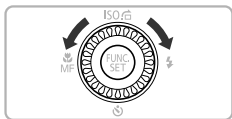


If you turn the mode dial while in Playback mode, the camera will switch to Shooting mode.



- ① Screen (LCD Monitor) (pp. 42, 159, 161)
- ② (Face Selector) Button (p. 84)
- ③ (Playback) Button (pp. 26, 109)
- ④ DC IN (Power Input) Terminal (p. 153)
- ⑤ AV OUT (Audio/Video Output) / DIGITAL Terminal (pp. 34, 117, 134)
- ⑥ (Exposure Compensation) (p. 68) / (Single Image Erase) Button (p. 27)
- ⑦ ISO (p. 72) / (Jump) (p. 111) / Button
- ⑧ (Macro) (p. 69) / **MF** (Manual Focus) (p. 86) / Button
- ⑨ Control Dial
- ⑩ **FUNC./SET** Button (p. 44)
- ⑪ (Flash) (pp. 69, 88) / Button
- ⑫ (Self-Timer) (pp. 57, 76, 77) / Button
- ⑬ Indicator (p. 43)
- ⑭ **DISP.** (Display) Button (p. 42)
- ⑮ **MENU** Button (p. 45)

Control Dial



Turning the control dial allows you to perform operations such as choosing items or switching images. Except for a few operations, the same operations are possible with the buttons.

Screen Display

Switching the Display

You can change the screen display using the **DISP.** button. Refer to p. 159 for details on information that appears on the screen.

Shooting



Information Display



No Information Display



Playback



No Information Display



Simple Information Display



Detailed Information Display



Focus Check Display (p. 114)



You can also switch the display by pressing the **DISP.** button while the image displays right after shooting. However, Simple Information Display is not available. You can change the display that appears first by pressing the **MENU** button, then choosing [Review Info] in the **☑** tab (p. 148).

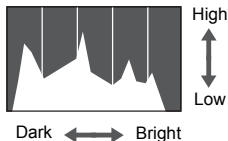
Screen Display in Dark Shooting Conditions

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. 42), overexposed areas of the image flash on the screen.

Histogram during Playback



The graph that appears in “Detailed Information Display” (p. 161) is called the histogram. The histogram shows the distribution of brightness in an image horizontally, and the amount of brightness vertically. When the graph approaches the right side, the image is bright, but when it approaches the left side, the image is dark, and in this way you can judge the exposure.

Indicator

The indicator on the back of the camera (p. 41) will light or blink depending on the camera’s status.

Colors	Status	Operation Status
Green	Lights	Shooting preparation complete/Display off (p. 144)
	Blinks	Recording/reading/transmitting image data
Orange	Lights	Shooting preparation complete (flash on)
	Blinks	Camera shake warning (p. 25)

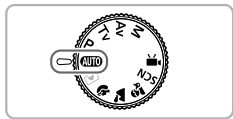


When the indicator blinks green, data is being recorded to/read from the memory card or various information is being transmitted. Do not turn off the power, open the memory card slot/battery cover, shake or jolt the camera. These actions may corrupt the image data or cause the camera or memory card to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

FUNC. Menu – Basic Operations

You can set commonly used functions using the FUNC. menu.

The menu items and options differ depending on the Shooting mode (pp. 162 – 165).



1 Choose a Shooting mode.

- Set the mode dial to the desired shooting mode.




2 Display the FUNC. menu.

- Press the  button.






3 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.

Available Options


Menu Items

4 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 .

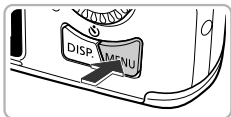


5 Complete the setting.

- Press the  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 (📷) and playback (▶). The options differ depending on the Shooting mode and the Playback mode (pp. 164 – 167).



1 Display the menu.



- Press the MENU button.



2 Choose a tab.

- Press the ◀▶ buttons, or move the zoom lever left or right to choose a tab.

3 Choose an item.

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

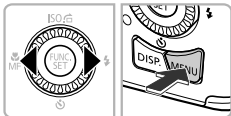


4 Choose an option.

- Press the ◀▶ buttons to choose an option.

5 Complete the setting.

- Press the MENU button to restore the normal screen.



Changing the Sound Settings

You can silence or adjust the volume of camera sounds.

Muting Sounds

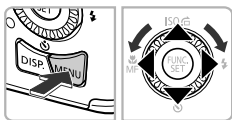


1 Display the menu.

- Press the **MENU** button.

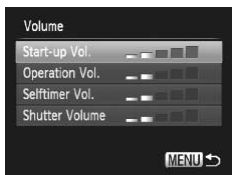
2 Choose [Mute].

- Press the **◀▶** buttons to choose the **↑↑** tab.
- Press the **▲▼** buttons or turn the **○** dial to choose [Mute], then press the **◀▶** buttons to choose [On].
- Press the **MENU** button to restore the normal screen.



You can also mute camera sounds by holding down the **DISP.** button and turning on the power.

Adjusting the Volume



1 Display the menu.

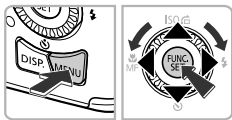
- Press the **MENU** button.

2 Choose [Volume].

- Press the **◀▶** buttons to choose the **↑↑** tab.
- Press the **▲▼** buttons or turn the **○** dial to choose [Volume], then press the **○** button.

3 Change the volume.

- Press the **▲▼** buttons or turn the **○** dial to choose an item, then press the **◀▶** buttons to adjust the volume.
- Press the **MENU** button twice to restore the normal screen.



Changing the Screen Brightness

The screen brightness can be changed in two ways.

Using the Menu

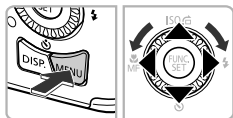


1 Display the menu.

- Press the MENU button.

2 Choose [LCD Brightness].

- Press the ◀▶ buttons to choose the ⚡ tab.
- Press the ▲▼ buttons or turn the ⌚ dial to choose [LCD Brightness].

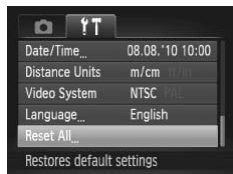


3 Change the brightness.

- Press the ◀▶ buttons to change the brightness.
- Press the MENU button twice to restore the normal screen.

Returning the Camera to Default Settings



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

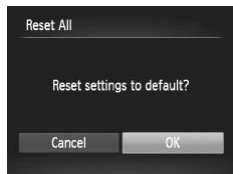
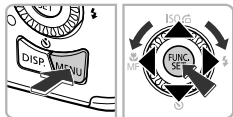


1 Display the menu.



- Press the MENU button.

2 Choose [Reset All].

- Press the ◀▶ buttons to choose the YT tab.
- Press the ▲▼ buttons or turn the  dial to choose [Reset All], then press the  button.



3 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 YT tab, [Language] (p. 20), [Video System] (p. 117), [Time Zone] (p. 144), and the image registered in [Start-up Image] (p. 141).
- The saved data for custom white balance (p. 73).
- Colors that were chosen in Color Accent (p. 96) or Color Swap (p. 97).
- The scene mode chosen in **SCN** (p. 59).
- The Movie mode (p. 100)

Power Saving Function (Auto Power Down)

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

Power Saving during Shooting

The screen will turn off approximately 1 minute after the camera is last operated. After about 2 more minutes, the lens will retract and the power will turn off. When the screen has turned off but the lens has not yet retracted, pressing the shutter button halfway (p. 22) turns on the screen and shooting can continue.

Power Saving during Playback

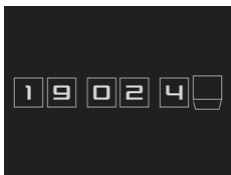
The power will turn off approximately 5 minutes after the camera is last operated.








- You can turn off the power saving function (p. 143).
- You can adjust the time before the screen turns off (p. 144).


Clock Functions

You can check the current time.



- Press and hold the  button.
- ▶ The current time appears.
- 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  button again to cancel the clock display.



When the camera power is off, press and hold the  button, then press the power button to display the clock.

Low Level Memory Card Formatting



Perform low level formatting when [Memory card error] appears, the camera does not operate properly, or you think that the recording/reading speed of a memory card has dropped. As you cannot retrieve the erased data, exercise adequate caution before formatting the memory card.

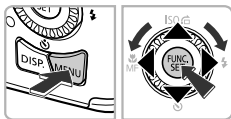
1 Display the menu.

- Press the **MENU** button.






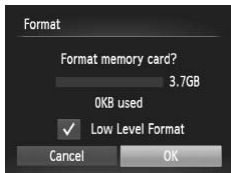
2 Choose [Format].

- Press the **◀▶** buttons to choose the **↑↓** tab.
- Press the **▲▼** buttons or turn the  dial to choose [Format], then press the  button.





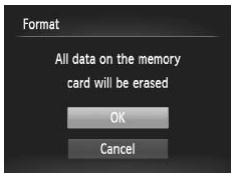
3 Choose [Low Level Format].

- 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.




4 Start the low level format.

- Press the **▲▼** buttons or turn the  dial to choose [OK], then press the  button.
- ▶ Low level formatting starts.
- ▶ When low level formatting ends, [Memory card formatting complete] will appear.

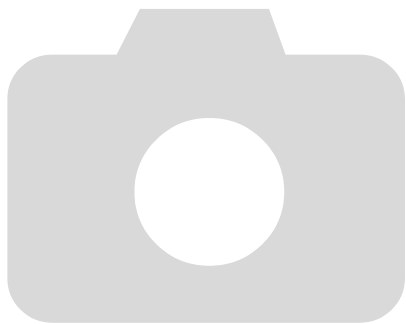


5 Complete the low level format.

- Press the  button.



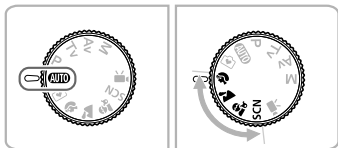
- Low level formatting may take longer than standard formatting (p. 21), since all recorded data is erased.
- You can stop a low level format of a memory card by choosing [Stop]. When stopping low level formatting, the data will be erased but the memory card can be used without problem.



3

Shooting with Commonly Used Functions

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



- This chapter assumes the camera is set to **AUTO** mode for “Zooming in More Closely on Subjects (Digital Zoom)” (p. 54) to “Using the Self-Timer” (p. 57). When shooting in a mode other than **AUTO**, check which functions are available in that mode (pp. 162 – 163).
- “Shooting in Various Conditions” (p. 58) to “Take Shots That Look Like a Miniature Model (Miniature Effect)” (p. 66) assumes that the corresponding mode has been chosen.

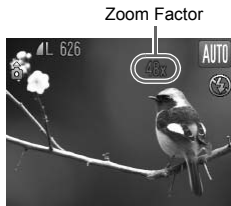
Zooming in More Closely on Subjects (Digital Zoom)

You can use the digital zoom to zoom up to a maximum of approximately 48x and capture subjects that are too far away for the optical zoom to enlarge. The images may appear coarse, however, depending on the recording pixel setting (p. 70) and the zoom factor used.



1 Move the zoom lever toward [🌳].

- 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 when you release the zoom lever.



2 Move it toward [🌳] again.


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

? What if the zoom factor appears in blue?

Images shot at zoom factors that appear in blue will be coarse.



Turning off the digital zoom

To turn off the digital zoom, press the **MENU** button to choose [Digital Zoom] in the  tab, then choose [Off].





The focal length when using the optical zoom and digital zoom together is 28 (W) – 1344 (T) mm, and 28 (W) – 336 (T) mm when using the optical zoom alone (all focal lengths are 35mm film equivalent).

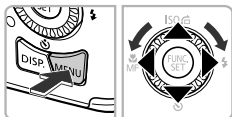
Digital Tele-Converter

The focal length of the lens can be increased by approximately 1.5x or approximately 2.0x. This enables a faster shutter speed and less chance of camera shake than the zoom (including digital zoom) used by itself at the same zoom factor. The images may appear coarse, however, depending on the combination of recording pixel (p. 70) and digital tele-converter settings used.



1 Choose [Digital Zoom].

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



2 Accept the setting.

- Press the **◀▶** buttons to choose a magnification.
- 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.

? What if the zoom factor appears in blue?

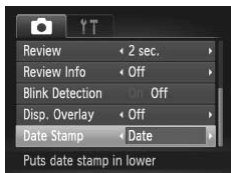
A recording pixel setting of **L** or **M1** will cause image deterioration (the zoom factor will appear in blue).



- The respective focal lengths when using [1.5x] and [2.0x] are 42.0 (W) – 504.0 (T) mm and 56.0 (W) – 672.0 (T) mm (35mm film equivalent).
- The digital tele-converter cannot be used together with the digital zoom.

Inserting the Date and Time

You can insert the shooting date and time in the lower right corner of an image. Once inserted, however, they cannot be deleted. Be sure to check beforehand that the date and time are correctly set (p. 18).

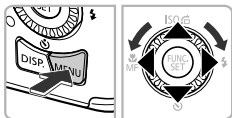


1 Choose [Date Stamp].

- Press the **MENU** button.
- Press the ◀▶ buttons to choose the tab.
- Press the ▲▼ buttons or turn the dial to choose [Date Stamp].

2 Accept the setting.

- Press the ◀▶ buttons to choose [Date] or [Date & Time].
- Pressing the **MENU** button will restore the shooting screen.
- ▶ Once set, [DATE] will appear on the screen.



3 Shoot.

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



You can insert and print the shooting date in images which do not have an embedded date and time as follows. However, if you do this for images with an embedded date and time, the date and time may be printed twice.

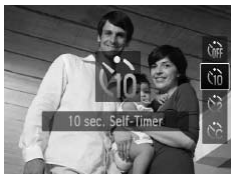
- **Use the DPOF print settings (p. 135) to print.**
- **Use the included software to print.**
Refer to the *Software Guide* for details.
- **Print using printer functions.**
Refer to the *Personal Printing Guide* for details.

Using the Self-Timer



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



1 Press the ▼ button.




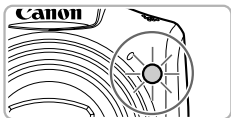
2 Choose 10.

- Press the ▲▼ buttons or turn the  dial to choose 10, then press the  button.
- ▶ Once set, 10 will appear.



3 Shoot.

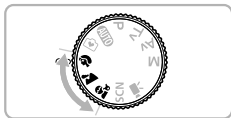
- Press the shutter button halfway to focus on the subject, then press it fully.
- ▶ When the self-timer starts, the lamp blinks and the self-timer sound plays.
- ▶ Two seconds before the shutter releases, the lamp and sound speed up (the lamp remains lit when the flash will fire).
- To cancel shooting with the timer after countdown has started, press the ▼ button.
- To restore the original setting, choose  in Step 2.



You can change the delay time and number of shots (p. 77).

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.



1 Choose a Shooting mode.

- Turn the mode dial to choose the desired Shooting mode.

2 Shoot.



Take portraits (Portrait)

- Produces a soft effect when photographing people.



Take landscapes (Landscape)


- Lets you shoot majestic landscapes with a real sense of depth.



Take shots of kids and pets (Kids&Pets)

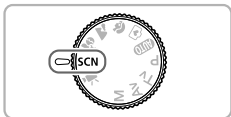
- Lets you capture subjects that move around, such as children and pets, without missing photo opportunities.
- At maximum wide angle setting you will be able to focus on subjects that are about 1 m (3.3 ft.) or more away from the end of the lens, and at maximum telephoto setting you will be able to focus on subjects that are about 3 m (9.8 ft.) or more away from the end of the lens.



In  mode, images may appear coarse because the ISO speed (p. 72) is increased to match the shooting conditions.

Shooting in Special Scenes

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



1 Enter SCN mode.

- Set the mode dial to **SCN**.



2 Choose the Shooting mode.

- After pressing the **FUNC SET** button, press the **▲▼** buttons to choose **SCN**.
- Press the **◀▶** buttons or turn the **MODE** dial to choose a shooting mode, then press the **FUNC SET** button.



3 Shoot.



Take shots in low light conditions (Low Light)

- Lets you shoot in dark places with reduced camera shake and subject blur.
- A recording pixel setting of **M** will display, and the image will be fixed at 1600 x 1200 pixels.



Take shots of people at the beach (Beach)

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



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.



Take shots of fireworks (Fireworks)

- Lets you take shots of fireworks in vivid colors.



In  mode, attach the camera to a tripod to prevent the camera from moving and blurring the image. Additionally, you should set the [IS Mode] to [Off] when shooting with a tripod (p. 149).

Adding Effects and Shooting



Shoot images with vivid colors (Super Vivid)



- Lets you take shots with vivid, intense colors.



Take posterized shots (Poster Effect)

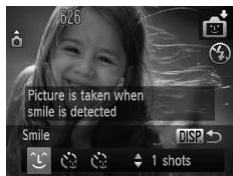
- Lets you take shots that look like an old poster or illustration.








Since you may not achieve the expected results with images shot in  and  modes, try taking some test shots first.

Detecting a Smile and Shooting

The camera will shoot, even without pressing the shutter button, when it detects a smile.





1 Choose ☺.

- Follow Steps 1 – 2 on p. 59 to choose , then press the **DISP.** button.
- Press the   buttons or turn the  dial to choose , then press the **DISP.** button.
- ▶ The camera will enter shooting stand-by, and [Smile Detection on] will appear on the screen.



2 Point the camera at a person.




- Each time the camera detects a smile it will shoot after the lamp lights.
- Pressing the  button will pause smile detection. Press the  button again to resume smile detection.

? What if a smile is not detected?

Smiles are easier to detect if the subject faces the camera, and opens their mouth enough to show some teeth when smiling.



Changing the number of shots

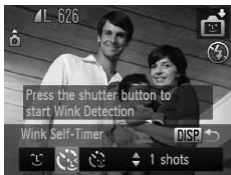
After choosing  in Step 1, press the   buttons.








- You should switch to another mode when you finish shooting, or the camera will continue taking shots each time the camera detects a smile.
- You can also shoot by pressing the shutter button.

Using the Wink Self-Timer

Point the camera at a person and press the shutter button fully. The camera will shoot approximately two seconds after it detects a wink.

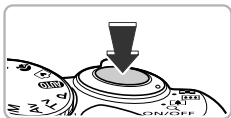


1 Choose .

- Follow Steps 1 – 2 on p. 59 to choose , then press the **DISP.** button.
- Press the   buttons or turn the  dial to choose , then press the **DISP.** button.

2 Compose the shot and press the shutter button halfway.

- Confirm that a green frame appears around the face of the person who will wink.




3 Press the shutter button fully.

- ▶ The camera will enter shooting stand-by, and [Wink to take picture] will appear on the screen.
- ▶ The lamp will blink and the self-timer sound will play.






4 Face the camera and wink.

- ▶ The shutter will release approximately 2 seconds after a wink is detected from the person with a frame around the person's face.
- To cancel the countdown, press the  button.

What if a wink is not detected?

- Wink a bit slowly.
- A wink may not be detected if eyes are covered by hair or a hat, or when wearing glasses.

Changing the number of shots

After choosing  in Step 1, press the   buttons.








- Shutting both eyes will also be detected as a wink.
- If a wink is not detected, the shutter will release approximately 15 seconds later.
- If there are no people in the shot when the shutter button is pressed fully, the camera will shoot after a person enters the shot and winks.

Using the Face Self-Timer

The shutter will release approximately two seconds after the camera detects a new face (p. 80). You can use this when the photographer wants to be in the image, such as a group photo.



1 Choose .

- Follow Steps 1 – 2 on p. 59 to choose , then press the **DISP.** button.
- Press the   buttons or turn the  dial to choose , then press the **DISP.** button.

2 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.




3 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.






4 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 timer after countdown has started, press the  button.



Changing the number of shots

After choosing  in Step 1, press the   buttons.




Even if your face is not detected after joining the subjects, the shutter will release approximately 15 seconds later.




Shoot with the Effects of a Fish-Eye Lens (Fish-eye Effect)

Lets you shoot with the distorting effect of a fish-eye lens.

1 Choose .

- Follow Steps 1 – 2 on p. 59 to choose .

2 Choose an effect level.

- Press the DISP. button.
- ▶ [Effect Level] will appear on the screen.
- Press the   buttons or turn the  dial to choose an effect level, then press the DISP. button.
- ▶ You can check the effect on the screen.

3 Shoot.




Since you may not achieve the expected results depending on the shooting conditions, try taking some test shots first.

Take Shots That Look Like a Miniature Model (Miniature Effect)

Blurs chosen portions in the top and bottom of an image to produce the effect of a miniature model.

1 Choose .

- Follow Steps 1 – 2 on p. 59 to choose .
- ▶ A white frame (the area that will not be blurred) appears on the screen.




2 Choose the area to keep in focus.

- Press the **DISP.** button.
- Move the zoom lever to change the frame size, and press the **▲▼** buttons to change the frame position.
- Pressing the **DISP.** button restores the shooting screen.

3 Shoot.





- If you press the  button in Step 2, the horizontal/vertical orientation of the frame will switch, and you can press the **◀▶** buttons to change the frame position when it is displayed vertically.
- Holding the camera vertically will change the orientation of the frame.
- Since you may not achieve the expected results depending on the shooting conditions, try taking some test shots first.



Modes for other scenes

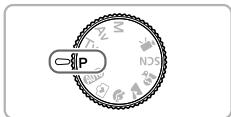
In addition to the modes explained here, the following scene modes are also available:

-  **Color Accent** (p. 96)
-  **Color Swap** (p. 97)

4

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 you have set the mode dial 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. 162 – 165).

Shooting in Program AE

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

The focusing range is approximately 1 cm – infinity (0.4 in. – infinity) at maximum wide angle (📷), and approximately 1 m – infinity (3.3 ft. – infinity) at maximum telephoto (📷).



1 Enter **P** mode.

- Set the mode dial to **P**.

2 Adjust the settings according to your purposes (pp. 68 – 77).

3 Shoot.



What if the shutter speed and aperture value appear 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. 69)
- Choose a higher ISO speed (p. 72)

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.



1 Enter Exposure Compensation mode.

- Press the  button.

2 Adjust the brightness.

- While watching the screen, turn the  dial to adjust the brightness, then press the  button.
- ▶ The exposure compensation amount will appear on the screen.

Turning the Flash On

You can make the flash fire every time you shoot. The effective flash range is approximately 50 cm – 3.0 m (1.6 – 9.8 ft.) at maximum wide angle (☹☹☹), and approximately 1.0 – 2.0 m (3.3 – 6.6 ft.) at maximum telephoto (☹☹).



1 Raise the flash.

2 Choose ⚡.

- After pressing the ▶ button, press the ◀▶ buttons or turn the ⦿ dial to choose ⚡, then press the FUNC SET button.
- ▶ Once set, ⚡ will appear.

? What if the setting screen does not appear even when you press ▶?

The flash is lowered. Raise the flash manually.

Changing the Focusing Range (Macro)

When it is difficult to focus because your shot contains subjects that are near, you can change the focusing range to focus more reliably.



Choose 🌷.

- After pressing the ◀ button, press the ◀▶ buttons or turn the ⦿ dial to choose 🌷, then press the FUNC SET button.
- ▶ Once set, 🌷 will appear.

	Focusing Range	Description
🌷	Approx. 1 – 50 cm (0.4 in. – 1.6 ft.)*	Only focuses on close subjects.

* When at the maximum wide angle (☹☹☹) setting of the lens.

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

💡 How can I take better close-ups?

Try attaching the camera to a tripod and shooting in 🔄 to prevent the camera from moving and blurring the image (p. 76).



will turn gray in the area that displays in the yellow bar underneath the zoom bar, and the camera will not focus.

Changing the Recording Pixel Setting (Image Size)




You can choose from five recording pixel (image size) settings.



1 Choose the recording pixel setting.

- After pressing the  button, press the  buttons to choose .



2 Choose an option.

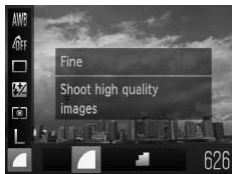
- Press the  buttons or turn the  dial to choose an option, then press the  button.
- ▶ The setting will appear on the screen.



If you choose , you cannot use Digital Zoom (p. 54) or Digital Tele-Converter (p. 55).

Changing the Compression Ratio (Image Quality)



You can choose from the following two compression ratios (image quality):  (Fine),  (Normal).













1 Choose the compression ratio setting.

- After pressing the  button, press the  buttons to choose .

2 Choose an option.

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

Approximate Values for Recording Pixels and Compression Ratio

Recording Pixels	Compression Ratio	Single Image Data Size (Approx. KB)	Number of Shots per Memory Card	
			4 GB	16 GB
L (Large) 12M/4000x3000		3084	1231	5042
		1474	2514	10295
M1 (Medium 1) 6M/2816x2112		1620	2320	9503
		780	4641	19007
M2 (Medium 2) 2M/1600x1200		558	6352	26010
		278	12069	49420
S (Small) 0.3M/640x480		150	20116	82367
		84	30174	123550
W (Widescreen) 4000x2248		2311	1630	6677
		1105	3352	13727

* 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



A2	L	
A3 – A5		M1
5" x 7" Postcard size 3.5" x 5"		M2








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

Changing the ISO Speed



Choose the ISO speed.

- After pressing the ▲ button, press the ▲▼ buttons or turn the  dial to choose an option, then press the  button.
- ▶ The setting will appear on the screen.


	Automatically adjusts the ISO speed to the Shooting mode and shooting conditions.	
  	Low	Fine weather conditions, outdoor shooting.
 	↓	Cloudy, twilight
	High	Nightscares, dark interiors



Changing the ISO speed

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



When the camera is set to , you can press the shutter button halfway to display the automatically set ISO speed.

Adjusting the White Balance

The white balance (WB) function sets the optimal white balance for natural looking colors to match the shooting conditions.



1 Choose the white balance function.

- After pressing the **FUNC SET** button, press the **▲▼** buttons to choose **AWB**.

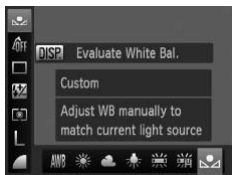
2 Choose an option.

- Press the **◀▶** buttons or turn the **◯** dial to choose an option, then press the **FUNC SET** button.
 - ▶ The setting will appear on the screen.

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

Custom White Balance

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



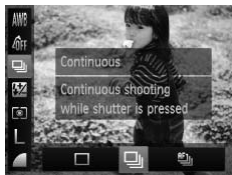
- In Step 2 above, choose .
- Make sure the entire screen is filled with a plain, white colored subject, then press the **DISP.** button.
 - ▶ The tint on the screen will change when a white balance data is set.



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

Continuous Shooting

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



1 Choose a Drive mode.

- After pressing the button, press the to choose .

2 Choose an option.

- Press the or turn the dial to choose or , then press the .

3 Shoot.

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

Mode	Maximum Speed (Approx. images/sec.)	Description
Continuous	1.0	The camera shoots continuously with the focus and exposure set when the shutter button is pressed halfway.
Continuous Shooting AF	0.6	The camera shoots continuously and focuses. The [AF Frame] is set to [Center].
Continuous Shooting LV*	0.7	The camera shoots continuously with the focus fixed to the position set in manual focus. In mode, the focus is locked on the first shot.

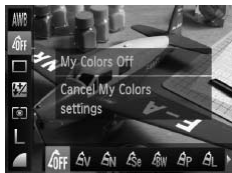
* When in (p. 60), shooting with the AF lock (p. 81) or manual focus modes (p. 86), will change to .



- Cannot be used with the self-timer (pp. 57, 76, 77).
- Continuous shooting speed increases in mode (p. 59).
- Depending on the shooting conditions, the camera settings, and the zoom position, the camera may stop shooting momentarily, or the shooting speed may slow down.
- As the number of images increases, the shooting speed may slow down.
- If the flash fires, the shooting speed may slow down.

Changing the Tone of an Image (My Colors)

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



1 Choose My Colors.

- After pressing the **FUNC SET** button, press the **▲▼** buttons to choose **OFF**.

2 Choose an option.

- Press the **◀▶** buttons or turn the **DISP** dial to choose an option, then press the **FUNC SET** button.
- ▶ The setting will appear on the screen.

OFF My Colors Off	—
V Vivid	Emphasizes the contrast and color saturation for a vivid impression.
N Neutral	Tones down the contrast and color saturation for neutral hues.
Se Sepia	Sepia tones.
W B/W	Black and white.
P 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.
L Lighter Skin Tone	Makes skin tones lighter.
D Darker Skin Tone	Makes skin tones darker.
B Vivid Blue	Emphasizes blue tints. Makes the sky, ocean and other blue subjects more vivid.
G Vivid Green	Emphasizes green tints. Makes mountains, foliage and other green subjects more vivid.
R Vivid Red	Emphasizes red tints. Makes red subjects more vivid.
C Custom Color	You can adjust contrast, sharpness, and color saturation etc. to your preference (p. 76).









- The white balance cannot be set in **Se** and **W** (p. 73).
- In **L** and **D**, colors other than people's skin color may change. You may not obtain the expected results with some skin colors.

Custom Color

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










- Follow Step 2 on p. 75 to choose , 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/darker (skin tone) the effect gets, the more to the left, the weaker/lighter (skin tone) the effect gets.
- Press the **DISP.** button to complete the setting.

Using the Self-Timer to Prevent Camera Shake

The camera will shoot approximately two seconds after the shutter button is pressed, preventing any camera shake that occurs when pressing the shutter button.

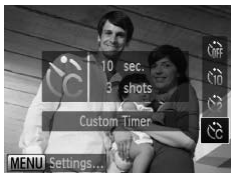


Choose .





- After pressing the  button, press the   buttons or turn the  dial to choose , then press the  button.
- ▶ Once set,  will appear on the screen.
- Follow Step 3 on p. 57 to shoot.

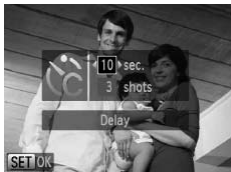
Customizing the Self-Timer

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







1 Choose .

- After pressing the  button, press the  buttons or turn the  dial to choose , then press the **MENU** button immediately.



2 Choose the settings.

- Press the  buttons to choose [Delay] or [Shots].
- Press the  buttons or turn the  dial to choose a value, then press the  button.
- Follow Step 3 on p. 57 to shoot.



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

- Exposure and white balance settings are set with the first shot.
- If the flash fires or you set a high number of shots, the shooting interval may take longer than usual.
- If the memory card becomes full, shooting stops automatically.



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).

Shooting Using a TV Monitor

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

- To connect the camera to a TV, follow the Steps in “Viewing Images on a TV” (p. 117).
- Shooting procedures are the same as when using the camera screen.

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.



1 Focus.

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



2 Recompose.

- Keep the shutter button pressed halfway and move the camera to recompose the scene.

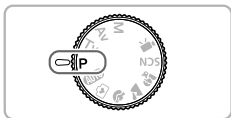
3 Shoot.

- Press the shutter button fully.

5

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 you have set the mode dial to **P**.
- The sections “Setting the Shutter Speed” (p. 89), “Setting the Aperture Value” (p. 90), “Setting the Shutter Speed and Aperture Value” (p. 91), assume that you have set the mode dial to the corresponding mode.
- The section “Adjusting the Flash Output” (p. 95) assumes that you have set the mode dial to **M**.
- The section “Changing the Color and Shooting” (p. 96) assumes that you have set the mode dial to **SCN** and chosen the corresponding mode.
- Before attempting to shoot using a function explained in this chapter in modes other than **P** mode, check if the function is available in those modes (pp. 162 – 165).

Changing the AF Frame Mode

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



Choose [AF Frame].


- After pressing the **MENU** button, choose [AF Frame] in the  tab, then press the   buttons to choose an option.

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 to choose [AF Frame Size] in the  tab, then choose [Small].
- The AF frame is set to [Normal] when using Digital Zoom (p. 54), Digital Teleconverter (p. 55), or Manual Focus (p. 86).



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

Face Detect

- Detects people's faces and sets the focus, exposure (evaluative metering only) and white balance (**AWB** 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.
- A frame will follow a moving subject within a certain range.
- When the shutter button is pressed halfway, up to 9 green frames will appear on faces that the camera focuses on.




- If a face is not detected and only gray frames (no white frame) appear, an AF Frame will appear in the center of the screen when you press the shutter button halfway.
- The AF frame will appear in the center of the screen if you press the shutter button halfway when Servo AF (p. 83) is set to [On] and a face is not detected.
- 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.

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.



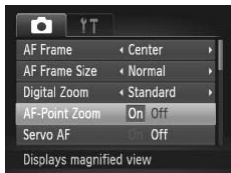
1 Lock the focus.

- Keep the shutter button pressed halfway and press the ◀ button.
- ▶ The focus locks, and **MF** and the MF indicator appear on the screen.
- After you release your finger from the shutter button, press the ◀ button again, then press the ◀▶ buttons or turn the  dial to choose **A**. The focus will unlock.


2 Compose the scene and shoot.

Magnifying the Focal Point

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



1 Choose [AF-Point Zoom].

- Press the **MENU** button to choose [AF-Point Zoom] in the  tab, then press the **◀▶** buttons to choose [On].



2 Check the focus.

- Press the shutter button halfway.
- ▶ In [Face Detect] (p. 80), the face detected as the main subject will appear magnified.
- ▶ In [Center] (p. 80), 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 Detect] if a face cannot be detected or is too big in relation to the screen. In [Center], it will not appear magnified if the camera cannot focus.






The magnified display will not appear when using Digital Zoom (p. 54), Digital Tele-converter (p. 55), Servo AF (p. 83) or when connected to a TV (p. 78).

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.




1 Choose [Servo AF].

- Press the **MENU** button to choose [Servo AF] in the  tab, then press the   buttons to choose [On].

2 Focus.

- The focus and exposure will be maintained where the blue AF frame appears while you press the shutter button halfway.



- The camera may not be able to focus in some conditions.
- In low light conditions, AF frames may not turn blue even after pressing the shutter button halfway. In this case, you can set the focus and exposure with the AF frame setting.
- If a correct exposure cannot be obtained, the shutter speed and aperture value appear in orange. Release your finger from the shutter button, then press it again halfway.
- You cannot shoot with the AF lock in this mode.
- The [AF-Point Zoom] option in the  tab is not available in Servo AF mode.
- Not available when using Self-Timer (pp. 57, 76, 77).





Choosing the Person to Focus On (Face Select)

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





1 Set the AF frame to [Face Detect] (p. 80).

2 Enter Face Select mode.

- Point the camera toward the face of the subject and press the  button.
- ▶ After [Face Select : On] appears, a 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.





3 Choose the face to focus on.

- If you press the  button, the face frame  will move to another face detected by the camera.
- When the frame has made a full circuit of all detected faces, [Face Select : Off] will appear, and the AF frame mode screen will reappear.



4 Shoot.

- Press the shutter button halfway. When the camera focuses,  will change into .
- Press the shutter button fully to shoot.

Changing the Metering Method




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







1 Choose the metering method.

- After pressing the  button, press the  buttons to choose .

2 Choose an option.

- Press the  buttons or turn the  dial to choose an option, then press the  button.
 - ▶ The setting will appear 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 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.



1 Choose MF.

- After pressing the button, press the buttons or turn the dial to choose **MF**, then press the button.
- ▶ **MF** and the MF indicator appear.



2 Focusing roughly.

- The side bar shows your focal point and a distance display for the MF indicator. While looking at the magnified area, turn the dial to find an approximate focus.

3 Fine tuning the focus.

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

MF indicator







- You cannot change the AF frame mode or size (p. 80) while focusing manually. If you want to change the AF frame mode or size, cancel Manual focus mode first.
- In order to focus accurately, try attaching the camera to a tripod.
- When using the Digital Zoom (p. 54), Digital Tele-converter (p. 55), or when using a television as a display (p. 78), you will be able to focus but the magnified area will not display.
- If you press the **MENU** button to display the tab and set [MF-Point Zoom] to [Off], the magnified display will not be available.
- If you press the **MENU** button to display the tab and set [Safety MF] to [Off], you will not be able to fine tune the focus even if you press the shutter button halfway.

Shooting with the AE Lock

You can lock the exposure and shoot, or set the focus and exposure separately to shoot. AE stands for “Auto Exposure”.



1 Lock the exposure.

- Point the camera toward the subject and press the  button while pressing the shutter button halfway.
- ▶ When  appears, the exposure will be locked.
- If you release your finger from the shutter button and press the  button again,  will disappear and AE will unlock.

2 Compose the scene and shoot.



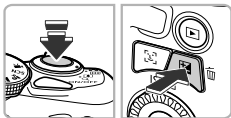
Program Shift

If you lock the exposure and 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. 87), you can lock the exposure for shooting with the flash. FE stands for “Flash Exposure”.

1 Raise the flash and choose (p. 69).



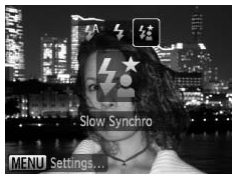
2 Lock the flash exposure.

- 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 the  button again,  will disappear and FE will unlock.

3 Compose the scene and shoot.




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.



1 Raise the flash.

2 Choose .

- After pressing the  button, press the  buttons or turn the  dial to choose , then press the  button.
- ▶ Once set,  will appear on the screen.

3 Shoot.

- 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. Additionally, you should set the [IS Mode] to [Off] when shooting with a tripod (p. 149).

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”.



- 1 Set the mode dial to Tv.**
- 2 Make the setting.**
 - Turn the  dial to set the shutter speed.
- 3 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, 1/125, 1/160, 1/200, 1/250, 1/320, 1/400, 1/500, 1/640, 1/800, 1/1000, 1/1250, 1/1600, 1/2000, 1/2500

- 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 1/2000 second. The camera automatically resets the shutter speed to 1/2000 second if a faster shutter speed is chosen.
- Depending on the zoom position, some shutter speeds may not be available.



- 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.
- You should set the [IS Mode] to [Off] when lowering the shutter speed and shoot with a tripod (p. 149).



What if the aperture value appears in orange?

If the aperture value appears 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 appears in white. Safety shift can also be used (p. 90).

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”, which refers to the size of the aperture opening inside the lens.



1 Set the mode dial to Av.

2 Make the setting.

- Turn the  dial to set the aperture value.

3 Shoot.

Available Aperture Values

F3.4, F4.0, F4.5, F5.0, F5.6, F6.3, F7.1, F8.0

Depending on the zoom position, some aperture values may not be available.




What if the shutter speed appears in orange?

If the shutter speed appears 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 appears in white. Safety Shift can also be used.



Safety Shift

With **Tv** and **Av** modes, if you press the **MENU** button to display the  tab and set [Safety Shift] to [On], 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”.

1 Set the mode dial to **M**.

2 Make the setting.





Shutter Speed

Aperture Value



Standard Exposure Level

Exposure Level

Exposure Level Indicator

- Press the  button to choose the shutter speed or aperture value.
- Turn the  dial to set a 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. 85).
- If you use the zoom after making settings or changing the composition, the exposure level may change.
- Depending on the shutter speed or aperture value set, the screen brightness may change. If the flash is raised and set to , the screen brightness will not change.
- If you press the  button while holding down the shutter button halfway, the shutter speed or aperture value (whichever is not chosen in Step 2), will automatically adjust to obtain the correct exposure (the correct exposure may not be obtained depending on the settings).

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 to choose [i-Contrast] in the  tab, then press the   buttons to choose [Auto].
- ▶ Once set,  will appear on the screen.



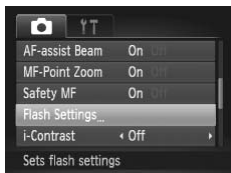
Under some conditions, the image may appear coarse or may not be corrected properly.



You can correct recorded images (p. 131).

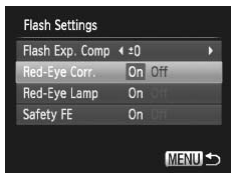
Red-Eye Correction

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



1 Choose [Flash Settings].

- Press the **MENU** button to choose [Flash Settings] in the tab, then press the button.



2 Adjust the setting.

- Press the or turn the to choose [Red-Eye Corr.], then press the to choose [On].
- ▶ Once set, will appear on the screen.



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



- You can correct recorded images (p. 131).
- With the flash raised, if you press the and immediately press the **MENU** button, the screen in Step 2 will appear.

Adjusting the Flash Exposure Compensation





Just like with Exposure Compensation (p. 68), you can adjust the exposure ± 2 stops in 1/3-stop increments when using the flash.



1 Choose .


- After pressing the  button, press the  buttons to choose .

2 Make the setting.




- Press the  buttons or turn the  dial to choose the amount of flash exposure compensation, then press the .
- ▶ Once set,  will appear on the 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. However, if you press the **MENU** button to display the  tab and set [Safety FE] to [Off] in [Flash Settings], the shutter speed and aperture value will not automatically adjust.



- You can also set the flash exposure compensation. Press the **MENU** button and choose [Flash Settings] (p. 93) from the  tab. Then choose [Flash Exp. Comp] and press the  buttons to choose a setting.
- With the flash raised, if you press the  button and immediately press the **MENU** button, the setting screen will appear.

Adjusting the Flash Output

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

1 Set the mode dial to **M**.



2 Choose Flash Output.

- After pressing the **FUNC SET** button, press the **▲▼** buttons to choose **1/2**.

3 Make the setting.

- Press the **◀▶** buttons or turn the **○** dial to choose the amount of Flash Output, then press the **FUNC SET** button.
- ▶ Once set, **1/2** will appear on the screen.



- You can also set the flash output. Press the **MENU** button and choose [Flash Settings] (p. 93) from the **☰** tab. Then choose [Flash Output] and press the **◀▶** buttons to choose a setting.
- In **Tv** and **Av** modes, you can set the flash output if you press the **MENU** button and choose the **☰** tab, then choose [Flash Settings] and set the [Flash Mode] option to [Manual].
- With the flash raised, if you press the **▶** button and immediately press the **MENU** button, the setting screen will appear.

Checking for Shut Eyes

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

1 Choose [Blink Detection].

- Press the **MENU** button, then choose [Blink Detection] in the **☰** tab. Press the **◀▶** buttons to choose [On].

2 Shoot.

- ▶ When a person with shut eyes is detected, a frame and **☹** appear.



- In **9** or **9**, when the number of shots is set to two or more, this function is only available for the last image shot.
- Not available in **☰**, **AF**, or **LV**.

Changing the Color and Shooting

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

Color Accent

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



Recorded color

1 Choose **A**.

- Follow Steps 1 – 2 on p. 59 to choose **A**.

2 Press the **DISP.** button.

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

3 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.

4 Specify the range of colors.

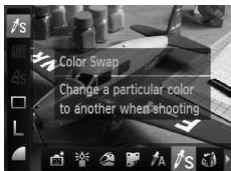
- Press the **▲▼** buttons or turn the **⊙** dial to change the range of colors to be retained.
- Choose a negative value to limit the range of colors. Choose a positive value to extend the range of colors to similar colors.
- Pressing the **DISP.** button restores the shooting screen.



Using the flash may cause unexpected results in this mode.

Color Swap

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



1 Choose \mathcal{S} .

- Follow Steps 1 – 2 on p. 59 to choose \mathcal{S} .



2 Press the DISP. button.

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



3 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.



4 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.

5 Specify the range of colors to be swapped.

- Press the ▲▼ buttons or turn the  dial to adjust the range of colors to be changed.
- Choose a negative value to limit the range of colors. Choose a positive value to extend the range of colors to similar colors.
- Press the **DISP.** button to restore the shooting screen.

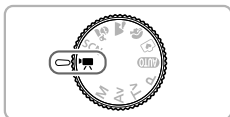




- Using the flash may cause unexpected results in this mode.
- Under some conditions, the image may appear coarse.

6

Using Various Functions for Shooting Movies

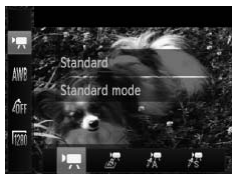
This chapter serves as a more advanced version of the “Shooting Movies” and “Viewing Movies” sections in Chapter 1, and explains how to use various functions for shooting and viewing movies.











- This chapter assumes that the mode dial has been set to  mode.
- The latter half of the chapter explaining movie playback and editing assumes that the  button has been pressed to enter Playback mode.





Changing the Movie Mode

You can choose between four Movie modes.





Choose a Movie mode.

- After pressing the  button, press the   buttons to choose .
- Press the   buttons or turn the  dial to choose a movie mode, then press the  button again.

 Standard	Normal mode.
 Miniature Effect	You can shoot movies that look like a miniature model (p. 101).
 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, when shooting. See “Changing the Color and Shooting” (p. 96) for details.
 Color Swap	




Under some conditions, colors may not turn out as expected in  and  modes.

Shoot Movies That Look Like a Miniature Model (Miniature Effect)

You can shoot movies that look like moving miniature models. You create the miniature model effect by choosing the upper and lower portions of the scene that will be blurred, and the playback speed, which makes people and objects in the scene move quickly during playback. Audio will not be recorded.

1 Choose .

- Perform the operations on p. 100 to choose .
- ▶ A white frame (the area that will not be blurred) appears on the screen.




2 Choose the area to keep in focus.

- Press the **DISP.** button.
- Move the zoom lever to change the frame size, and press the **▲▼** buttons to change the frame position.



3 Choose a playback speed.


- Press the **MENU** button.
- Press the **◀▶** buttons or turn the  dial to choose a playback speed.
- Pressing the **DISP.** button restores the shooting screen.

4 Shoot.

Playback Speeds and Estimated Playback Times (for 1 Min. Clips)

Speed	Playback Time
5x	12 sec.
10x	6 sec.
20x	3 sec.



- If you press the  button in Step 2, the horizontal/vertical orientation of the frame will switch, and you can press the **◀▶** buttons to change the frame position when it is displayed vertically.
- Holding the camera vertically will change the orientation of the frame.
- Since you may not achieve the expected results depending on the shooting conditions, try taking some test shots first.

Changing the Image Quality

You can choose between three image quality settings.



1 Choose the image quality setting.

- After pressing the **FUNC SET** button, press the **▲▼** buttons to choose **1280**.

2 Choose an option.

- Press the **◀▶** buttons or turn the **◉** dial to choose an option, then press the **FUNC SET** button.
- ▶ The option you set will appear on the screen.

Image Quality Table

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

Estimated Shooting Time

Memory Card Capacity	4 GB	16 GB
Image Quality		
1280	20 min. 43 sec.	1 hr. 24 min. 54 sec.
640	43 min. 43 sec.	2 hrs. 59 min. 3 sec.
320	1 hr. 58 min. 19 sec.	8 hrs. 4 min. 30 sec.

- Based on Canon's testing standards.
- Recording will automatically stop when the clip file size reaches 4 GB, or when the recording time reaches approximately 10 minutes when shooting in **1280**, and approximately 1 hour when shooting in **640** or **320**.
- Recording may stop even if the maximum clip length has not been reached on some memory cards. SD Speed Class 4 or higher memory cards are recommended.

AE Lock/Exposure Shift

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



1 Focus.

- Press the shutter button halfway to focus.

2 Lock the exposure.




- After releasing the shutter button, press the \blacktriangle button to lock the exposure. The exposure shift bar appears.
- Press the \blacktriangle button again to release the lock.






3 Change the exposure.

- While watching the screen, turn the \odot dial to adjust the exposure.

4 Shoot.

Other Shooting Functions

The following functions can be used in the same way as for still images. Functions marked with a * can be used in the same way as for still images when in ,  or .













- **Zooming in More Closely On Subjects***
 - The optical and digital zoom (p. 54) are available in .
 - Only the optical zoom is available in  and .
 - Neither the optical nor digital zooms are available while shooting in . Be sure to set the optical zoom before shooting.
 - The sound of the zoom will be recorded.
- **Using the Self-Timer (p. 57)**
- **Changing the Focusing Range (Macro) (p. 69)***
Macro shooting is not available in .
- **Adjusting the White Balance (p. 73)**
- **Changing the Tone of an Image (My Colors) (p. 75)**
- **Using the Self-Timer to Prevent Camera Shake (p. 76)***
- **Customizing the Self-Timer (p. 77)**
The number of shots cannot be set.
- **Shooting Using a TV Monitor (p. 78)***
- **Shooting with the AF Lock (p. 81)***
- **Shooting in Manual Focus Mode (p. 86)***
- **Turning off the AF Assist Beam (p. 146)***
- **Displaying the Overlay (p. 148)***
[3:2 Guide] is not available.
- **Changing the IS-Mode Settings (p. 149)***
You can switch between [Continuous] and [Off].

Playback Functions

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

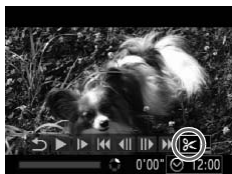
- Erasing Images (p. 27)
- Quickly Searching Images (p. 110)
- Viewing Images in Filtered Playback (p. 111)
- Viewing Slideshows (p. 113)
- Changing Image Transitions (p. 115)
- Viewing Images on a TV (p. 117)
- Protecting Images (p. 118)
- Erasing All Images (p. 122)
- Tagging Images as Favorites (p. 124)
- Organizing Images by Category (My Category) (p. 125)
- Rotating Images (p. 127)

Summary of Movie Control Panel in “Viewing Movies” (p. 31)

	Exit
	Playback
	Slow motion playback (you can press the ◀▶ buttons or turn the  dial to adjust the speed. Sound will not play back.)
	Display the first frame
	Previous frame (Rewind if you hold down the  button.)
	Next frame (Fast forward if you hold down the  button.)
	Display the last frame
	Edit (p. 106)
	Appears when connected to a PictBridge compliant printer (p. 134). Refer to the <i>Personal Printing Guide</i> for details.

Editing

You can trim the beginnings and ends of recorded movies.




Movie Editing Panel



















Movie Editing Bar



1 Choose ✂.





- Follow Steps 1 – 3 on p. 31 to choose ✂, then press the  button.
- ▶ The movie editing panel and the movie editing bar will appear.

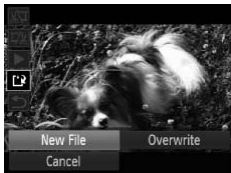
2 Set the editing range.

- Press the ▲▼ buttons and choose  or .
- If you press the ◀▶ buttons or turn the  to move ,  will appear at points where the movie can be edited. If you choose , you can trim the beginning of the movie from . If you choose , you can trim the end of the movie from .
- ▶ Even if you move  to a point other than a , only the portion from the nearest  to the left will be trimmed when  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.





3 Check the edited movie.

- Press the ▲▼ buttons to choose  (Play), then press the  button. The edited movie will play.
- To edit the movie again, repeat Step 2.

- To cancel editing, press the ▲▼ buttons, and choose . After pressing the  button, press the ◀▶ buttons or turn the  dial to choose [OK], then press the  button again.



4 Save the edited movie.

- Press the ▲▼ buttons to choose , then press the .
- 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.
- When there is not enough space left on the memory card, only [Overwrite] can be chosen.
- If the batteries are depleted partway through editing, the edited movie clips may not be saved.
- When editing movies, you should use batteries with sufficient charge, fully charged NiMH AA batteries or an AC adapter kit (both sold separately) (p. 37).



7

Using Various Playback and Editing Functions

This chapter explains various ways to play back and edit images.

- 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. 128 – 132) 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 the same time lets you quickly find the image you want.








1 Move the zoom lever toward .

- ▶ Images will display in an index.
- The number of images increases each time you move the lever toward .
- The number of images decreases each time you move the lever toward .



2 Choose an image.






- Turn the  dial to switch images.
- 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


Turning the control dial will display images in a line letting you quickly search them. You can also jump by the shooting date (Scroll Display).



Choose an image.

- If you set the camera to single image playback and turn the  dial quickly, the images will display as shown on the left. Turn the  dial to choose an image.
- Pressing the  button restores single image playback.
- If you press the   buttons during Scroll Display, you can search images by the shooting date.



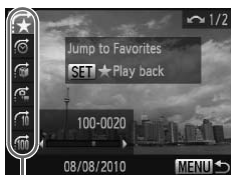
To turn off this effect, press the **MENU** button to choose [Scroll Display] in the  tab, then choose [Off].

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. 118) or delete (p. 122) all images at once while filtered.










 Jump to Favorites	Displays images tagged as favorites (p. 124)
 Jump Shot Date	Displays the images shot on a specified date.
 Jump to My Category	Displays the images of a specified category (p. 125).
 Jump to Still/Movie	Displays either still images or movies.
 Jump 10 Images	Jumps over 10 images at a time.
 Jump 100 Images	Jumps over 100 images at a time.

Search by , , and









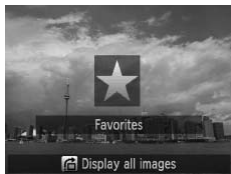
Target Filters

1 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 only display images that match the filter of the chosen target image.
- Press the **DISP.** button to switch between Information Display and No Information Display.
- Pressing the **MENU** button restores single image playback.

2 View the filtered images.

- 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.
- If you press the  button, [Filtered playback settings cleared] appears. Pressing the  button cancels filtered playback.



? What if you can't choose a filter?

Filters that do not have any corresponding images cannot be chosen.






Filtered playback

In filtered playback (Step 2), you can view filtered images with “Quickly Searching Images” (p. 110), “Viewing Slideshows” (p. 113), and “Magnifying Images” (p. 115). You can process all filtered images at once while performing operations in “Protecting Images” (p. 118), “Erasing All Images” (p. 122), or “Choosing Images for Printing (DPOF)” (p. 135), by choosing all of the filtered images. However, if you change the category (p. 125), or edit an image and save it as a new image (p. 128), a message will appear, and filtered playback will cancel.

Jump by 10 and 100 Images



- In single image playback, press the  button, then press the  buttons to choose a jump method.
- If you press the  buttons, the display will advance to the image that is the chosen number of images away.
- Pressing the **MENU** button restores single image playback.

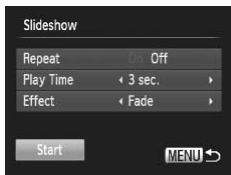
Viewing Slideshows

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



1 Choose [Slideshow].

- Press the **MENU** button to choose [Slideshow] from the tab, then press the button.



2 Make the setting.

- Press the or turn the dial to choose an item, then 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

3 Choose [Start].

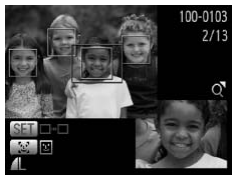
- Press the or turn the dial to choose [Start], then press the button.
 - ▶ The slideshow will start a few seconds after [Loading image...] displays.
- You can pause/restart a slideshow by pressing the button again.
- Press the **MENU** button to stop the slideshow.



- If you press the or turn the dial during playback, the image will switch. If you keep the pressed, you can fast-forward through images.
- The power saving function does not work during slideshows (p. 49).
- You cannot change [Play Time] if [Bubble] is chosen in [Effect].

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.



1 Press the **DISP.** button to switch to the focus check display (p. 42).

- For images with detected faces, you can also switch to the focus check display by pressing the **[F]** button.
- ▶ 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.



2 Switch frames.

- Move the zoom lever toward **Q** once.
- ▶ The screen shown to the left will appear.
- Press the **[F]** button to switch between frames on detected faces. Press the **FUNC SET** button to move to other frames.

3 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.

Magnifying Images



Approximate Location of Displayed Area

Move the zoom lever toward .

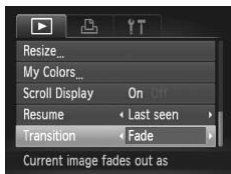
- The display will zoom in on the image. If you continue to hold the zoom lever, it will zoom in up to a maximum factor of 10x.
- If you press the     buttons, you can move the location of the displayed area.
- Move the zoom lever toward  to zoom out, or continue to hold it to return to single image playback.
- If you turn the  dial, you can switch images while zoomed.






In magnified display, pressing the **MENU** button restores single image playback.

Changing Image Transitions

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



Choose [Transition].



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

Displaying Various Images (Smart Shuffle)

The camera will choose four images based on the displayed image. If you choose one of those images, the camera will choose four more images letting you enjoy the playing back of images in an unexpected order. This will work best if you take many shots of various scenes.









1 Choose [Smart Shuffle].

- Press the **MENU** button to choose [Smart Shuffle] in the  tab, then press the  button.
- ▶ Four images will appear as possibilities.



2 Choose an image.

- Press the     buttons to choose the image you want to view next.
- ▶ The chosen image will be displayed in the middle, and the next four possibilities will appear.
- Pressing the  button will display the middle image at full size. Press the  button again to restore the original display. You can also use the zoom lever in the same way.
- Pressing the **MENU** button restores single image playback.



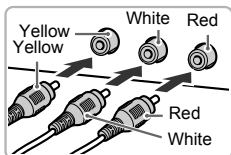
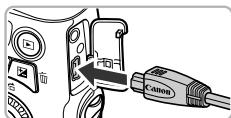
- Only still images shot with this camera will play back in Smart Shuffle.
- [Smart Shuffle] is not available in the following situations:
 - If there are less than 50 images taken with this camera on the memory card.
 - If you play back images not supported by Smart Shuffle.
 - During filtered playback.

Viewing Images on a TV

Using the supplied stereo AV cable (p. 2), you can connect the camera to a TV to view images you have shot.

1 Turn off the camera and TV.

2 Connect the camera to the TV.




- Open the camera's terminal cover and fully insert the cable plug into the camera's terminal.
- Insert the cable plug fully into the video input terminals as shown in the illustration.

3 Turn on the TV and switch it to the input the cable is connected to.


4 Turn on the camera.



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



What if the images don't display correctly 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  tab and [Video System] to switch to the correct video system.

Protecting Images

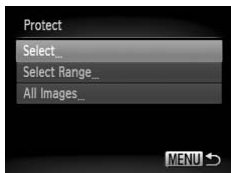
You can protect important images so that they cannot be accidentally erased with the camera (pp. 27, 122).

Choose a selection method



1 Choose [Protect].

- Press the **MENU** button to choose [Protect] in the tab, then press the button.



2 Choose a selection method.

- Press the or turn the dial to choose a selection method, then press the .
- Pressing the **MENU** button will restore the menu screen.



If you format the memory card (pp. 21, 50), protected images will also be erased.



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








Choosing Images Individually

1 Choose [Select].





- Follow Step 2 on p. 118 to choose [Select], then press the  button.



2 Choose images.

- Press the   buttons or turn the  dial to choose an image, then press the  button.
- ▶  will appear.
- Pressing the  button again deselects the image and  will disappear.
- To choose additional images, repeat the above procedure.

3 Protect the image.


- If you press the **MENU** button, a confirmation screen will appear.
- Press the   buttons or turn the  dial to choose [OK], then press the  button.



If you switch shooting modes or turn off the power before performing the operations in Step 3, images will not be protected.

Select Range

1 Choose [Select Range].



- Follow Step 2 on p. 118 to choose [Select Range], then press the  button.



2 Choose a starting image.

- Press the  button.





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



3 Choose an ending image.

- Press the ▶ button to choose [Last image], then press the  button.



- Press the ◀▶ buttons or turn the  dial to choose an image, then press the  button.
- You cannot choose images before the first image.




4 Protect images.

- Press the ▼ button to choose [Protect], then press the  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

1 Choose [All Images].

- Follow Step 2 on p. 118 to choose [All Images], then press the  button.



2 Protect images.

- Press the ▲▼ buttons or turn the  dial to choose [Protect], then press the  button.

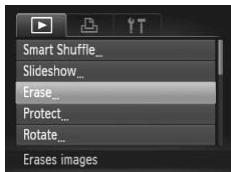


You can unlock groups of protected images if you choose [Unlock] in Step 4, while in [Select Range] or Step 2 while in [All Images].

Erasing All Images

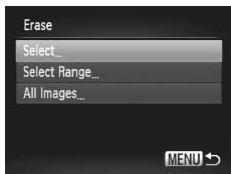
You can choose images and then erase them in groups. Since erased images cannot be recovered, exercise adequate caution before erasing. Protected images (p. 118) cannot be erased.

Choosing a Selection Method



1 Choose [Erase].

- Press the **MENU** button to choose [Erase] in the tab, then press the button.



2 Choose a selection method.

- Press the buttons or turn the dial to choose a selection method, then press the .
- Pressing the **MENU** button will restore the menu screen.

Choosing Images Individually

1 Choose [Select].

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





2 Choose an image.

- ▶ If you follow Step 2 on p. 119 to choose images, a will appear on the screen.
- Pressing the button again deselects the image and will disappear.
- To choose additional images, repeat the above procedure.




3 Erase.

- If you press the **MENU** button, a confirmation screen will appear.
- Press the ◀▶ buttons or turn the  dial to choose [OK], then press the  button.

Select Range

1 Choose [Select Range].

- Follow Step 2 on p. 122 to choose [Select Range], then press the  button.

2 Choose images.

- Follow Steps 2 and 3 on p. 120 to choose images.




3 Erase.



- Press the ▼ button to choose [Erase], then press the  button.

Choose All Images

1 Choose [All Images].

- Follow Step 2 on p. 122 to choose [All Images], then press the  button.

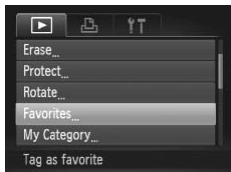
2 Erase.

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



Tagging Images as Favorites

When you tag images as favorites, you can easily categorize just those images. You can also filter out just those images for viewing, protecting or erasing (p. 111).



1 Choose [Favorites].

- Press the **MENU** button to choose [Favorites] in the tab, then press the button.



2 Choose an image.

- Press the buttons or turn the dial to choose an image, then press the .
- ▶ will appear on the screen.
- Pressing the button again untags the image and disappears.
- To choose additional images, repeat the above procedure.

3 Make the setting.

- If you press the **MENU** button, a confirmation screen will appear.
- Press the buttons or turn the dial to choose [OK], then press the .



If you switch Shooting modes or turn off the power before making the setting in Step 3, images will not be tagged as favorites.



If you use Windows 7 or Windows Vista and transfer tagged images to the computer, they will be given a star rating of 3 (★★★☆☆) (except for movies).

Organizing Images by Category (My Category)

You can organize images into categories. You can display the images in a category in Filtered Playback (p. 111) and process all images at once by using the functions below.

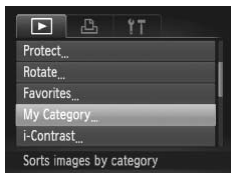
- Viewing Slideshows (p. 113), Protecting Images (p. 118), Erasing All Images (p. 122), Choosing Images for Printing (DPOF) (p. 135)



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

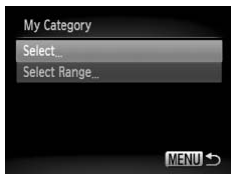
- : Images with detected faces, or images shot in or modes.
- : Images detected as , or in **AUTO** or modes, or images shot in or modes.
- : Images shot in , , modes.

Choosing a Selection Method



1 Choose [My Category].

- Press the **MENU** button to choose [My Category] in the tab, then press the button.



2 Choose a selection method.

- Press the buttons or turn the dial to choose a selection method, then press the .
- Pressing the **MENU** button will restore the menu screen.

Choosing Images Individually

1 Choose [Select].

- Follow Step 2 above to choose [Select], then press the .

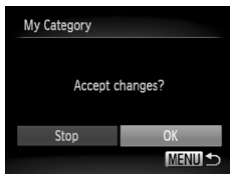
2 Choose an image.

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



3 Choose a category.

- Press the ▲▼ buttons to choose a category, then press the **FUNC/SET** button.
- ▶ ✓ will appear on the screen.
- Pressing the **FUNC/SET** button again deselects the image and ✓ will disappear.
- To choose additional images, repeat the above procedure.



4 Make the setting.

- If you press the **MENU** button, a confirmation screen will appear.
- Press the ◀▶ buttons or turn the **DISP** dial to choose [OK], then press the **FUNC/SET** button.



If you switch Shooting modes or turn off the power before making the setting in Step 3, images will not be tagged as My Category.

Select Range

1 Choose [Select Range].

- Follow Step 2 on p. 125 to choose [Select Range], then press the **FUNC/SET** button.

2 Choose images.

- Follow Steps 2 and 3 on p. 120 to choose images.



3 Choose a category.

- Press the ▼ button to choose an item, then press the ◀▶ buttons or turn the **DISP** dial to choose a category.

4 Choose the setting.

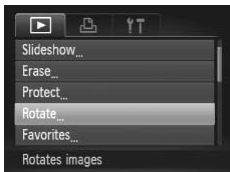
- Press the ▼ button to choose [Select], then press the **FUNC/SET** button.



If you choose [Deselect] in Step 4, 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.



1 Choose [Rotate].

- Press the **MENU** button to choose [Rotate] in the tab, then press the button.



2 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.



Movies with a resolution of cannot be rotated.

Resizing Images

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



1 Choose [Resize].

- Press the **MENU** button to choose [Resize] in the tab, then press the button.

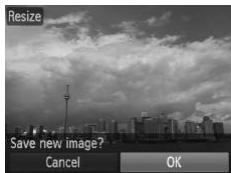
2 Choose an image.

- Press the buttons or turn the dial to choose an image, then press the button.



3 Choose an image size.

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



4 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.



5 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], then press the button.
- ▶ The saved image will be displayed.



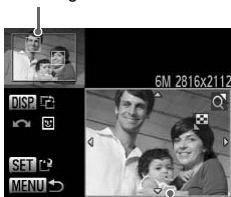
- You cannot resize an image to a larger size.
- Images recorded at a pixel setting of (p. 70), or saved as **XS** in Step 3 cannot be edited.

Trimming

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



Trimming Area



Trimming Area Display

Recorded pixels after trimming



1 Choose [Trimming].

- Press the **MENU** button to choose [Trimming] in the tab, then press the button.

2 Choose an image.

- Press the buttons or turn the dial to choose an image, then press the button.

3 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 orientation.
- 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 .
- Press the button.

4 Save as a new image and display.

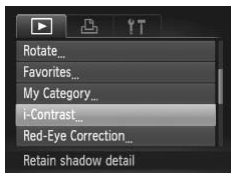
- Follow Steps 4 and 5 on p. 128.





- Images recorded at a pixel setting of **S** or **W** (p. 71), or images resized to **XS** (p. 128) cannot be edited.
- The width and height ratio of an image that can be trimmed is fixed at 4:3.
- The number of recorded pixels in a trimmed image will be smaller than before trimming.

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 four levels of correction, and save the image as a new file.







1 Choose [i-Contrast].

- Press the **MENU** button to choose [i-Contrast] in the  tab, then press the  button.

2 Choose an image.

- Press the   buttons or turn the  dial to choose an image, then press the  button.

3 Choose a menu item.

- Press the   buttons or turn the  dial to choose an option, then press the  button.

4 Save as a new image and display.

- Follow Steps 4 and 5 on p. 128.



- Under some conditions, the image may appear coarse or not be corrected properly.
- Repeatedly adjusting the same image may cause it to become coarse.

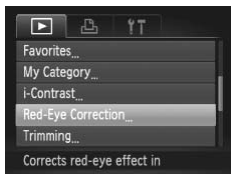


What if the image wasn't corrected by the [Auto] option as well as you would like?

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

Correcting the Red-Eye Effect

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



1 Choose [Red-Eye Correction].

- Press the **MENU** button to choose [Red-Eye Correction] in the tab, then press the button.

2 Choose an image.

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

3 Correct the image.

- Press the .
- ▶ Red-eye detected by the camera will be corrected and a frame will appear around the corrected portion.
- You can magnify or reduce the size of the image using the procedures in "Magnifying Images" (p. 115).



4 Save as a new image and display.

- Press the buttons or turn the dial to choose [New File], then press the .
- ▶ The image will be saved as a new file.
- Follow Step 5 on p. 128.



- Some images may not be corrected properly.
- 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.

8

Printing

This chapter explains how to choose images for printing, and print using a Canon-brand PictBridge compliant printer (sold separately) (p. 38).

Please also refer to the *Personal Printing Guide*.

Canon-Brand PictBridge Compliant Printers



Printing Images

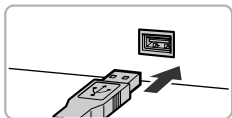
You can easily print the pictures you take by connecting the camera to a PictBridge compliant printer (sold separately) using the supplied interface cable (p. 2).

1 Turn off the camera and printer.



2 Connect the camera to the printer.

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



3 Turn on the printer.

4 Turn on the camera.

- Press the button to turn on the camera.
- ▶ SET will appear on the screen.



5 Choose an image to print.

- Press the buttons or turn the dial to choose an image, then press the button.





6 Print images.

- Press the ▲▼ buttons to choose [Print], then press the 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.



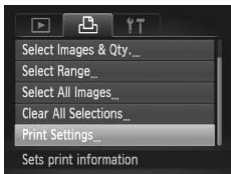
- Refer to the *Personal Printing Guide* for details on printing.
- Refer to p. 38 for Canon-brand PictBridge compliant printers.
- Index printing (p. 136) is not available on certain Canon-brand PictBridge compliant printers (sold separately).

Choosing Images for Printing (DPOF)

You can choose up to 998 images on a memory card for printing and specify settings such as the number of copies so that they can be printed together (p. 137) 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.



1 Choose [Print Settings].

- Press the MENU button to choose [Print Settings] in the tab, then press the button.


2 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.


Choosing Images for Printing (DPOF)

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 shooting date.
	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 settings in the prints.
-  may 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.
- If [Date] is set to [On], some printers may print the date twice.





- 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  tab (p. 18).
- Movies cannot be chosen.





Choosing the Number of Copies




1 Choose [Select Images & Qty.].

- Press the **MENU** button to choose [Select Images & Qty.] in the  tab, then press the  button.


2 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 images in [Index], ✓ appears on the screen. Pressing the  button again will deselect the image and ✓ will disappear.




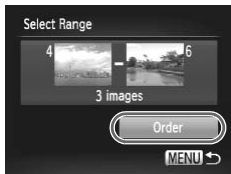
3 Set the number of prints.

- 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 copies for index prints. You can only choose which images to print (as shown in Step 2).
- Pressing the **MENU** button accepts the settings and restores the menu screen.

Select Range

1 Choose [Select Range].

- In Step 1 on p. 136, choose [Select Range], then press the  button.
- Follow Steps 2 and 3 on p. 120 to choose images.




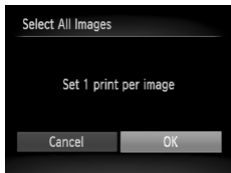
2 Make print settings.

- Press the ▲▼ buttons to choose [Order], then press the  button.



Set All Images to Print Once

1 Choose [Select All Images].

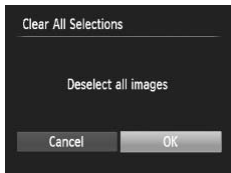
- In Step 1 on p. 136, choose [Select All Images], then press the  button.




2 Make print settings.

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



Clearing All Selections



1 Choose [Clear All Selections].

- In Step 1 on p. 136, choose [Clear All Selections], then press the  button.

2 All selections will be cleared.

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

Print Chosen Images


You can print images added to the print list (pp. 135 – 137) by connecting the camera to a PictBridge compliant printer.



1 Connect the camera to the printer.

- Follow Steps 1 to 4 on p. 134.

2 Print.

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

9

Customizing Camera Settings

You can customize various settings 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 Camera Settings

You can customize convenient and commonly used functions from the **F/T** tab (p. 45).

Changing Sounds

You can change each of the camera's operation sounds.



- Choose [Sound Options], then press the **FUNC SET** button.
- Press the **▲▼** buttons or turn the **DISP** dial to choose an option.
- Press the **◀▶** buttons to choose an option.

1	Preset sounds (cannot be modified)
2	Preset sounds You can use the included software to change the sounds (p. 2).

Turning off Hints & Tips

When you choose an item in the **FUNC.** menu (p. 44) or **MENU** (p. 45), a description of the function (hints and tips) is displayed. You can turn off this function.







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

Changing the Start-up Screen


You can change the start-up screen that appears when you turn on the camera.








- Choose [Start-up Image], then press the  button.
- Press the   buttons or turn the  dial to choose an option.

<input type="checkbox"/> x	No start-up image
1	Preset images (cannot be modified)
2	Preset images You can set recorded images, and use the included software to change the images.









Registering Recorded Images as the Start-up Screen

When you press the  button and set the camera to Playback mode, you can register an image.



- Choose [Start-up Image], then press the  button.
- Press the   buttons or turn the  dial to choose [2], 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.



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



Register the start-up image or sounds with the included software

The dedicated operation sounds and start-up images on the included software can be registered to the camera. Refer to the *Software Guide* for details.

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

Even if you shoot using a new memory card, the file numbers are assigned consecutively until an image with the number 9999 is taken/saved.

Auto Reset

If you replace the memory card with a new one, or a new folder is created, file numbering begins with 0001 again.



- If you use a memory card already containing images, the newly assigned file numbers may continue the existing numbering for both [Continuous] and [Auto Reset]. If you want to start over with file number 0001, format the memory card before use (p. 21).
- Refer to the *Software Guide* for information regarding folder structure or image types.

Creating Folders by Shooting Date

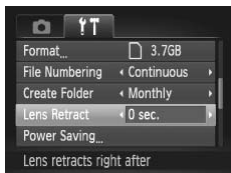
Images are saved into folders created each month, however, you can also create folders by shooting date.



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

Changing the Lens Retract Time

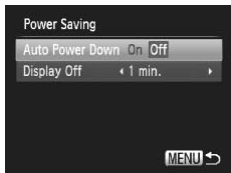
For safety reasons, the lens retracts about 1 minute after pressing the [▶] button when in a Shooting mode (p. 26). If you want the lens to retract immediately when you press the [▶] button, set the retract time to [0 sec.].





- Choose [Lens Retract], then press the ◀▶ buttons to choose [0 sec.].

Turning off the Power Saving Function

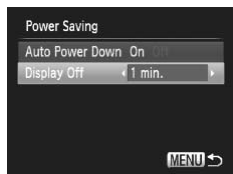
You can set the power saving function (p. 49) to [Off]. Setting it to [On] is recommended to save battery power.







- 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 sure to turn the camera off after use.

Setting the Screen Shut-Off Time

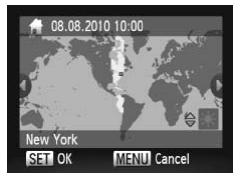
You can adjust the time the screen takes to shut off automatically (p. 49). This also works when [Auto Power Down] is set to [Off].









- Choose [Power Saving], then press the  button.
- 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, you should choose less than [1 min.].

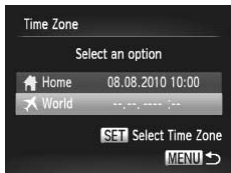
Using the World Clock

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.



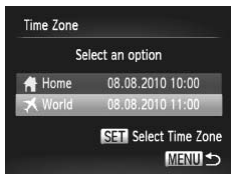
1 Set the home time zone.

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



2 Set the world time zone.

- Press the ▲▼ buttons or turn the dial to choose [World].
- Press the ◀▶ buttons or turn the dial to choose the destination time zone.
- You can also set the daylight saving time as in Step 1.
- Press the button.



3 Choose the world time zone.

- Press the ▲▼ buttons or turn the dial to choose , then press the **MENU** button.
- ▶ will appear on the shooting screen (p. 159).



If you change the date or time in the setting (p. 18), your [Home] time and date will automatically change.


Changing Distance Units

You can change the distance units that display in the zoom bar (p. 23) and the MF indicator (p. 86) from m/cm to ft/in.



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

Changing Shooting Function Settings

If you set the mode dial to **P**, you can change the settings in the  tab (p. 45).





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. 162 – 165).

Switching the Focus Setting

The camera focuses on whatever it is aimed at even when the shutter button is not pressed. However, you can set it so that the camera only focuses when the shutter button is pressed halfway.





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

On	Since the camera focuses continuously until you press the shutter button halfway, it allows you to shoot without missing photo opportunities.
Off	The camera does not focus continuously, thereby conserving battery power.

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].

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 Right After Shooting

You can change the length of time the images display right 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	Images will not display.

Changing the Way the Image Displays Right After Shooting

You can change the way the image displays right after shooting.



- Choose [Review Info], then press the ◀▶ buttons to choose an option.

Off	Displays the image only.
Detailed	Displays detailed information (p. 161).
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. 114).

Displaying the Overlay

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



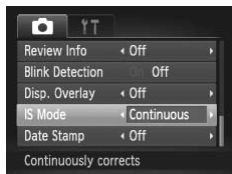
- Choose [Disp. Overlay], then press the ◀▶ buttons to choose an option.

Grid Lines	A grid overlays the screen.
3:2 Guide	Gray bars appear on the top and bottom of the screen. This area will not print when printing on paper with a 3:2 aspect ratio.
Both	Both grid lines, and the 3:2 guide appear.



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

Changing the IS-Mode Settings



- Choose [IS Mode], then press the ◀▶ buttons to choose an option.

Continuous	Image stabilization is always on. You can confirm the effects 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.

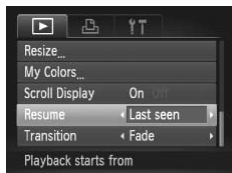


- If camera shake is too strong, attach the camera to a tripod. You should also set the IS Mode to [Off] when the camera is attached to a tripod.
- When using [Panning], hold the camera horizontally to shoot. Image stabilization does not work when the camera is held vertically.

Changing Playback Function Settings

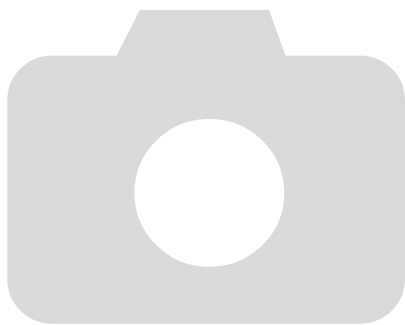
You can adjust the settings in the [▶] tab by pressing the [▶] button (p. 45).

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.



10

Useful Information

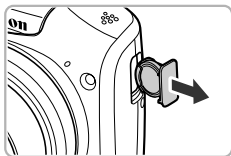
This chapter introduces how to change the date/time battery, the use of the AC adapter kit (sold separately), troubleshooting tips, and contains lists of functions and items that appear on the screen.



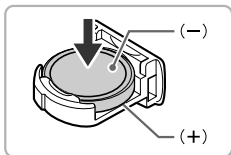
Replacing the Date/Time Battery

The life of the date/time battery (back-up battery) is approximately 7 years. If the Date/Time settings screen appears every time the camera is turned on, replace the date/time battery with a new one (CR1220).

1 Turn off the camera.

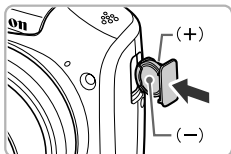


2 Remove the date/time battery holder.



3 Replace the battery.

- Insert the battery with (+) and (-) sides oriented correctly.



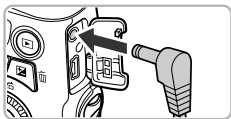
4 Insert the battery holder.

5 Turn on the camera and set the date/time (p. 18).

Using Household Power

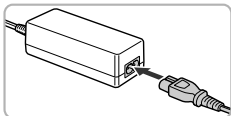
If you use AC Adapter Kit ACK800 (sold separately), you can use the camera without worrying about how much charge is left in the batteries.

1 Turn off the camera.



2 Plug the cord into the camera.

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



3 Connect the power cord.

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



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

Troubleshooting

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

Power

You pressed the power button, but nothing happened.

- Confirm that the batteries are the correct type, and are not depleted (p. 17).
- Confirm that the batteries are properly inserted (p. 14).
- Confirm that the memory card/battery cover is securely closed (p. 15).
- If the battery terminals are dirty, battery performance will decrease. Clean the terminals with a cotton swab and re-insert the batteries several times.

Batteries are consumed quickly.

- Battery performance decreases at low temperatures. Warm the batteries, for example, by placing them in your pocket, taking care that the terminals do not come into contact with any metal objects.

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. 15).

TV output

Image is distorted or not showing on TV (p. 117).

Shooting

Cannot shoot.

- Set the mode dial to a Shooting mode (p. 40).
- When in Playback mode (p. 20), press the shutter button halfway (p. 22).

Screen does not display properly in dark places (p. 42).

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.
- When shooting under fluorescent or LED lighting, the screen may flicker.
- When shooting bright light sources, a bar of light (purplish red) may appear on the screen.

The screen turns off and you cannot shoot when you press the shutter button (p. 25).

appears when the shutter button is pressed halfway (p. 25).


- Set the [IS mode] to [Continuous] (p. 149).
- Raise the flash and set it to  (p. 69).
- Increase the ISO speed (p. 72).
- Attach the camera to a tripod. Additionally, you should set the [IS Mode] to [Off] when shooting with a tripod (p. 149).


Image is blurred.

- Press the shutter button halfway to focus on the subject, then press fully to shoot (p. 22).
- Shoot the subject within the focusing distance (p. 168).
- Set the [AF-assist Beam] to [On] (p. 146).
- Confirm that functions which you do not intend to use (macro, etc.) are not set.
- Shoot using the focus lock or AF lock (pp. 78, 81).

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 AF frame will appear and the camera will focus.

Subject is too dark.

- Raise the flash and set it to  (p. 69).
- Correct the brightness with exposure compensation (p. 68).
- Adjust the image with i-Contrast (pp. 92, 131).
- Use AE Lock, or spot metering to shoot (pp. 85, 87).

Subject is too bright (overexposed).



- Lower the flash and set it to .
- Correct the brightness with exposure compensation (p. 68).
- Use AE Lock, or spot metering to shoot (pp. 85, 87).
- Reduce the light illuminating the subject.

Image is dark even though the flash fired (p. 25).

- Shoot within an appropriate distance for flash photography (p. 69).
- Correct the flash exposure compensation amount or flash output (pp. 94, 95).
- Increase the ISO speed (p. 72).

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

- Shoot within an appropriate distance for flash photography (p. 69).
- Lower the flash and set it to .
- Correct the flash exposure compensation amount or flash output (pp. 94, 95).

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. 72).
- Depending on the Shooting mode, when shooting in a high ISO speed the image may appear rough or grainy (pp. 58, 59).

Eyes appear red (p. 93).

- Set the [Red-Eye Lamp] to [On] (p. 147). When shooting with the flash, the lamp (on the front of the camera) lights (p. 40), 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. 50).

Cannot 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" and "Shooting Menu" (pp. 162 – 165).

Cannot operate buttons.

- When the mode dial is set to , some buttons cannot be used (p. 28).

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 (pp. 21, 30).

appeared on the screen 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. 50).
- Change the image quality setting (p. 102).
- Use a memory card capable of recording at high speeds (p. 102).

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 had a low-level format performed on it with this camera (p. 50).
- If you copy a movie to a memory card that reads slowly, playback may interrupt momentarily.
- Depending on its capabilities, when playing movies on a computer, frames may drop or the audio may cut out.






Cannot operate buttons.

- When the mode dial is set to , some buttons cannot be used (p. 28).

Computer

Cannot transfer images to a computer.

It may be possible to solve the problem when the camera is connected to a computer via cable by reducing the transfer speed.

- Press the  button to enter Playback mode. With the MENU button held down, press the  and  buttons simultaneously. Press the  buttons to choose [B] when it appears on the screen, then press the  button.

List of Messages That Appear on the Screen

If error messages appear on the screen, 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. 15).

Memory card locked

- The SD memory card, SDHC memory card or SDXC memory card's write protect tab is set to "LOCK". Unlock the write protect tab (pp. 14, 15).

Cannot record!

- You attempted to shoot an image without a memory card. Install the memory card in the correct direction to shoot (p. 15).

Memory card error (p. 21)

- If the same message appears even when a formatted memory card is installed in the correct direction, contact a Canon Customer Support Help Desk (p. 50).

Insufficient space on card

- There is not enough free space on the memory card to shoot (pp. 23, 28, 31, 53, 67, 99) or edit images (pp. 128 – 132). Erase the images (pp. 27, 122) to open space for new images, or insert an empty memory card (p. 14).

Change the batteries (p. 17)

No Image.

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

Protected! (p. 118)

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

- Unsupported images, or images with corrupted 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 play back this content in Smart Shuffle/ Cannot rotate/Cannot modify image/Cannot register this image!/ Cannot modify/Cannot assign to category/Unselectable image.

- Incompatible images cannot be magnified (p. 115), played back in Smart Shuffle (p. 116), tagged as favorites (p. 124), rotated (p. 127), edited (pp. 128 – 132), registered to the start-up screen (p. 141), categorized (p. 125), or added to a print list (p. 135).
- Images manipulated on a computer, that have had their file name changed, or have been taken with a different camera may not be magnified, played back in Smart Shuffle, tagged as favorites, rotated, edited, registered to the start-up screen, categorized, or added to a print list.
- Movies cannot be magnified (p. 115), played back in Smart Shuffle (p. 116), edited (pp. 128 – 132), added to a print list (p. 135), or registered to the start-up screen (p. 141).

Invalid selection range

- When choosing the selection range (pp. 120, 123, 126, 137), 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.

Exceeded selection limit

- You chose more than 998 images in print settings. Choose less than 998 images (p. 136).
- Print settings could not be saved correctly. Reduce the number of selected images and try again (p. 136).
- You chose 501 or more images in Protect (p. 118), Erase (p. 122), Favorites (p. 124), My Category (p. 125), or choosing Images for Printing (DPOF) (p. 135).

Communication error

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

Naming error!

- The folder or image could not be created because there is an image with the same file name as the folder or image that the camera is attempting to create, or the highest possible file number has already been reached. In the **FN** menu, change [File Numbering] to [Auto Reset] (p. 142) or format the memory card (p. 21).

Lens Error

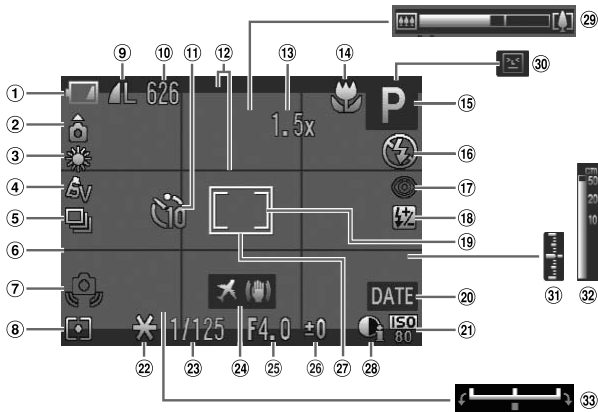
- This error can occur if you hold the lens while it is in motion or when using it in a location with excessive dust or sand in the air.
- If this error message continues to appear, contact a Canon Customer Support Help Desk as there may be a problem with the lens.

A camera error was detected (Error number)

- If an error code appears directly after taking a picture, the shot may not have been recorded. Check the image in Playback mode.
- If this error code reappears, note the Error number (Exx) and contact a Canon Customer Support Help Desk as there may be a problem with the camera.

Information Displayed on the Screen

Shooting (Information Display)



- | | | |
|--|--|--|
| ① Battery Charge Indicator (p. 17) | ⑪ Self-Timer (pp. 57, 76, 77) | ⑳ ISO Speed (p. 72) |
| ② Camera Orientation* (p. 17) | ⑫ Disp. Overlay (p. 148) | ㉑ AE Lock (p. 87), FE Lock (p. 87) |
| ③ White Balance (p. 73) | ⑬ Digital Zoom Magnification (p. 54) / Digital Teleconverter (p. 55) | ㉒ Shutter Speed (pp. 89, 91) |
| ④ My Colors (p. 75) | ⑭ Focusing Range (pp. 69, 86), AF Lock (p. 81) | ㉓ Image Stabilizer (p. 149) / Time Zone (p. 144) |
| ⑤ Drive Mode (p. 74) | ⑮ Shooting Mode (p. 162), Scene Icon (p. 160) | ㉔ Aperture Value (pp. 90, 91) |
| ⑥ Grid Lines (p. 148) | ⑯ Flash Mode (pp. 69, 88) | ㉕ Exposure Compensation (p. 68) |
| ⑦ Camera shake warning (p. 25) | ⑰ Red-Eye Correction (p. 132) | ㉖ AF Frame (p. 80) |
| ⑧ Metering Method (p. 85) | ⑱ Flash Exposure Compensation / Flash Output (pp. 94, 95) | ㉗ i-Contrast (p. 92) |
| ⑨ Compression (Image Quality) (p. 70) / Recording Pixels (pp. 70, 102) | ㉚ Spot AE Point Frame (p. 85) | ㉘ Zoom Bar (p. 23) |
| ⑩ Still Images: Recordable Shots (p. 71) / Movies: Remaining Time (p. 102) | ㉛ Date Stamp (p. 56) | ㉙ Blink Detection (p. 95) |
| | | ㉚ Exposure Level (p. 91) |
| | | ㉛ MF Indicator (p. 86) |
| | | ㉜ Exposure Shift Bar |

* : Standard, : Held vertically

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

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

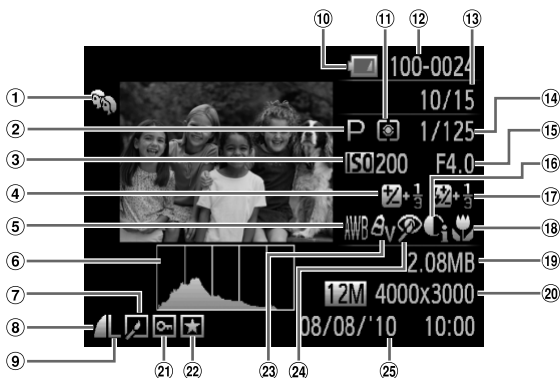
Scene Icons

In **AUTO** mode, 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.

Subject Background	People			Non-Human Subjects/ Landscapes	Close Subjects	Icon Background Color
		When Moving	With Strong Facial Shadows			
Bright				AUTO		Gray
Backlit			—			
Including Blue Skies				AUTO		Light Blue
Backlit			—			
Sunsets	—				—	Orange
Spotlights						
Dark				AUTO		Dark Blue
When Using Tripod	*	—		*	—	

* Appears when the scene is dark and the camera is attached to a tripod.

Playback (Detailed Information Display)



- | | | |
|--|---|---|
| ① My Category (p. 125) | ⑩ Battery Charge Indicator (p. 17) | ⑱ Focusing Range (pp. 69, 86) |
| ② Shooting Mode (p. 162) | ⑪ Metering Method (p. 85) | ⑲ File Size (pp. 71, 102) |
| ③ ISO Speed (p. 72), Playback Speed (Movies) (p. 101) | ⑫ Folder Number – File Number (p. 142) | ⑳ Still Images: Recording Pixels (p. 70)
Movies: Movie Length (p. 102) |
| ④ Exposure Compensation Amount (p. 68), Exposure Shift Amount (p. 103) | ⑬ Displayed image number / Total number of images | ㉑ Protect (p. 118) |
| ⑤ White Balance (p. 73) | ⑭ Shutter Speed (pp. 89, 91), Image Quality (Movies) (p. 102) | ㉒ Favorites (p. 124) |
| ⑥ Histogram (p. 43) | ⑮ Aperture Value (pp. 90, 91) | ㉓ My Colors (pp. 75, 130) |
| ⑦ Image Editing (pp. 128 – 132) | ⑯ i-Contrast (pp. 92, 131) | ㉔ Red-Eye Correction (pp. 93, 132) |
| ⑧ Compression (Image Quality) (p. 70) | ⑰ Flash (pp. 69, 88), Flash Exposure Compensation (p. 94) | ㉕ Shooting Date and Time (p. 18) |
| ⑨ Recording Pixels (pp. 70, 102), MOV (Movies) | | |

Functions Available in Each Shooting Mode

Function	Shooting modes					
	M	Av	Tv	P	AUTO	
Exposure Compensation (p. 68)/Exposure Shift (p. 103)	—	○	○	○	—	—
AE Lock/FE Lock (pp. 87, 103)	—	○	○	○	—	—
ISO Speed (p. 72)		○	○	○	○	○
		○	○	○	○	—
Self-Timer (pp. 57, 76, 77)		○	○	○	○	○
		○	○	○	○	—
		○	○	○	○	—
Flash (pp. 69, 88)*3		—	—	—	○	○
		○	○	○	○	—
		—	○	—	○	*4 *4
		—	—	—	—	—
Program Shift (p. 87)	—	○	○	○	—	—
Focusing Range (p. 69)		○	○	○	○	—
		○	○	○	○	○
		○	○	○	○	—
AF Lock (p. 81)	○	○	○	○	—	—
Face Select (p. 84)	○	○	○	○	○	—




Func. Menu		M	Av	Tv	P	AUTO	
White Balance (p. 73)		○	○	○	○	○	○
		○	○	○	○	—	—
My Colors (p. 75)		○	○	○	○	○	○
		○	○	○	○	—	—
Drive Mode (p. 74)		○	○	○	○	○	○
		○	○	○	○	—	—
		○	○	○	○	—	—
Flash Exposure Compensation (p. 94)	-2 to +2	—	○	○	○	—	—
Metering Method (p. 85)		○	○	○	○	○	○
		○	○	○	○	—	—
Recording Pixels (pp. 70, 102)		○	○	○	○	○	*6
		—	—	—	—	—	—
Compression Ratio (Image Quality) (p. 70)		○	○	○	○	○	*9

*1 FE Lock not available. *2 The number of shots cannot be specified, and the time delay cannot be set to 0 seconds. *3 Fixed to when the flash is lowered, but selectable when the flash is raised. *4 Not selectable but switches to depending on the circumstances.

Functions Available in Each Shooting Mode

			SCN																
P	A	S	SCN			A	S	A	S	A	S	A	S	A	S	A	S	A	S
			SCN	SCN	SCN														
○	○	○	○	○	○	○	○	—	—	○	○	○	○	○	○	○	○	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	*1	—
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	—	—	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	—	—	—	○	○	○	*2	*2	*2	○	○	○	○	○	*2	*2	*2
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	—	—	—	—
○	○	○	○	○	○	—	○	○	○	○	○	○	○	○	—	—	—	—	—
—	*5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	○	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	○	—	—	—	—	—	—	○	—	○	—
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	—	—	—	○	○	○	○	○	○	○	○	○	○	—	○	○	○
○	○	—	—	—	—	○	○	○	○	○	○	○	○	○	○	—	○	○	○
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Func. Menu																			
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*5 Not selectable but switches to  when the flash fires. *6 Fixed to **L**. *7 Fixed to **M**. *8  not available.
 *9 Fixed to .

○ Selectable, or set automatically. — Not selectable

Menus

Shooting Menu

Function		Shooting Modes					
		M	Av	Tv	P	AUTO	☑
AF Frame (p. 80)	Center	○	○	○	○	—	—
	Face Detect	○	○	○	○	*1	*1
AF Frame Size (p. 80)*2	Normal/Small	○	○	○	○	—	—
Digital Zoom (p. 54)	Standard	○	○	○	○	○	*3
	Off	○	○	○	○	○	—
	Digital Tele-converter (1.5x/2.0x)	○	○	○	○	○	—
AF-Point Zoom (p. 82)	On/Off	○	○	○	○	○	—
Servo AF (p. 83)	On/Off	○	○	○	○	*4	—
Continuous AF (p. 146)	On/Off	○	○	○	○	*3	*3
AF-assist Beam (p. 146)	On/Off	○	○	○	○	○	*3
MF-Point Zoom (p. 86)	On/Off	○	○	○	○	—	—
Safety MF (p. 86)	On/Off	○	○	○	○	—	—
Flash Settings (pp. 93, 94, 95, 147)	Flash Mode	Auto/Manual	*5	○	○	*6	*6
	Flash Exp.Comp	-2 to +2	—	○	○	○	—
	Flash Output	Minimum/ Medium/ Maximum	○	○	○	—	—
	Red-Eye Corr.	On/Off	○	○	○	○	—
	Red-Eye Lamp	On/Off	○	○	○	○	*3
	Safety FE	On/Off	—	○	○	○	*3
i-Contrast (p. 92)	Auto/Off	○	○	○	○	*7	*7
Safety Shift (p. 90)	On/Off	—	○	○	—	—	—
Review (p. 147)	Off/2 – 10 sec./Hold	○	○	○	○	○	*8
Review Info (p. 148)	Off/Detailed/Focus Check	○	○	○	○	○	—
Blink Detection (p. 95)	On/Off	○	○	○	○	○	—
Disp. Overlay (p. 148)	Off/Grid Lines	○	○	○	○	○	—
	3:2 Guide/Both	○	○	○	○	○	—
IS Mode (p. 149)	Continuous/Off	○	○	○	○	*9	*9
	Shoot Only/Panning	○	○	○	○	—	—
Date Stamp (p. 56)	Off/Date/Date & Time	○	○	○	○	○	—

*1 9 points when a face is not detected. *2 Available when the AF frame set to [Center]. *3 Fixed to [On].

*4 [On] when moving people are detected. *5 Fixed to [Manual]. *6 Fixed to [Auto]. *7 Fixed to [Auto].

*8 Fixed to 2 seconds. *9 Fixed to [Continuous].

				SCN															
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○	○	*3	—	—	—	○	○	○	○	—	—	○	○	○	—	—	—	—	
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*3	*3	*3	*3	*3	*3	*3	*3	*3	*3	*3	*3	*3	*3	*3	—	—	—	—	
—	—	—	—	—	—	*7	—	—	—	—	—	—	—	—	—	—	—	—	
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○ Selectable, or set automatically. — Not selectable

Set up Menu

Item	Content	Ref. Page
Mute	On/Off*	p. 46
Volume	Set all operation sounds (5 levels).	p. 46
Sound Options	Set the sounds for each camera operation.	p. 140
Hints & Tips	On*/Off	p. 140
LCD Brightness	Set within a range of ± 2 .	p. 47
Start-up Image	Add an image as a start-up image.	p. 141
Format	Formats memory card, erasing all data	pp. 21, 50
File Numbering	Continuous*/Auto Reset	p. 142
Create Folder	Monthly*/Daily	p. 143
Lens Retract	1 min.* / 0 sec.	p. 143
Power Saving	Auto Power Down: On*/Off Display Off: 10, 20 or 30 sec./1*, 2 or 3 min.	pp. 49, 143, 144
Time Zone	Home/World	p. 144
Date/Time	Date and time settings	p. 19
Distance Units	m/cm* / ft/in	p. 145
Video System	NTSC* / PAL	p. 117
Language	Choose display language.	p. 20
Reset All	Returns camera to default settings.	p. 48

* Default setting

Playback Menu

Item	Content	Ref. Page
Smart Shuffle	Starts Smart Shuffle.	p. 116
Slideshow	Plays back images automatically.	p. 113
Erase	Erases images (Select, Select Range, All Images)	p. 122
Protect	Protects images (Select, Select Range, All Images)	p. 118
Rotate	Rotates images.	p. 127
Favorites	Tags or untags images as favorites.	p. 124
My Category	Categorizes images (Select, Select Range)	p. 125
i-Contrast	Corrects dark portions and contrast in still images.	p. 131
Red-Eye Correction	Corrects red eyes in still images.	p. 132
Trimming	Trims portions of still images.	p. 129
Resize	Resizes and saves still images.	p. 128
My Colors	Adjusts colors in still images.	p. 130
Scroll Display	On*/Off	p. 110
Resume	Last seen*/Last shot	p. 149
Transition	Fade*/Scroll/Slide/Off	p. 115

* Default setting

Print Menu

Item	Content	Ref. Page
Print	Displays printing screen (When connected to a printer).	—
Select Images & Qty.	Chooses individual images for printing.	p. 136
Select Range	Chooses starting and ending images for printing.	p. 137
Select All Images	Chooses all images for printing.	p. 137
Clear All Selections	Cancel all settings for printing.	p. 138
Print Settings	Sets the printing style.	p. 135

Specifications

Image Sensor

Camera Effective Pixels Approx. 12.1 million pixels

Lens

Focal Length 12x zoom: 5.0 (W) – 60.0 (T) mm
(35mm film equivalent: 28 (W) – 336 (T) mm)

Focusing Range 1 cm (0.4 in.) – infinity (W), 1 m (3.3 ft.) – infinity (T)
• Macro 1 – 50 cm (W) (0.4 in. – 1.6 ft. (W))

Image Stabilizer System Lens-shift type

Imaging Processor DIGIC 4

LCD Monitor

Type TFT color (wide viewing angle type)

Size 3.0 type

Effective Pixels Approx. 230,000 dots

Aspect Ratio 4:3

Features Brightness adjustment (5 levels)

Focus

Control System Autofocus: Single (Continuous in Auto mode),
Continuous, Servo AF (Servo AE)
Manual Focus

AF Frame Face Detect, Center

Metering System Evaluative, Center-weighted average, Spot

Exposure Compensation

(Still Images) /

Exposure Shift (Movies) ± 2 stops in 1/3-stop increments

ISO Speed (Standard Output

Sensitivity, Recommended

Exposure Index) Auto, ISO 80/100/200/400/800/1600

White Balance Auto, Day Light, Cloudy, Tungsten, Fluorescent,
Fluorescent H, Custom

Shutter Speed 1 – 1/2500 sec.
15 – 1/2500 sec. (Total shutter speed range)

Aperture

Type Iris

f/number f/3.4 – f/8.0 (W), f/5.6 – f/8.0 (T)

Flash

Modes Auto, on, Slow Synchro, Off

Range 50 cm – 3.0 m (W), 1.0 m – 2.0 m (T)
(1.6 – 9.8 ft. (W), 3.3 – 6.6 ft. (T))

Shooting Modes.....	M, Av, Tv, P, Auto, Easy, Portrait, Landscape, Kids&Pets, SCN* ¹ , Movie* ² * ¹ Smart Shutter* ³ , Low Light, Super Vivid, Poster Effect, Color Accent, Color Swap, Fish-eye Effect, Miniature Effect, Beach, Foliage, Snow, Fireworks * ² Standard, Miniature Effect, Color Accent, Color Swap * ³ Smile, Wink Self-timer, Face Self-timer
Digital Zoom	Still images/Movies: Approx. 4x (up to approx. 48x in combination with the optical zoom) Safety Zoom, Digital tele-converter
Continuous Shooting	
Mode	Normal, AF, LV
Speed (Normal).....	Approx. 1.0 shots/sec. (In P mode) Approx. 3.0 shots/sec. (In Low Light mode)
Number of Shots (Approximate) (CIPA compliant)	Alkaline: Approx. 130 images NiMH: Approx. 370 images
Recording Media	SD memory card, SDHC memory card, SDXC memory card, MultiMediaCard, MMCplus card, HC MMCplus card
File Format	Design rule for Camera File system, DPOF (Version 1.1) compliant
Data Type	
Still Images.....	Exif 2.3 (JPEG)
Movies.....	MOV (Image data: H.264; Audio data: Linear PCM (stereo))
Number of Recording Pixels	
Still Images.....	Large: 4000 x 3000, Medium 1: 2816 x 2112, Medium 2: 1600 x 1200, Small: 640 x 480, Widescreen: 4000 x 2248 • Fixed to 1600 x 1200 when in Low Light mode
Movies.....	Standard, Color Accent, Color Swap: 1280 x 720 (30 fps*), 640 x 480 (30 fps*), 320 x 240 (30 fps*) Miniature Effect 1280 x 720 (Shooting: 6 fps/3 fps/1.5 fps, Playback 30 fps*), 640 x 480 (Shooting: 6 fps/3 fps/1.5 fps, Playback 30 fps*) * Actual frame rate is 29.97 fps
Interface.....	Hi-Speed USB Analog audio output (stereo) Analog video output (NTSC/PAL)
Direct Print Standard	PictBridge

Specifications

Power Source.....	AA alkaline batteries (AA NiMH batteries NB-3AH) x 2 AC Adapter Kit ACK800
Dimensions.....	113.3 x 73.2 x 45.8 mm (4.46 x 2.88 x 1.80 in.) • CIPA compliant
Weight (CIPA compliant).....	Approx. 308 g (10.9 oz.) (Including the battery and memory card) Approx. 260 g (9.17 oz.) (camera body only)

- All data is based on tests by Canon.
- Camera specifications or appearance are subject to change without notice.

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, motors or other devices that generate strong electromagnetic fields. Exposure to strong magnetic fields may cause malfunctions or corrupt image data.
- If water droplets or dirt become stuck on the camera or screen, 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 screen.
- Use a commercially available blower brush to remove dust from the lens. For stubborn dirt contact a Canon Customer Support Help Desk as listed on the customer support leaflet supplied with your camera.
- When you move the camera rapidly from cold to hot temperatures, condensation may form on the internal or external surfaces of the camera. To avoid condensation, put the camera in an airtight, resealable plastic bag and let it adjust to temperature changes slowly before removing it from the bag.
- If condensation has formed on the camera, stop using it immediately, as continued use may damage the camera. Remove the batteries and memory card, and wait until the moisture has completely evaporated before resuming use.

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MEMO



MEMO

MEMO



MEMO

MEMO

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