

Canon

PowerShot A480

Camera User Guide



ENGLISH

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

Checking the Package Contents

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



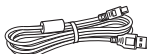
Camera



AA-size Alkaline
Batteries (x2)



Memory Card



Interface Cable
IFC-400PCU



AV Cable
AVC-DC300



Wrist Strap
WS-800



Getting Started



DIGITAL CAMERA
Solution Disk



Warranty
Card



"Canon Customer
Support" Leaflet



Also refer to the PDF manuals on the CD-ROM.

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

- **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 and print.

- **Software Starter Guide**

Read when you want to connect the camera to a computer. Explains how to install and use the software on the DIGITAL CAMERA Solution Disk.

Download ZoomBrowser EX/ImageBrowser Software Guide (PDF)
from:

<http://web.canon.jp/imaging/information-e.htm>



- You can use the included memory card to try out your new camera and take some test shots.
- Adobe Reader is required to view the PDF manuals.

Read This First

Test Shots

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

Warning Against Copyright Infringement

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

Warranty Limitations

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

LCD Monitor

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

Camera Body Temperature

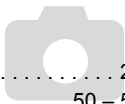
Please take care when operating the camera for an extended period as the camera body may become warm. This is not a malfunction.

Memory Cards

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

What Do You Want to Do?

Shoot



- Shoot, leaving it to the camera to make settings 20
- Shoot to match special conditions. 50 – 52

Take good people shots



Portraits
(p. 50)



With nightscapes
(p. 50)



Kids and pets
(p. 50)



At the beach
(p. 51)



With snowscapes
(p. 52)

Take good landscapes



Sunsets
(p. 51)



Foliage
(p. 52)

Shoot various other scenes



Indoors
(p. 51)



Fireworks
(p. 51)

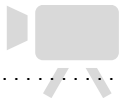


Aquarium
(p. 51)

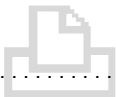
- Focus on faces 20, 74
- Shoot in places where I cannot use the flash
(turn off the flash) 53
- Shoot pictures with me in them too (self-timer). 57
- Insert the date and time into my shots 56
- Take close-up pictures of subjects (macro shooting) 61
- Shooting Close-ups (super macro shooting) 62
- Take sepia toned or black and white pictures 69
- Change the size of picture I want to take (recording pixels) 64
- Take pictures continuously 66
- Shoot without the effects of camera shake even in low light
conditions (High ISO Auto) 67

View

- Look at my pictures 23
- Automatically play back pictures (slideshow) 88
- Look at my pictures on a TV 91
- Quickly search pictures 86, 87
- Erase pictures 24, 93
- Protect pictures from accidental erasure 92

Shoot/View Movies

- Shoot movies 27
- View movies 29

Print

- Easily print pictures 25

Save

- Save images to a computer 30

Other

- Turn off sounds 45
- Use the camera abroad 36

Table of Contents

Chapters 1 – 3 explain the basic operations and frequently used functions of this camera. Chapters 4 onward explain the advanced functions, letting you learn more as you read each chapter.

Checking the Package Contents	2
Read This First	3
What Do You Want to Do?	4
Safety Precautions.....	8

1 Getting Started 11

Inserting the Batteries and Memory Card	12
Setting the Date and Time	16
Setting the Display Language.....	18
Pressing the Shutter Button.....	19
Taking Pictures.....	20
Viewing Images.....	23
Erasing Images.....	24
Printing Images.....	25
Shooting Movies	27
Viewing Movies.....	29
Transferring Images to a Computer	30
Accessories	34
Separately Sold Accessories	36

2 Learning More.....37

Components Guide.....	38
Power Saving Function (Auto Power Down).....	39
Indicator	39
Information Displayed on the Screen	40
FUNC. Menu – Basic Operations	43
MENU Menu – Basic Operations	44
Changing the Sound Settings.....	45



Returning the Camera to Default Settings	46
Formatting Memory Cards	47
Changing the Image Display Time ..	48

3 Shooting in Special Conditions and Commonly Used Functions..... 49




SCN Shooting in Special Conditions	50
Turning the Flash Off.....	53
Zooming in More Closely on Subjects (Digital Zoom).....	54
Inserting the Date and Time.....	56
Using the Self-Timer.....	57

4 Selecting Settings Yourself 59

P Shooting in Program AE	60
Turning the Flash On.....	61
Shooting Close-ups (Macro).....	61
Shooting Close-ups (Super Macro Shooting).....	62
Shooting Far Away Subjects (Infinity)	63
Changing the Recording Pixels (Image Size).....	64
Changing the Image Quality (Compression Ratio)	64
Adjusting the Brightness (Exposure Compensation)	66
Continuous Shooting	66
ISO Changing the ISO Speed	67
Adjusting the White Balance	68

Changing the Tone of an Image (My Colors)	69
Shooting Using a TV Monitor	70
 Shooting Using the Two Second Self-Timer	70
 Customizing the Self-Timer	71
Changing the Composition with the Focus Lock	72





5 Getting More Out of Your Camera 73







Changing the AF Frame Mode	74
AFL Shooting with the AF Lock	75
Magnifying the Focal Point	76
Changing the Metering Mode	77
AEL Shooting with the AE Lock	77
FEL Shooting with the FE Lock	78
 Shooting with Slow Synchro	78
 Red-Eye Correction	79
 Shooting Long Exposures	80

6 Using Various Functions for Shooting Movies 81

Changing the Image Quality	82
AE Lock/Exposure Shift	83
Other Shooting Functions	83
Playback Functions	84

7 Using Playback and Other Functions 85

 Searching Images by Sets of 9 (Index Display)	86
 Searching for Images Using the Jump Display	87
 Viewing Slideshows	88
Checking the Focus	89
 Magnifying Images	90

 Changing Image Transitions	90
Viewing Images on a TV	91
 Protecting Images	92
 Erasing All Images	93
 Rotating Images	93
 Resizing Images	94
 Correcting the Red-Eye Effect	95
Selecting Images for Printing (DPOF)	96

8 Customizing the Camera 99

Changing Functions	100
Changing Shooting Functions	103
Changing Playback Functions	105

9 Useful Information 107

Replacing the Date/Time	
Battery	108
Using Household Power	109
Handling Precautions	110
Troubleshooting	111
List of Messages that Appear on the Screen	114
Functions Available in Each Shooting Mode	116
Menus	118
Specifications	122
Index	124

Safety Precautions

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



Warning Denotes the possibility of serious injury or death.



Caution Denotes the possibility of injury.

Caution Denotes the possibility of damage to the equipment.



Warning

Camera

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

Battery

- **Use only recommended batteries.**
- **Do not place the batteries near or in direct flame.**
- **Do not let the batteries come into contact with water (e.g. sea water) or other liquids.**
- **Do not attempt to disassemble, alter or apply heat to the batteries.**
- **Avoid dropping or subjecting the batteries to severe impacts.**
This may cause explosions or leaks, resulting in fire, injury and damage to the surroundings. In the event that a battery leaks and the eyes, mouth, skin or clothing contacts these substances, immediately flush with water and seek medical assistance.

Other Warnings

- **Do not play the supplied CD-ROM(s) in any CD player that does not support data CD-ROMs.**
Playing the CD-ROM(s) in an audio CD player (music player) could damage the speakers. It is also possible to suffer hearing loss from listening with headphones to the loud sounds of a CD-ROM played on a music CD player.



Caution

- **Be careful not to bang the camera or subject it to strong impacts or shocks when hanging it by the strap.**
- **Be careful not to bump or push strongly on the lens.**
This could damage the camera or lead to injury.
- **Avoid using, placing or storing the camera in the following places.**
 - Places subject to strong sunlight.
 - Places subject to temperatures above 40 °C (104 °F).
 - Humid or dusty areas.

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

Caution

- **Do not aim the camera at bright light sources (the sun, etc.).**
Doing so may cause malfunctions or damage the image sensor.
- **When using the camera on a beach or at a windy location, be careful not to allow dust or sand to enter the camera.**

Safety Precautions

- **Do not use the flash with dirt, dust or other items stuck to the surface, or if it is covered by your fingers or clothing.**
This may cause the camera to malfunction.

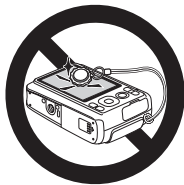
- **Remove and store the batteries when you are not using the camera.**
If the batteries are left inside the camera, damage caused by leakage may occur.

- **Before you discard batteries, cover the terminals with tape or other insulators.**
Contacting other metal materials in waste containers may lead to fire or explosions.

- **Do not sit in a chair with the camera in your pocket.**
Doing so may cause malfunctions or damage the LCD monitor.

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

- **Do not attach accessories to the strap.**
Doing so may cause malfunctions or damage the LCD monitor.

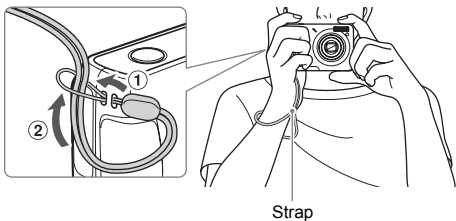


Getting Started

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

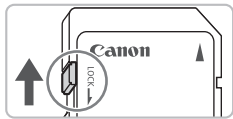
Attaching the Strap/Holding the Camera

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



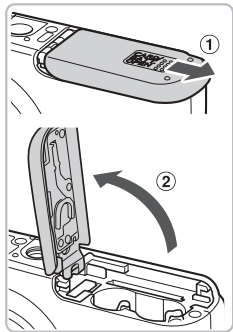
Inserting the Batteries and Memory Card

Insert the included batteries and memory card into the camera.



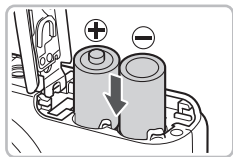
1 Check the card's write-protect tab.

- 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.



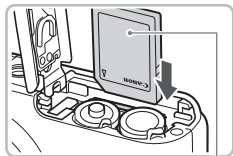
2 Open the cover.

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



3 Insert the batteries.

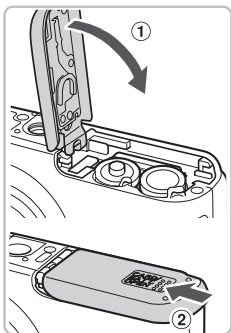
- Insert the batteries with (+) and (-) ends oriented correctly.



Label

4 Insert the memory card.

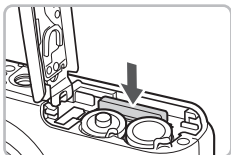
- Insert the memory card as shown until it locks into place with a click.
- Be sure the memory card is oriented correctly. Inserting the memory card in the wrong direction could damage the camera.



5 Close the cover.

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

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*	200	470
Playback Time (Hours)	8	10

* The number of shots that can be taken is based on the Camera & Imaging Products Association (CIPA) measurement standard.

- Under some shooting conditions, fewer shots can be taken.
- 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-size alkaline batteries and Canon AA-size NiMH batteries (sold separately) (pp. 34, 36).



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 display.

Display	Summary
	Battery charge is low. Prepare new batteries to continue using the camera.
"Change the batteries"	The batteries are depleted. Insert new batteries.

Approximate Number of Shots per Memory Card

Memory Card	128 MB	2 GB	8 GB
Number of Shots	47	749	2994

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


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

You can check the number of shots that can be taken when the camera is in a Shooting Mode (p. 20).



Number of shots that can be taken

Compatible Memory Cards

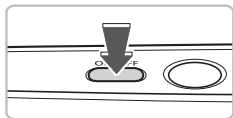
- SD memory cards
- SDHC memory cards 
- MultiMediaCards
- MMCplus memory cards
- HC MMCplus memory cards

? What is the write-protect tab?

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

Setting the Date and Time

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



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 select an option.
- Press the ▲▼ buttons to set a value.



3 Make the setting.

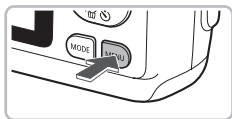
- Press the  button.
- ▶ Once the date and time have been set, the Date/Time screen will close.
- Pressing the power button will turn off the camera.

? Reappearing Date/Time screen

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

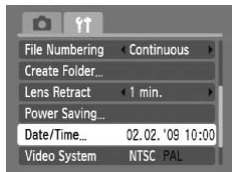
Changing the Date and Time

You can change the current date and time settings.







1 Display the menus.

- Press the **MENU** button.



2 Select [Date/Time] in the tab.

- Press the  buttons to select the  tab.
- Press the  buttons to select [Date/Time], then press the  button.



3 Change the date and time.

- Follow Steps 2 and 3 on p. 16 to adjust the setting.
- To close the menus, press the **MENU** button.



Date/Time battery

If [Date/Time] appear even when the date/time have been correctly set, insert a new date/time battery (p. 108).

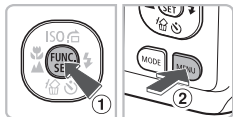
Setting the Display Language

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



1 Set the playback mode.

- Press the  button.








2 Display the settings screen.



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



3 Set the display language.

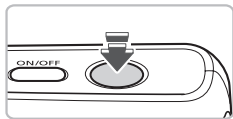
- Press the     buttons to select a language, then press the  button.
- ▶ Once the display language has been set, the language menu will close.



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

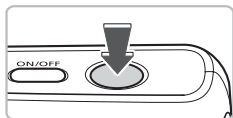
Pressing the Shutter Button

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



1 Press halfway (lightly to the first stop).

- ▶ The camera automatically makes the necessary settings for shooting, such as focusing and setting the brightness.
- ▶ When the camera focuses, it will beep twice.



2 Press fully (to the second stop).

- ▶ The camera plays the shutter sound and takes the shot.

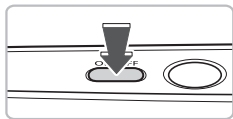


If you just press the shutter button fully without pausing halfway, the image may not be in focus.

AUTO Taking Pictures

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

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



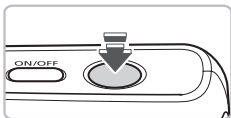
2 Select the AUTO mode.

- Press the **MODE** button, then press the **◀▶** buttons to select **AUTO**.
- Press the **FUNC SET** button.
- ▶ When faces are detected, a white frame appears on the face the camera judges to be the main subject, while gray frames appear on other detected faces.



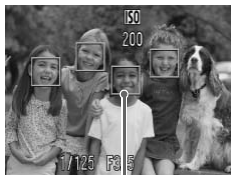
3 Compose the shot.

- Pressing the zoom button toward **🔍** will zoom in on your subject, making it appear larger. Pressing the zoom button toward **🔍-** will zoom out from your subject, making it appear smaller.

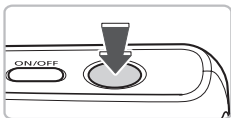


4 Focus.

- Press the shutter button halfway to focus.
- ▶ When the camera focuses, it will beep twice.
- ▶ Green AF frames appear where the subject is in focus.
- ▶ Several AF frames will appear when the camera focuses on more than one point.



AF Frames



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.
- ▶ The indicator will blink green while the image is recorded to the memory card.
- ▶ The image will appear for about two seconds.
- You can take a second picture even while an image is displayed by pressing the shutter button.



What if...

- **The camera does not play any sounds?**

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

- **The image comes out dark even if the flash fired when shooting?**

Your subject is too far away. When the camera is at maximum wide angle, move about 30 cm – 3.0 m (12 in. – 9.8 ft.) away from your subject and shoot. Move about 30 cm – 2.0 m (12 in. – 6.6 ft.) or more away when the camera is at maximum telephoto.

- **The camera beeps once when the shutter button is pressed halfway?**

Your subject is too close. When the camera is at maximum wide angle, move about 4 cm (1.6 in.) or more away from your subject and shoot. Move about 25 cm (9.8 in.) or more away when the camera is at maximum telephoto.

- **The lamp lights when the shutter button is pressed halfway.**


To reduce red-eye and to assist in focusing, the lamp may light when shooting in dark areas.

Viewing Images

You can view your images on the screen.








1 Select the playback mode.

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




2 Select an image.

- Pressing the  button will cycle through the images in reverse order.
- Pressing the  button will cycle through the images in the order they were taken.
- The images change more quickly if you keep the  buttons pressed, but they will appear coarse.
- Pressing the  button while the lens is extended will cause the shooting screen to reappear.
- The lens will retract after approximately 1 minute elapses. If you press the  button with the lens retracted, the power will turn off.



Switching to and from playback mode

Pressing the  button while the camera is off turns the camera on in playback mode. Pressing it again turns the camera off. Pressing the shutter button halfway while in playback mode, or pressing the **MODE** button will switch the camera to shooting mode.

Erasing Images

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



1 Select the playback mode.

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



2 Select an image to erase.

- Press the buttons to select an image.



3 Erase the image.

- Press the button.
- ▶ [Erase?] appears.
- Press the buttons to select [Erase], then press the button.
- ▶ The displayed image will be erased.
- To exit instead of erasing, press the buttons to select [Cancel], then press the button.

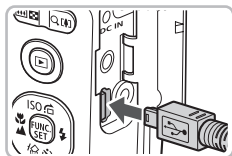


Printing Images

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

Items to Prepare

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



1 Turn off the camera and printer.



2 Connect the camera to the printer.

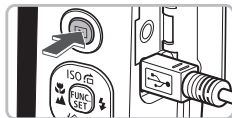
- Open the cover, and insert the small end of the plug firmly into the camera terminal in the direction shown.
- Insert the cable's larger plug into the printer. For connection details, refer to the user guide provided with the printer.



3 Turn on the printer.

4 Turn on the camera.

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







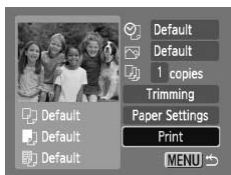
5 Select an image to print.

- Press the ◀▶ buttons to select an image.



6 Print images.

- Press the  button.
- Press the ▲▼ buttons to select [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 the best ways to print.

Canon-Brand PictBridge Compliant Printers (Sold Separately)

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



Compact Photo Printers
(SELPHY series)

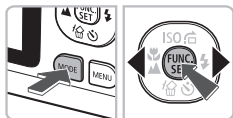


Inkjet Printers
(PIXMA series)

For more information, visit your nearest Canon retailer.

Shooting Movies

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



1 Select the mode.



- Press the **MODE** button and press the  buttons to select .
- Press the  button.

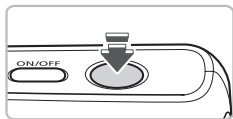


Shooting Time



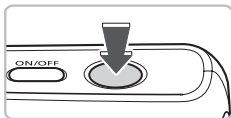
2 Compose the shot.

- Pressing the zoom button toward  will zoom in on your subject, making it appear larger. Pressing the zoom button toward  will zoom out from your subject, making it appear smaller.

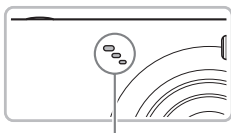


3 Focus.

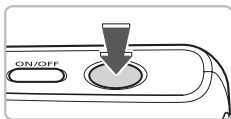
- Press the shutter button halfway to focus.
- ▶ When the camera focuses, it will beep twice.



Elapsed Time



Microphone



4 Shoot.

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

5 Stop shooting.

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

Estimated Shooting Times

Memory Card	128 MB	2 GB	8 GB
Shooting Time	1 min. 4 sec.	16 min. 47 sec.	1 hr. 7 min. 6 sec.

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

Viewing Movies

You can view your movies on the screen.



1 Select the playback mode.

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



2 Select a movie.

- Press the buttons to select a movie to play, then press the button.
- ▶ The movie control panel will appear.



3 Play the movie.

- Press the buttons to select , then press the button.
- ▶ The movie will play.
- You can pause/resume the movie by pressing the button again.
- Press the / buttons to adjust the volume.
- After the movie finishes, appears.



Transferring Images to a Computer

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

System Requirements

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

Windows

OS	Windows Vista (including Service Pack 1) Windows XP Service Pack 2, Service Pack 3
Computer model	The above OS should be pre-installed on computers with built-in USB ports.
CPU	Pentium 1.3 GHz or higher
RAM	Windows Vista: 1 GB or more Windows XP: 512 MB or more
Interface	USB
Free Hard Disk Space	Canon Utilities <ul style="list-style-type: none">• ZoomBrowser EX: 200 MB or more• PhotoStitch: 40 MB or more
Display	1,024 x 768 pixels or higher

Macintosh

OS	Mac OS X (v10.4 – v10.5)
Computer model	The above OS should be pre-installed on computers with built-in USB ports.
CPU	PowerPC G4/G5 or Intel Processor
RAM	512 MB or more
Interface	USB
Free Hard Disk Space	Canon Utilities <ul style="list-style-type: none">• ImageBrowser: 300 MB or more• PhotoStitch: 50 MB or more
Display	1,024 x 768 pixels or higher

Items to Prepare

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

Preparations

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

1 Install the software.

Windows



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

- 2 Begin installation.

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




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

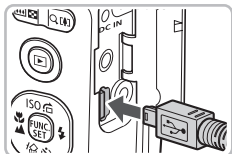
- 4 Remove the CD-ROM.

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

Macintosh



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




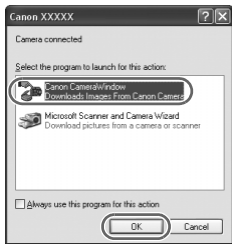
2 Connect the camera to the computer.

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



3 Turn on the camera.

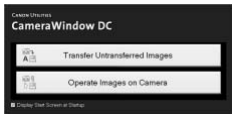
- Press the  button to turn on the camera.



4 Open CameraWindow.

Windows

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

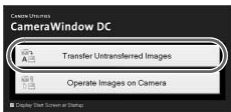




Macintosh

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

Transfer Images



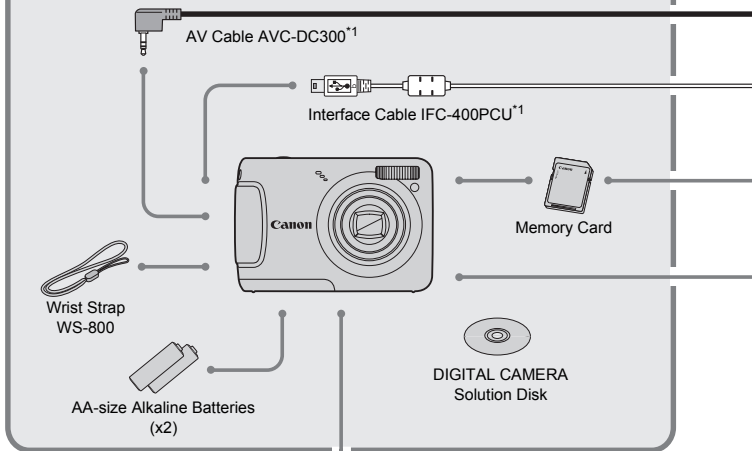
- Click [Transfer Untransferred Images].
- ▶ All images not previously transferred will transfer to the computer.
- After the transfer finishes, turn off the camera and unplug the cable.
- For further operations, refer to the *Software Starter Guide*.



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

Accessories

Supplied with Camera

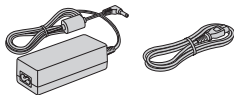


Battery and Charger Kit CBK4-300*³



Battery Charger CB-5AH
AA-size NiMH batteries
(NB-3AH x4)

AC Adapter Kit ACK800

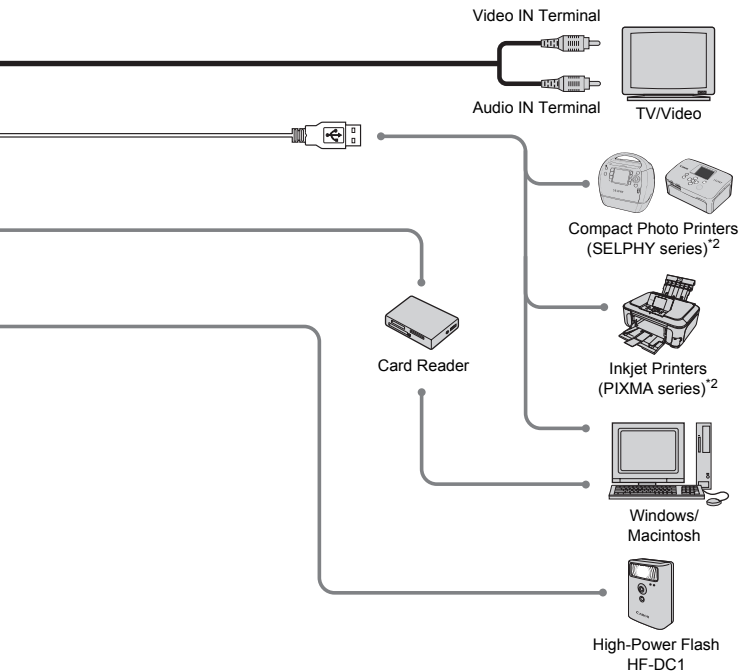


Compact Power Adapter CA-PS800
Power Cord

*1 Also available for purchase separately.

*2 See the user guide supplied with the printer for more information on the printer and interface cables.

*3 Battery and Charger Kit CBK4-200 may also be used.

**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.

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

- **Battery and Charger Kit CBK4-300**

This kit includes both a dedicated charger unit and four rechargeable AA-size NiMH (nickel metal hydride) batteries. Recommended for powering the camera for an extended period of time.

- **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. Cannot be used to charge the batteries inside the camera.



The battery charger can also be used when abroad.

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

Other Accessories

- **High-Power Flash HF-DC1**

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

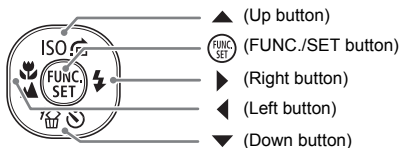
2

Learning More

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

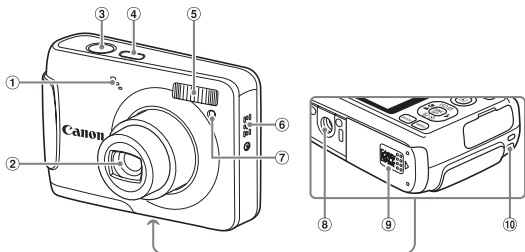
Conventions Used in this Guide

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

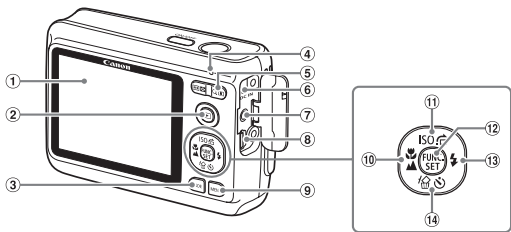


- : Troubleshooting tips.
- : Hints for getting more out of your camera.
- : Things you should be careful about.
- : Supplemental information.
- (p. xx): Reference pages. “xx” stands for page number.
- This chapter assumes all functions are at their default settings.

Components Guide



- ① Microphone (p. 28)
- ② Lens
- ③ Shutter Button (p. 19)
- ④ Power Button (p. 20)
- ⑤ Flash (p. 53)
- ⑥ Speaker
- ⑦ Lamp (AF Assist Beam (p. 103) / Red-Eye Reduction Lamp (p. 103) / Self-Timer Lamp (pp. 57, 71))
- ⑧ Tripod Socket
- ⑨ Memory Card / Battery Cover (p. 12)
- ⑩ Strap Mount (p. 11)



- ① Screen (LCD Monitor) (p. 40)
- ② (Playback) Button (p. 23)
- ③ **MODE** Button
- ④ Indicator (p. 39)
- ⑤ Zoom Button
Shooting: (Telephoto) / (Wide Angle) (p. 20)
Playback: (Magnify) (p. 90) / (Index) (p. 86)
- ⑥ DC IN (Power Input) Terminal (p. 109)
- ⑦ A/V OUT (Audio/Video Output) Terminal (pp. 25, 32, 91)
- ⑧ **DIGITAL** Terminal
- ⑨ **MENU** Button (p. 44)
- ⑩ (Macro) (p. 61) / (Infinity) (p. 63) / Button
- ⑪ ISO Speed (p. 67) / (Jump) (p. 87) / Button
- ⑫ **FUNC./SET** (Function/Set) Button (p. 43)
- ⑬ (Flash) (pp. 53, 61) / Button
- ⑭ (Self-Timer) (p. 57) / (1 Erase Image) (p. 24) / Button

Power Saving Function (Auto Power Down)

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

Power Saving during Shooting

The monitor will turn off approximately 1 minute after the camera is last operated. After about 2 more minutes, the lens will retract and the power will turn off.

When the monitor has turned off but the lens has not retracted yet, pressing the shutter button halfway (p. 19) turns on the monitor and shooting can continue.

Power Saving during Playback

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



- You can turn off the Power Saving Function (p. 100).
- You can adjust the time before the monitor turns off (p. 100).

Indicator

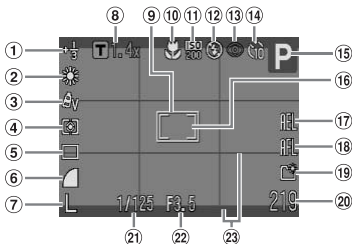
The indicator on the back of the camera (p. 38) will light or blink green when images are being recorded to/read from the memory card, or during any kind of transfer (p. 21).



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.


Information Displayed on the Screen

Shooting (Information Display)



- | | | |
|----------------------------------------------------------------------|-----------------------------------|---------------------------------------------|
| ① Exposure Compensation (p. 66) | ⑨ AF Frame (p. 21) | ⑰ AE Lock, FE Lock (pp. 77, 78, 83) |
| ② White Balance (p. 68) | ⑩ Macro (p. 61), Infinity (p. 63) | ⑱ AF Lock (p. 75) |
| ③ My Colors (p. 69) | ⑪ ISO Speed (p. 67) | ⑲ Create Folder (p. 101) |
| ④ Metering Modes (p. 77) | ⑫ Flash Mode (pp. 53, 61, 78) | ⑳ Still Images: Recordable shots (p. 15) |
| ⑤ Drive Mode (p. 66) | ⑬ Red-Eye Correction (p. 79) | Movies: Remaining Time/Elapsed Time (p. 28) |
| ⑥ Image Quality (Compression) (p. 64) | ⑭ Self Timer (pp. 57, 70, 71) | ㉑ Shutter Speed |
| ⑦ Recording Pixels (p. 64) | ⑮ Shooting Mode | ㉒ Aperture Value |
| ⑧ Digital Zoom Magnification (p. 54), Digital Tele-Converter (p. 55) | ⑯ Spot AE Point Frame (p. 77) | ㉓ Disp. Overlay (p. 104) |

Switching the Display

You can change the display by pressing the **MENU** button, selecting the  tab, and [Shooting Info].



[Off]

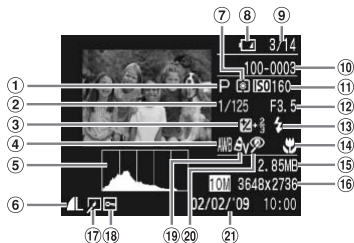
No Information Display



[On]

Information Display

Playback (Detailed Information Display)



- | | | |
|-----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------|
| ① Shooting Mode | ⑨ Displayed image number / Total number of images | ⑯ Still Images: Recording Pixels (p. 65)
Movies: Movie Length (p. 82) |
| ② Shutter Speed | ⑩ Folder Number – File Number (p. 101) | ⑰ Image Editing (pp. 94 – 95) |
| ③ Exposure Compensation (p. 66) | ⑪ ISO Speed (p. 67) | ⑱ Protect (p. 92) |
| ④ White Balance (p. 68) | ⑫ Aperture Value, Image Quality (Movies) | ⑲ My Colors (p. 69) |
| ⑤ Histogram (p. 42) | ⑬ Flash Sync (pp. 61, 78) | ⑳ Red-Eye Correction (pp. 79, 95) |
| ⑥ Image Quality (Compression) (p. 64), AVI (Movies) | ⑭ Macro (p. 61), Infinity (p. 63) | ㉑ Shooting Date and Time (p. 56) |
| ⑦ Metering Modes (p. 77) | ⑮ File Size (pp. 64, 82) | |
| ⑧ Battery Charge Indicator (p. 14) | | |

Switching the Display

You can change the display by pressing the **MENU** button, selecting the **▶** tab, and [Review Info].



[Off]
No Information Display



[Standard]
Simple Information Display



[Detailed]
Detailed Information Display



[Focus Check]
Focus Check Display (p. 89)



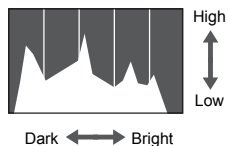
Display in Dark Conditions during Shooting

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

Overexposure Warning during Playback

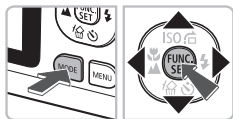
In “Detailed Information Display” (p. 41), overexposed areas of the image flash on the screen.

Histogram during Playback



- The graph that appears in “Detailed Information Display” (p. 41) is called the histogram. The histogram shows the distribution and amount of brightness of an image. When the graph approaches the right side, the image is bright, but when it approaches the left side, the image is dark, and in this way you can judge the exposure.

Commonly used shooting functions can be set with the FUNC. menu. The menu items and options differ depending on the mode (p. 116).



1 Select a shooting mode.

- Press the **MODE** button and the ▲▼◀▶ buttons to select the desired shooting mode.
- Press the button.



2 Display the FUNC. menu.

- Press the button.



3 Select a menu item.

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

Menu Items

Selectable Options

4 Select an option.

- Press the ◀▶ buttons to select an option.
- You can also select settings by pressing the **MENU** button on options that display .



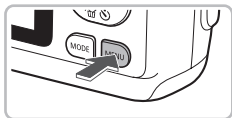
5 Make the setting.

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



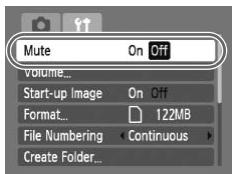
MENU Menu – Basic Operations

Various functions can be set from the menus. The menu items are organized under tabs, such as for shooting (📷) and playback (▶). The menu items differ depending on the mode (pp. 118 – 121).



1 Display the menu.

- Press the **MENU** button.

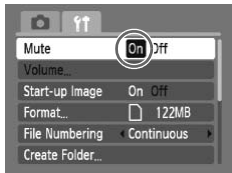


2 Select a tab.

- Press the ◀▶ buttons or press the zoom button (p. 38) to select a tab.

3 Select a menu item.

- Press the ▲▼ buttons to select a menu item.
- Some items require you to press the **FUNC SET** button to display a submenu in which you change the setting.

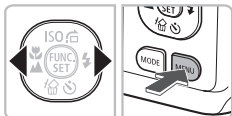


4 Select an option.

- Press the ◀▶ buttons to select an option.

5 Make the setting.

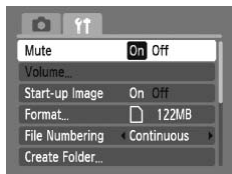
- Press the **MENU** button.
- ▶ The standard screen will reappear.



Changing the Sound Settings

You can silence or adjust the volume of camera sounds.

Muting Sounds

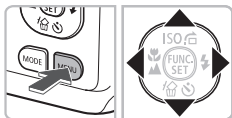


1 Display the menu.

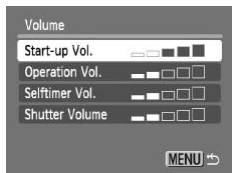
- Press the **MENU** button.

2 Select [Mute].

- Press the **◀▶** buttons to select the **↑↑** tab.
- Press the **▲▼** buttons to select [Mute], then use the **◀▶** buttons to select [On].



Adjusting the Volume



1 Display the menu.

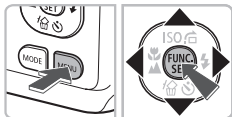
- Press the **MENU** button.

2 Select [Volume].

- Press the **◀▶** buttons to select the **↑↑** tab.
- Press the **▲▼** buttons to select [Volume], then press the **FUNC. SET** button.

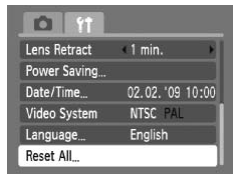
3 Change the volume.

- Press the **▲▼** buttons to select an item, then use the **◀▶** buttons to adjust the volume.



Returning the Camera to Default Settings

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

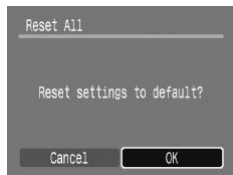
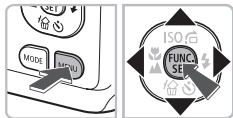


1 Display the menu.

- Press the **MENU** button.

2 Select [Reset All].

- Press the **◀▶** buttons to select the **☰** tab.
- Press the **▲▼** buttons to select [Reset All], then press the **FUNC SET** button.



3 Reset the settings.

- Press the **◀▶** buttons to select [OK], then press the **FUNC SET** button.
- ▶ The camera will reset to the default settings.

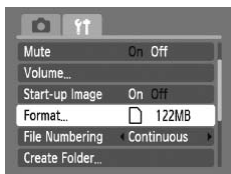


Are there functions that cannot be reset?

- The [Date/Time] (p. 16) in the **☰** tab, [Language] (p. 18), [Video System] (p. 91).
- The saved data for custom white balance (p. 68).

Formatting Memory Cards

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

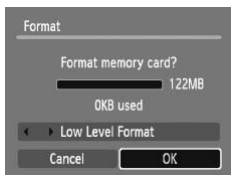
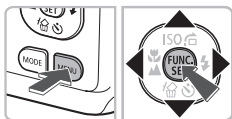


1 Display the menu.

- Press the **MENU** button.

2 Select [Format].

- Press the **◀▶** buttons to select the **↑↓** tab.
- Press the **▲▼** buttons to select [Format], then press the **FUNC SET** button.

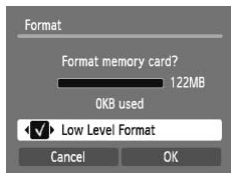


3 Format the memory card.

- Press the **◀▶** buttons to select [OK], then press the **FUNC SET** button.
- ▶ The memory card will be formatted.
- ▶ When formatting has finished, the menu screen will reappear.

Low Level Format

Perform low level formatting when you think that the recording/reading speed of a memory card has dropped.



- Follow Steps 1 – 2 above to display the [Format] screen.
- Press the **▲▼** buttons to select [Low Level Format], then use the **◀▶** buttons to display ✓.
- Press the **▲▼◀▶** buttons to select [OK], then press the **FUNC SET** button.
- ▶ Low level formatting starts.

? About formatting

- The supplied memory card has already been formatted.
- When the [Memory card error] message appears, or when the camera does not work correctly, formatting the memory card may solve the problem. Copy the images from the memory card to a computer or other device before formatting.



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

Changing the Image Display Time


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

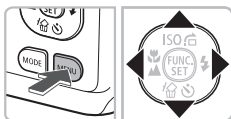
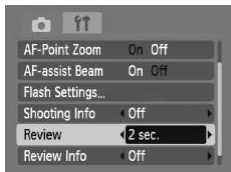
1 Press the MODE button and select AUTO (p. 20).

2 Display the menu.

- Press the MENU button.

3 Select [Review].

- Press the ◀▶ buttons to select the  tab.
- Press the ▲▼ buttons to select [Review], then press the ◀▶ buttons to select the display time.
- If you select [Off], the image will not display.
- If you select [Hold], the image displays until you press the shutter button halfway.



3

Shooting in Special Conditions and Commonly Used Functions

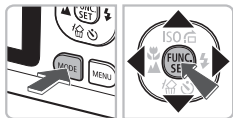
This chapter explains how to shoot in different conditions, as well as how to use other common functions, such as the flash and self-timer.



- When you select a mode for a specific scene the camera will automatically select any necessary settings. All you need do is press the shutter button to take an optimized picture.
- This chapter assumes the **AUTO** mode is set for “☑ Turning the Flash Off” (p. 53) to “🕒 Using the Self-Timer” (p. 57). When shooting in a **SCN** mode, check which functions are available in that mode (pp. 116 – 119).

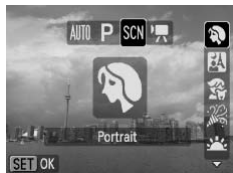
SCN Shooting in Special Conditions

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



1 Select a shooting mode.

- Press the **MODE** button.
- Press the **◀▶** buttons to select **SCN**, then use the **▲▼** buttons to select the type of scene you want to shoot.
- Press the **FUNC SET** button.



2 Shoot.



Take portraits (Portrait)

- Produces a soft effect when photographing people.



Take snapshots at night (Night Snapshot)

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



Take shots of kids and pets (Kids&Pets)

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



Take indoor shots (Indoor)

- Lets you shoot indoors with natural colors.



Shoot sunsets (Sunset)

- Lets you take shots of sunsets in vivid colors.



Take shots of fireworks (Fireworks)

- Lets you take shots of fireworks in vivid colors.



Take shots of people at the beach (Beach)

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



Take shots of aquatic life in an aquarium (Aquarium)

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



Take shots of foliage (Foliage)






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



Take shots of people in snow (Snow)

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



- In , ,  or  mode, images may appear coarse because the ISO speed (p. 67) is increased to match the shooting conditions.
- In  mode, attach the camera to a tripod to prevent the camera from moving and blurring the image.

Turning the Flash Off







You can shoot with the flash turned off.



1 Press the  button.




2 Select .

- Press the   buttons to select , then press the  button.
- ▶  will appear.
- Follow the steps above to return the setting to .



What if a flashing appears?


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

Zooming in More Closely on Subjects (Digital Zoom)

You can use the digital zoom to zoom up to a maximum of 13x and capture subjects that are too far away for the optical zoom (p. 20) to enlarge. The images may appear coarse, however, depending on the recording pixel setting (p. 64) and the zoom factor used.



1 Press the zoom button toward .

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





2 Press the zoom button toward again.

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

Zoom Factors at which Images Deteriorate

Recording Pixels	Optical Zoom	Digital Zoom
L	3.3x →	
M1	3.3x →	
M2		4.6x →
M3		7.5x →
S		13x →

 : No image deterioration (zoom factor appears white)

 : Image deterioration (zoom factor appears blue)

→ : Maximum zoom factor without deterioration (Safety Zoom)



Turning off the digital zoom

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

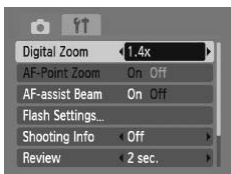


The focal length when using digital zoom is 37 – 488 mm (35mm film equivalent).

T Digital Tele-Converter

The focal length of the lens can be increased by an equivalent of 1.4x or 2.3x. This enables a faster shutter speed and less chance of camera shake than the zoom (including digital zoom) used by itself at the same zoom factor.

The images may appear coarse, however, depending on the combination of recording pixel (p. 64) and digital tele-converter settings used.

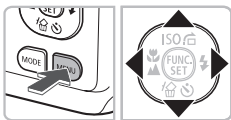


1 Select [Digital Zoom].

- Press the **MENU** button.
- Press the **◀▶** buttons to select the tab, then use the **▲▼** buttons to select [Digital Zoom].

2 Accept the setting.

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



Combinations that Cause Image Deterioration

- Using [1.4x] at a recording pixel setting of **L** or **M1** will cause image deterioration (**T** and the zoom factor will display in blue).
- Using [2.3x] at a recording pixel setting of **L**, **M1** or **M2** will cause image deterioration (**T** and the zoom factor will display in blue).



- The respective focal lengths when using [1.4x] and [2.3x] are 51.8 – 171 mm and 85.1 – 281 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. 16).



1 Select the recording pixels.

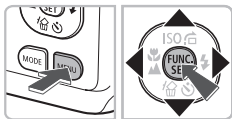
- After pressing the **FUNC SET** button, press the **▲▼** buttons to select **L**.

2 Select .

- Press the **◀▶** buttons to select .

3 Select an option.

- After pressing the **MENU** button, press the **◀▶** buttons to select [Date] or [Date & Time], then press the **FUNC SET** button.



4 Shoot.

- The gray areas on the top and bottom of the screen will not be printed. Be sure your subject is within the printable area when you shoot.
- ▶ The date will be recorded in the lower right-hand corner of the image.
- To restore to the original setting, select **L** in Step 2.



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

- Use the **DPOF print settings (p. 96)** to print.
- Use the included software to print.
Refer to the *Software Starter Guide* for details.
- **Connect the camera to a printer to print.**
Refer to the *Personal Printing Guide* for details.



- Images shot in are shot with a small number of recording pixels. Therefore, printing on paper larger than postcard or 3.5" x 5" size will result in rough photo prints (p. 65).
- The gray areas on the top and bottom of the screen will not be printed; however, the entire image displayed will be recorded.

Using the Self-Timer




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

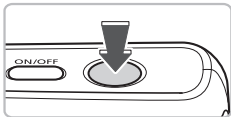


1 Press the ▼ button.




2 Select .

- Press the ▲▼ buttons to select , then press the  button.
- ▶ Once set,  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 restore the original setting, select  in Step 2.



You can change the delay time and number of shots taken (p. 71).



4

Selecting Settings Yourself

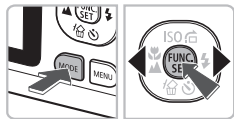
In this chapter you will learn how to use the various functions in **P** mode to progressively advance your shooting skills.





- This chapter assumes that **P** mode has been selected by pressing the **MODE** button, then the ◀▶ buttons.
- **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. 116 – 119).

P Shooting in Program AE

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



1 Select the **P** mode.

- After pressing the **MODE** button, press the  buttons to select **P**, then press the  button.



2 Adjust the settings according to your purposes (pp. 61 – 71).

3 Shoot.





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

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






- Turn on the flash (p. 61)
- Select a higher ISO speed (p. 67)

⚡ Turning the Flash On



You can make the flash fire every time you shoot. The possible flash range is approximately 30 cm – 3.0 m (12 in. – 9.8 ft.) at maximum wide angle, when the zoom button is pushed toward , and approximately 30 cm – 2.0 m (12 in. – 6.6 ft.) at maximum telephoto, when the zoom button is pushed toward .



Select ⚡.






- After pressing the  button, press the  buttons to select , then press the  button.
- ▶ Once set,  will appear.

🌸 Shooting Close-ups (Macro)


You can shoot an object at a close distance or even shoot extreme close-ups of it. The possible shooting range is approximately 3 – 50 cm (1.2 in. – 1.6 ft.) at maximum wide angle, when the zoom button is pushed toward , and approximately 25 – 50 cm (9.8 in. – 1.6 ft.) at maximum telephoto, when the zoom button is pushed toward .



Select 🌸.

- After pressing the  button, press the  buttons to select , then press the  button.
- ▶ Once set,  will appear.

💡 Using

You are recommended to attach the camera to a tripod and shoot in , to prevent the camera from moving and blurring the image (p. 70).



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

📷 Shooting Close-ups (Super Macro Shooting)

You can zoom in and shoot while close to the subject. The possible shooting range is approximately 1 – 10 cm (0.39 – 3.9 in.) from the end of the lens. Using the digital zoom will allow you to zoom in even more and shoot while close to the subject.

Using digital zoom may cause images to appear coarse at some recording pixel settings (p. 64).



1 Select 📷.

- Press the **MODE** button, then press the **◀▶** buttons to select **SCN**.
- Press the **▲▼** buttons to select 📷, then press the **FUNC/SET** button.
- ▶ The optical zoom will lock at the maximum wide angle.



2 Use the zoom button to compose the shot.

- ▶ The camera will zoom in and the zoom factor will appear.

Zoom Factors at which Images Deteriorate

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

💡 Using 📷


You are recommended to attach the camera to a tripod and shoot in 📷, to prevent the camera from moving and blurring the image (p. 70).

▲ Shooting Far Away Subjects (Infinity)

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

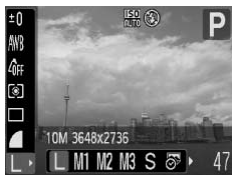


Select ▲.

- After pressing the ◀ button, press the ◀▶ buttons to select ▲, then press the  button.
- ▶ Once set, ▲ will appear.

Changing the Recording Pixels (Image Size)

You can select from six settings.





1 Select the recording pixels.

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

2 Select an option.

- Press the  buttons to select an option, then press the .
- ▶ The setting you selected will display on the screen.



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

Changing the Image Quality (Compression Ratio)

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

 (Fine),  (Normal).

















1 Select the image quality.

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

2 Select an option.

- Press the  buttons to select an option, then press the .
- ▶ The setting you selected will display on the screen.


Approximate Values for Recording Pixels and Image Quality

Recording Pixels	Image Quality	Single Image Data Size (Approx. KB)	Recordable Number of Images		
			128 MB	2 GB	8 GB
L (Large) 10 M/3648 x 2736		2565	47	749	2994
		1226	99	1536	6140
M1 (Medium 1) 6 M/2816 x 2112		1620	75	1181	4723
		780	156	2363	9446
M2 (Medium 2) 4 M/2272 x 1704		1116	109	1707	6822
		556	217	3235	12927
M3 (Medium 3) 2 M/1600 x 1200		558	217	3235	12927
		278	411	6146	24562
S (Small) 0.3 M/640 x 480		150	711	10245	40937
		84	1118	15368	61406
 (Date Stamp) 2 M/1600 x 1200		558	217	3235	12927
W (Widescreen) 3648 x 2048		1920	64	1007	4026
		918	132	2048	8187

* 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 when Selecting by Paper Size

A2	L
A3	
A4, Letter size	
5" x 7" Postcard size 3.5" x 5"	
M1	M1
M2	
M3	

- **S** Suitable for sending images as e-mail attachments.
-  is suitable for printing postcard or 3.5" x 5" size prints.
- **W** For printing on wide size paper.

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 Select the exposure compensation.

- After pressing the  button, press the   buttons to select ± 0 .

2 Correct the exposure.

- Press the   buttons to correct the exposure, then press the  button.
- ▶ The exposure compensation amount will display on the screen.

Continuous Shooting






You can shoot continuously at about 0.8 images/second.



1 Select the drive mode.

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

2 Select .

- Press the   buttons to select , then press the  button.
- ▶ Once set,  will appear.

3 Shoot.

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











- Cannot be used with the self-timer (pp. 57, 70, 71).
- For continuous shooting, the focus and exposure are locked when the shutter button is pressed halfway.
- As the number of images increases, the shooting intervals may take longer.
- If the flash fires, shooting intervals may take longer.

ISO Changing the ISO Speed



Select the ISO speed.

- After pressing the ▲ button, press the ▲▼ buttons to select the ISO speed, then press the  button.
- ▶ Once set, the ISO speed will appear.


	Automatically sets the optimal speed for the shooting mode and shooting conditions.		
			Low Fine weather conditions, outdoor shooting
			Cloudy, Twilight
			High Nightscapes, Dark interiors



Changing the ISO speed

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



When the camera is set to , 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.










1 Select the white balance.

- After pressing the  button, press the  buttons to select **AWB**.

2 Select an option.


- Press the  buttons to select an option, then press the  button.
- ▶ The setting you select will display on the screen.

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

Custom White Balance

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



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

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 Select My Colors.

- After pressing the **FUNC SET** button, press the **▲▼** buttons to select **My Colors Off**.

2 Select an option.

- Press the **◀▶** buttons to select an option, then press the **FUNC SET** button.
- ▶ The setting you select will display on the screen.

My Colors Off	—
Vivid	Emphasizes the contrast and color saturation for a vivid impression.
Neutral	Tones down the contrast and color saturation for neutral hues.
Sepia	Sepia tones.
B/W	Black and white.
Custom Color	You can adjust the tone of the image to your preference.



The white balance cannot be set in the **Sepia** and **B/W** modes (p. 68).

Custom Color

The contrast, sharpness and color saturation in an image can be selected and set from 5 different levels.



- Select **Custom Color** in Step 2 above and press the **MENU** button.
- Press the **▲▼** buttons to select an option, then use the **◀▶** buttons to select a value.
- The more to the right, the stronger/deeper the effect gets, the more to the left, the weaker/lighter the effect gets.
- Press the **MENU** button to accept the setting.

Shooting Using a TV Monitor

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




- Connect the camera to a TV as described in “Viewing Images on a TV” (p. 91).
- Shooting procedures are the same as when using the camera’s monitor.

Shooting Using the Two Second Self-Timer

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



Select .


- After pressing the ▼ button, press the ▲▼ buttons to select , then press the  button.
- ▶ Once set,  will appear.
- 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 taken (1 – 10 shots).



1 Select .

- After pressing the ▼ button, press the ▲▼ buttons to select , then immediately press the MENU button.

2 Select the settings.

- Press the ▲▼ buttons to select [Delay] or [Shots].
- Press the ◀▶ buttons to select 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.
- When you set the time delay for more than 2 seconds, the self-timer lamp and sound speed up 2 seconds before the shutter releases (when the flash will fire, the lamp lights).



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

Changing the Composition with the Focus Lock

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



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.

- Hold the shutter button pressed halfway and recompose the scene.

3 Shoot.

- Press the shutter button fully.

5

Getting More Out of Your Camera

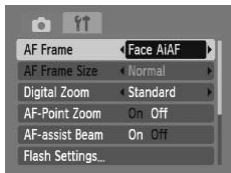
This chapter serves as the advanced version of Chapter 4 and explains how to take pictures using various functions.





- This chapter assumes that **P** mode has been selected by pressing the **MODE** button, then the ◀▶ buttons.
- “★ Shooting Long Exposures” (p. 80) is explained with the camera set to ★ mode. To set this mode, press the **MODE** button, use the ◀▶ buttons to select **SCN** mode, then use the ▲▼ buttons to select ★.
- 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. 116 – 119).

Changing the AF Frame Mode

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



Select [AF Frame].

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

Face AiAF

- Detects people's faces and sets the focus, exposure (evaluative metering only) and white balance (**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. When the shutter button is pressed halfway, up to 5 green frames will appear on faces on which the camera focuses.




- If a face is not detected and only gray frames (no white frame) appear, up to 5 green frames will appear on the areas the camera focuses on when the shutter button is pressed halfway.
- Examples of faces that cannot be detected:
 - Subjects that are far away or extremely close.
 - Subjects that are dark or light.
 - Faces turned to the side or at a diagonal, or faces with a portion hidden.
- The camera may mistakenly identify non-human subjects as a face.
- If the camera cannot focus when you press the shutter button halfway, the AF frame will not appear.

Center

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



You can reduce the AF frame size

- Press the **MENU** button, select the  tab, then select the [AF Frame Size] menu item and [Small] option.
- The setting is configured to [Normal] when the Digital Zoom (p. 54) or Digital Tele-Converter (p. 55) is used.



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

AFL Shooting with the AF Lock

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



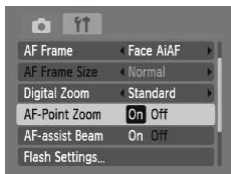
1 Lock the focus.

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

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 Select [AF-Point Zoom].

- Press the **MENU** button and select [AF-Point Zoom] on the tab. Use the **◀▶** buttons to select [On].



2 Check the focus.

- Press the shutter button halfway.
 - ▶ In [Face AiAF] (p. 74), the face selected as the main subject will appear magnified.
 - ▶ In [Center] (p. 75), the contents of the center AF frame will appear magnified.



What if the display does not magnify?

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



The magnified display will not appear when using the Digital Zoom (p. 54) or Digital Tele-Converter (p. 55), or when connected to a TV (p. 70).

Changing the Metering Mode

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



1 Select the metering mode.

- After pressing the button, press the to select .

2 Select an option.

- Press the to select an option, then press the .
- ▶ The setting will display on the screen.

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

AEL Shooting with the AE Lock

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



1 Lock the exposure.

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

2 Compose the scene and shoot.

FEL Shooting with the FE Lock

Just as with the AE lock (p. 77), you can lock the exposure for shooting with the flash. FE stands for “Flash Exposure”.

1 Select ⚡ (p. 61).



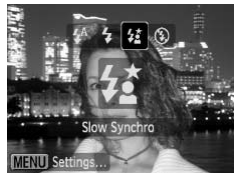
2 Lock the exposure.

- Point the camera toward the subject and press the ▲ button while pressing the shutter button halfway.
- ▶ The flash will fire and when FEL appears, the exposure will be set.
- If you release your finger from the shutter button and press the ▲ button again, FEL will disappear and the 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.



Select ⚡★.

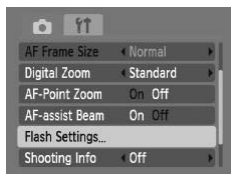
- After pressing the ▶ button, press the ◀▶ buttons to select ⚡★. Then press the (FUNC SET) button.
- ▶ Once set, ⚡★ will appear.
- Even if the flash fires, ensure that the subject does not move until the shutter sound ends.



Attach the camera to a tripod to prevent the camera from moving and blurring the image.

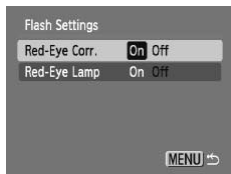
Red-Eye Correction

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








1 Select [Flash Settings].

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




2 Adjust the setting.

- Press the   buttons to select [Red-Eye Corr.] and press the   buttons to select [On].
- ▶  will appear (p. 40).



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



- You can correct recorded images (p. 95).
- If you press the  button as shown on the screen in Step 2 and then press the **MENU** button, the Flash Settings screen will display.

★ Shooting Long Exposures

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



1 Select ★.

- After pressing the **MODE** button, press the **◀▶** buttons to select **SCN**.
- Press the **▲▼** buttons to select ★, then press the **FUNC SET** button.



2 Select the shutter speed.

- After pressing the **FUNC SET** button, press the **▲▼** buttons to select **1"**.
- Press the **◀▶** buttons to select a shutter speed, then press the **FUNC SET** button.

3 Confirm the exposure.

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




- The brightness of the image may differ from the brightness of the screen in Step 3 when the shutter button was pressed halfway.
- When shutter speeds of 1.3 seconds or slower are used, images are processed to eliminate noise after being taken. A certain amount of processing time may be needed before you can take the next shot.

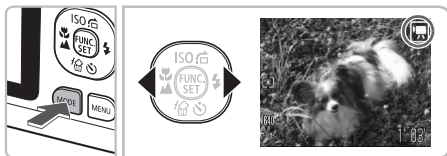





If the flash fires, the image may be overexposed. If this happens, set the flash to **🚫** and shoot.

6

Using Various Functions for Shooting Movies

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



- This chapter assumes that  mode has been selected by pressing the **MODE** button, then the   buttons.

Changing the Image Quality

You can select from among three image quality settings.



1 Select the image quality.

- After pressing the **FUNC SET** button, press the **▲▼** buttons to select **640**.

2 Select an option.

- Press the **◀▶** buttons to select an option, then press the **FUNC SET** button.
- ▶ The setting will display on the screen.

Image Quality Table


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

Estimated Shooting Time

Image Quality (Frame Rate)	Shooting Time		
	128 MB	2 GB	8 GB
640	1 min. 4 sec.	16 min. 47 sec.	1 hr. 7 min. 6 sec.
640 LP	2 min. 7 sec.	33 min. 2 sec.	2 hrs. 12 min. 3 sec.
320	3 min. 1 sec.	46 min. 33 sec.	3 hrs. 6 min. 4 sec.

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

AE Lock/Exposure Shift



In  mode, you can set the exposure or change it in 1/3 steps within a range of ± 2 .





1 Focus.

- Press the shutter button halfway to focus.

2 Lock the exposure.

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





3 Change the exposure.

- While looking at the screen, press the   buttons to adjust the brightness.

4 Shoot.

Other Shooting Functions

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













- **Zooming in More Closely on Subjects (Digital Zoom) (p. 54)**
You can use the digital zoom, but the optical zoom cannot be used. If you want to shoot at the maximum zoom factor, you should adjust the optical zoom to the maximum before shooting. The sound of the zoom will be recorded.
-  **Using the Self-Timer (p. 57)**
-  **Shooting Close-ups (Macro) (p. 61)**
-  **Shooting Far Away Subjects (Infinity) (p. 63)**
- **Adjusting the White Balance (p. 68)**
- **Changing the Tone of an Image (My Colors) (p. 69)**
- **Shooting Using a TV Monitor (p. 70)**
-  **Shooting Using the Two Second Self-Timer (p. 70)**
- **Turning off the AF Assist Beam (p. 103)**
- **Displaying the Overlay (p. 104)**
[3:2 Guide] is not available.

Playback Functions

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

- Erasing Images (p. 24)
-  Searching Images by Sets of 9 (Index Display) (p. 86)
-  Searching for Images Using the Jump Display (p. 87)
-  Viewing Slideshows (p. 88)
-  Changing Image Transitions (p. 90)
- Viewing Images on a TV (p. 91)
-  Protecting Images (p. 92)
-  Erasing All Images (p. 93)
-  Rotating Images (p. 93)


Summary for “Viewing Movies” (p. 29)

	Exit
	Playback
	Slow Motion Playback (you can use the   buttons 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
	Displays when connected to a PictBridge compliant printer (p. 25). Refer to the <i>Personal Printing Guide</i> for details.

7

Using Playback and Other Functions

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

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



- It may not be possible to play back or edit images that have been edited on a computer, had their file name changed, or have been taken on a different camera.
- The edit function (pp. 94 – 95) cannot be used if the memory card does not have free space available.

Searching Images by Sets of 9 (Index Display)

Displaying 9 images at a time lets you quickly find the image you want.



1 Press the zoom button toward .

- ▶ Images will display in an index. The selected image will have a green frame and be enlarged.



2 Select an image.

- Press the     buttons to select an image.
- Pressing the zoom button toward  will display the selected image by itself.

Searching 9 Images at a Time



Jump Bar




1 Press the zoom button toward .

- ▶ Images will display in an index.




2 Press the zoom button toward again.

- ▶ The jump bar appears.

3 Change the displayed images.

- Press the   buttons to switch between sets of 9 images.
- Pressing the zoom button toward  restores the index display.



When the jump bar displays, holding the  button and pressing the   buttons jumps to the first or last set of images.

📁 Searching for Images Using the Jump Display

When there are many images on the memory card, you can search them by a specified method or image unit.








Position of currently displayed image



1 Select a jump method.

- In Single Image Playback, press the ▲ button.
- ▶ The search method and the position of the currently displayed image will appear at the bottom of the screen.
- Press the ▲▼ buttons to select the desired search method.

2 Jump to an image.

- Press the ◀▶ buttons.
- ▶ The camera will use the selected search method to jump to an image.
- To return to Single Image Playback, press the **MENU** button.

 Jump 10 Images	Jumps over 10 images at a time.
 Jump 100 Images	Jumps over 100 images at a time.
 Jump Shot Date	Jumps to the first image in each shooting date group.
 Jump to Movie	Jumps to a movie.
 Jump to Folder	Jumps to the first image in each folder.

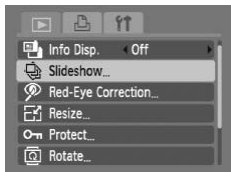
* The number of images matching the search filter will display on the right side of the screen except for  and .





If there are no images matching the search filter, the ◀▶ buttons will not function.

Viewing Slideshows

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










1 Select [Slideshow].

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







2 Select a transition effect and start the slideshow.

- Press the   buttons to select a transition effect, then press the .
- ▶ 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.

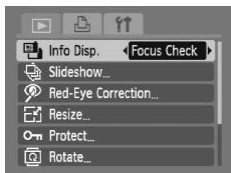
	Switches between images without transition effect.
	Fades one image out and the next in.
	The image slides out to the left and the next image appears.



- If you press the   buttons during playback, the image will switch. If you press and hold down the   buttons you can fast-forward through images.
- The power saving function does not work during slideshows (p. 39).

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 Select [Focus Check].

- Press the **MENU** button, select the tab and [Info Disp.].
- Press the buttons to select [Focus Check], then press the **MENU** 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.

- Pressing the button will switch to a different white frame.

3 Change the magnification level or location.














- Press the zoom button toward .
- Press the zoom button to change the display size, and press the buttons to change the display position while checking the focus.
- Pressing the **MENU** button resets the display to Step 2.

Q Magnifying Images



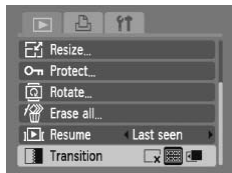
Approximate Location of Displayed Area

Press the zoom button toward .




- The display will zoom in on the image and **SET**  will appear. If you continue to hold the zoom button, it will continue to zoom in up to a factor of 10x.
- If you press the     buttons, you can move the location of the displayed area.
- Pressing the zoom button toward  will reduce the magnification, and if you continue to hold the zoom button, Single Image Playback will be restored.
- When **SET**  appears on the screen, press the  button to switch to **SET** . Press the   buttons to switch between images at the same level of magnification. Press the  button again to return to **SET** .

Changing Image Transitions

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



Select [Transition].

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



Switches between images without a transition effect.



Fades one image out and the next in.



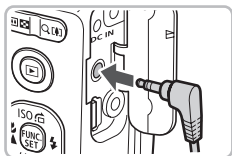
Slides images left or right when the   buttons are pressed.

Viewing Images on a TV

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

Items to Prepare

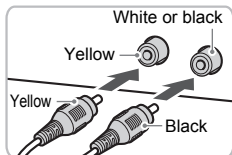
- Camera and TV
- AV cable supplied with the camera (p. 2)



1 Turn off the camera and TV.


2 Connect the camera to the TV.

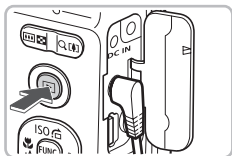
- Open the camera's terminal cover and fully insert the plug of the supplied AV cable into the camera's A/V OUT terminal.
- Insert the cable plug fully into the video input terminals as shown in the illustration.




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

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 monitor of the camera).
- After you finish viewing, turn off the camera and TV, and unplug the AV cable.

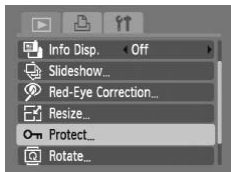


What if the images don't properly display on the TV?



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

Protecting Images

You can protect important images so that they cannot be erased by the camera (pp. 24, 93).









1 Select [Protect].

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



2 Protect the image.

- Press the   buttons to select an image, then press the .
- ▶ Once protected,  will appear.
- Pressing the  button again deselects the image and  will disappear.
- To protect additional images, repeat the above procedure.
- Pressing the **MENU** button will restore the menu screen.



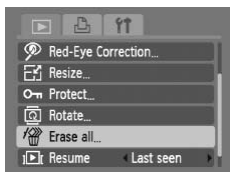
If you format the memory card (p. 47), protected images will also be erased.





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

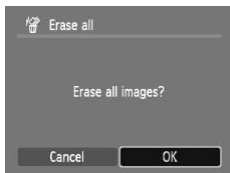
Erasing All Images

You can select and erase all images at once. Since erased images cannot be recovered, exercise adequate caution before erasing. Protected images (p. 92) cannot be erased.






1 Select [Erase all].

- Press the **MENU** button, select the  tab and [Erase all], and press the  button.

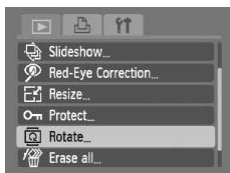


2 Erase all images.



- Press the   buttons to select [OK], then press the  button.
- ▶ All images will be erased.
- Pressing the **MENU** button will restore the menu screen.

Rotating Images

You can change the orientation of an image and save it.






1 Select [Rotate].

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

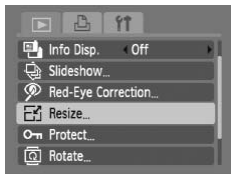


2 Rotate the image.



- Press the   buttons to select an image.
- The image will rotate 90° with each press of the  button.
- Pressing the **MENU** button will restore the menu screen.

Resizing Images

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



1 Select [Resize].

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

2 Select an image.




- Press the   buttons to select an image, then press the  button.

3 Select an image size.

- Press the   buttons to select a size, then press the  button.
- ▶ The [Save new image?] screen will appear.






4 Save the new image.

- Press the   buttons to select [OK], then press the  button.
- ▶ The image will be saved as a new file.



5 Display the new image.

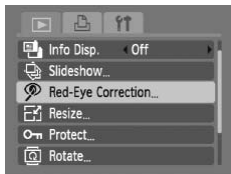
- When you press the **MENU** button, the [Display new image?] screen will appear. If you press the   buttons, select [Yes] and press the  button, the saved image will display.





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

Correcting the Red-Eye Effect

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




1 Select [Red-Eye Correction].

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

2 Select an image.



- Press the  buttons to select an image.

3 Correct the image.

- When you press the  button, red-eye detected by the camera will be corrected and a frame will appear around the corrected portion.
- You can zoom the image using the procedures in “Q Magnifying Images” (p. 90).



4 Save as a new image and display.

- Press the  buttons to select [New File], then press the  button.
- ▶ The image will be saved as a new file.
- Perform Step 5 on p. 94.



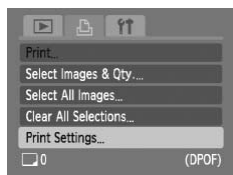
- Some images may not be properly corrected.
- When [Overwrite] in Step 4 is selected, the uncorrected image is overwritten with the corrected data, erasing the original image.
- Protected images cannot be overwritten.

Selecting Images for Printing (DPOF)



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

Print Settings

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



1 Select [Print Settings].


- Press the **MENU** button and select the  tab, then select [Print Settings] and press the  button.

2 Adjust the settings.

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

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

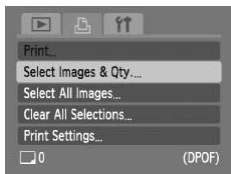


- Some printers or photo developer services may not be able to reflect all of the print settings in the output.
-  may display when using a memory card with print settings set by a different camera. These settings will be overwritten by those set by your camera.
- Images with the date embedded always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



- With [Index] selected, the [Date] and [File No.] options cannot be set to [On] at the same time.
- The date will be printed in the style set in the [Date/Time] function in the **↑↑** tab (p. 16).

Selecting the Number of Copies



1 Select [Select Images & Qty.].

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

2 Select an image.

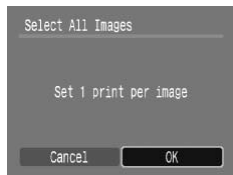
- Press the buttons to select an image, then press the .
- ▶ You will be able to set the number of print copies.
- If you select [Index], appears.
- Press the again to deselect the images. will disappear.

3 Set the number of prints.


- Press the buttons to set the number of prints (max. 99).
- Repeat Steps 2 and 3 to select other images and the number of prints for each.
- You cannot set the number of print copies for Index prints. You can only select which images to print.
- ▶ Pressing the **MENU** button accepts the settings and restores the menu screen.






Set All Images to Print Once



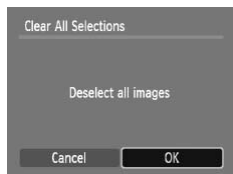
1 Select [Select All Images].

- Select [Select All Images] from the screen in Step 1 on p. 97 and press the  button.


2 Make print settings.

- Press the   buttons to select [OK], then press the  button.
- ▶ All images will be set to print once.




Clearing All Selections



1 Select [Clear All Selections].

- Select [Clear All Selections] in Step 1 on p. 97, and press the  button.

2 All selections will be cleared.

- Press the   buttons to select [OK], then press the  button.
- ▶ All selections will be cleared.

Print Added Images


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

Number of copies to print



1 Connect the camera to the printer (p. 25).

2 Print.

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


8

Customizing the Camera

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

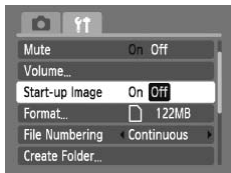




Changing Functions

You can customize convenient and commonly used functions from the  tab (p. 44).

Turning Off the Start-up Image

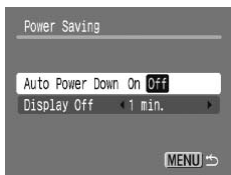
You can turn off the start-up image that displays when you turn on the camera.








- Select [Start-up Image], then press the   buttons to select [Off].

Turning off the Power Saving Function

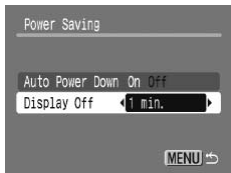
You can set the power saving function (p. 39) to [Off]. Setting it to [On] is recommended to save battery power.








- Select [Power Saving], then press the  button.
- Press the   buttons to select [Auto Power Down], then use the   buttons to select [Off].
- If you set the Power Saving function to [Off], be careful not to forget to turn off the camera after use.

Setting the Screen Shut-Off Time

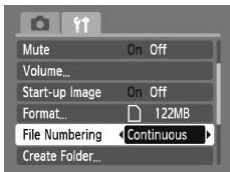
You can adjust the time the screen takes to shut off automatically (p. 39). This also works when [Auto Power Down] is set to [Off].



- Select [Power Saving], then press the  button.
- Press the   buttons to select [Display Off], then use the   buttons to select a time.
- In order to save battery power, it is recommended to select less than [1 min.].

Changing the File Number Assignment

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



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

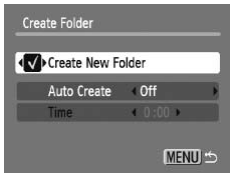
Continuous	Even if you shoot using a new memory card, the file numbers are assigned consecutively until an image with the number 9999 is taken/saved.
Auto Reset	If you replace the memory card with a new one, file numbering begins with 0001 again.





- If you use a memory card already containing images, the newly assigned file numbers may continue the existing numbering for both the [Continuous] and [Auto Reset] settings. If you want to start over with file number 0001, format the memory card before use (p. 47).
- Refer to the *Software Starter Guide* for information regarding folder structure or image types.

Creating a Folder

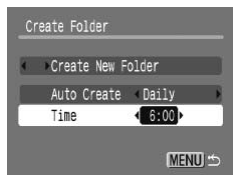
You can create new folders in which to save images.






- Select [Create Folder], then press the  button.
- Select [Create New Folder], then press the ◀▶ buttons to select ✓.
-  will display on the screen (p. 40) when shooting, and shots will be recorded into a new folder.


Creating Folders by Day and Time

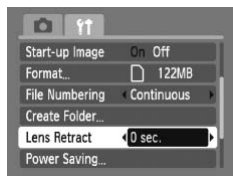
You can set a day and time for folder creation.




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




Changing the Lens Retract Time

For safety reasons, the lens retracts about 1 minute after pressing the  button when in a shooting mode (p. 23). You can set the retraction time to [0 sec.].



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

Changing Shooting Functions

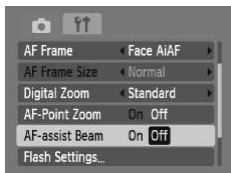
You can set functions in the  tab after pressing the **MODE** button and using the   buttons to select **P** (p. 44).





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. 118 – 119).

Turning off the AF Assist Beam

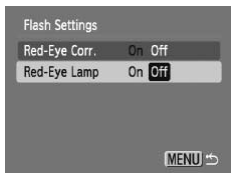
If the camera cannot focus in low light conditions when you press the shutter button halfway, the lamp will automatically light to assist focusing. You can turn off the lamp.








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

Turning off the Red-Eye Reduction Function

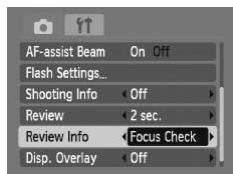
The red-eye reduction lamp lights in order to reduce the red-eye effect that occurs when shooting in dark conditions with the flash. You can turn off this function.



- Select [Flash Settings], then press the  button.
- Press the   buttons to select [Red-Eye Lamp], then press the   buttons to select [Off].

Changing the Image Display Right After Shooting

You can change the image display that appears after shooting.

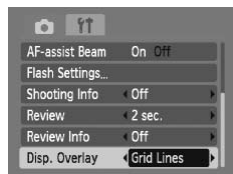


- Select [Review Info], then press the ◀▶ buttons to select an option.

Detailed	Displays detailed information (p. 41).
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. 89).

Displaying the Overlay

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



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

Grid Lines	A grid overlays the display.
3:2 Guide	Gray areas appear at the top and bottom of the screen. These areas will not print when printing on 3:2 aspect ratio paper.
Both	Both grid lines, and the 3:2 guide will display.

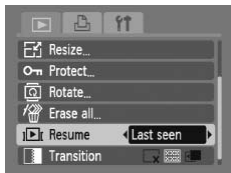




- In **W** mode, you cannot set [3:2 Guide] or [Both].
- Grid Lines will not be recorded on the image.
- The gray areas displayed with [3:2 Guide] are the areas that will not be printed. The actual image recorded will include the portion in the gray areas.

Changing Playback Functions

You can adjust the settings in the  tab by pressing the  button (p. 44).

Selecting the Image that First Displays in Playback



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

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



9

Useful Information

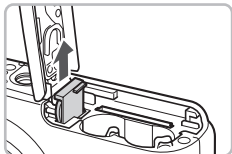
This chapter introduces date/time battery replacement, how to use the AC adapter kit (sold separately), troubleshooting tips, and contains lists of available camera functions. The index also appears at the end.



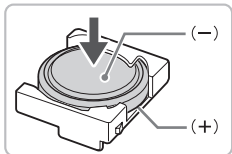
Replacing the Date/Time Battery

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).

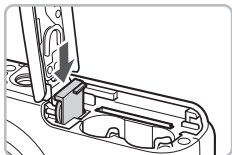
- 1 Turn off the camera.
- 2 Open the cover and remove the AA batteries (p. 12).
- 3 Remove the date/time battery holder.



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



- 5 Insert the date/time battery holder.
- 6 Insert the batteries and close the cover.
- 7 Turn on the camera's power and set the date/time (p. 16).



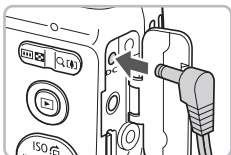
Using Household Power

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.

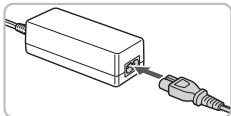
2 Plug the cord into the camera.

- Open the cover and fully insert the adapter 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.
- You can turn the camera on to use it.
- After you finish, turn off the camera and unplug the power cord from the power outlet.



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

Handling Precautions

Equipment

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

Memory Cards

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

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 properly inserted (p. 12).
- Confirm that the batteries are not depleted (p. 14).
- Confirm that the memory card/battery cover is securely closed (p. 13).
- 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 by, for example, 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. 13).

TV output

Image is distorted or not showing on TV (p. 91).

Shooting

Cannot shoot.

- Press the shutter button halfway (p. 19) in playback mode (p. 23).

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

appears when the shutter button was pressed halfway (p. 53).


- Set the flash to  (p. 61).
- Increase the ISO speed (p. 67).
- Attach the camera to a tripod.

Image is blurred.


- Press the shutter button halfway to focus, then shoot (p. 19).
- Shoot the subject within the focusing distance (p. 122).
- Set the [AF-assist beam] to [On] (p. 103).
- Confirm that functions which you do not intend to use (macro, etc.) are not set.

- Shoot using the focus lock (p. 72).

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

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

Subject is too dark.

- Set the flash to  (p. 61).
- Adjust the brightness with exposure compensation (p. 66).
- Use the AE lock, or spot metering to shoot (p. 77).

Subject is too bright (overexposed).



- Set the flash to  (p. 53).
- Adjust the brightness with exposure compensation (p. 66).
- Use the AE lock, or spot metering to shoot (p. 77).
- Reduce the light illuminating the subject.

Image is dark even though the flash fired (p. 22).

- Increase the ISO speed (p. 67).
- Shoot within an appropriate distance for flash photography (p. 61).

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

- Shoot within an appropriate distance for flash photography (p. 61).
- Set the flash to  (p. 53).

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. 67).
- Depending on the shooting mode, when shooting in a high ISO speed the image may appear rough or grainy (p. 52).

Eyes appear red (p. 79).

- Set the [Red-Eye Lamp] to [On] (p. 103). When shooting with the flash, the lamp (on the front of the camera) lights (p. 38), 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.

- Format the memory card in the camera (p. 47).

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

- The items in which settings can be made differ depending on the shooting mode. Refer to "Functions Available in Each Shooting Mode" (pp. 116 – 117).

Shooting movies

Correct shooting time does not display, or stops.

- Format the memory card in the camera, or use a memory card capable of recording at high speeds. Even when the shooting time does not display properly, the video recorded will be the length that it was actually shot (p. 28).

“!” displayed on the LCD monitor, and shooting ended automatically.

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

- Format the memory card in the camera (p. 47).
- Lower the recorded pixels (p. 82).
- Use a memory card capable of recording at high speeds.

Zoom does not operate.

- You can use the digital zoom while recording, but not the optical zoom (p. 83).

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 Starter Guide* for information regarding folder structure or file names.

Playback stops, or audio cuts out.

- Use a card that has been formatted on this camera (p. 47).
- If you copy a movie to a memory card that reads slowly, playback may interrupt momentarily.
- Depending on its capabilities, the computer may drop frames, or the audio may cut out, when playing movies.

List of Messages that Appear on the Screen

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

No memory card

- The memory card is not installed in the correct direction. Install the memory card in the correct direction (p. 12).

Card locked!

- The SD memory card or SDHC memory card's write protect tab is set to "Lock". Unlock the write protect tab (p. 15).

Cannot record!

- You attempted to shoot an image without a memory card, or with a memory card installed incorrectly. Install the memory card in the correct direction when shooting (p. 12).

Memory card error (p. 48)

- If this error message appears even when using the supplied memory card, contact your Canon Customer Support Help Desk as there may be a problem with the camera.

Memory card full

- There is not enough free space on the memory card to shoot (pp. 20, 49, 59, 73) or edit images (pp. 94 – 95). Erase the images (pp. 24, 93) to open space for new images, or insert an empty memory card (p. 12).

Change the batteries (p. 12)

No image.

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

Protected! (p. 92)

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

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

Cannot magnify!/Cannot rotate/Cannot modify image/Unselectable image

- Incompatible images cannot be magnified (p. 90), rotated (p. 93), edited (pp. 94 – 95) or added to a print list (p. 96).
- Images manipulated on a computer, that have had their file name changed, or have been taken with a different camera may not be magnified, rotated, edited or added to a print list.
- Movies cannot be magnified (p. 90).

Too many marks.

- You selected more than 998 images to send in print settings. Select less than 998 images (p. 96).

Cannot complete!

- Print settings or transfer settings could not be saved correctly. Reduce the number of settings and try again (p. 96).

Naming error!

- The file name could not be created because there is an image with the same name as the folder that the camera is attempting to create, or the highest possible file number has already been reached (p. 101). In the **Y** menu, change [Image Number] to [Auto reset] (p. 101) or format the memory card (p. 47).

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 to the computer. To print, insert the card into the printer's card slot.











Lens error, restart camera

- A lens error was detected. Press the power button to turn the camera off and back on (p. 38). If this error message continues to display, contact your Canon Customer Support Help Desk as there may be a problem with the lens.
- This error can occur if you hold the lens while it is in motion or when using it in a location with excessive dust or sand in the air.
























Exx (xx: number)



- A camera error was detected. Press the power button to turn the camera off and back on (p. 38).
- If an error code displays directly after taking a picture, the shot may not have been recorded. Check image in playback mode.
- If this error code reappears, note the number and contact your Canon Customer Support Help Desk as there may be a problem with the camera.

Functions Available in Each Shooting Mode

Function	Shooting modes		AUTO	P
ISO Speed (p. 67)	ISO AUTO		○	○
	ISO 80	ISO 100 ISO 200 ISO 400 ISO 800 ISO 1600	—	○
Focusing Zone (pp. 61, 63)	All Range		○	—
			—	○
			—	○
Flash (pp. 53, 61, 78)			○	○
			—	○
			—	○
			○	○
Self-Timer Mode (pp. 57, 70, 71)			○	○
			○	○
		*2	○	○
AF Lock (p. 75)		—	○	
AE Lock (pp. 77, 83)/FE Lock (p. 78)		—	○	
AE Lock/Exposure Shift (p. 83)		—	—	
TV Display (p. 70)		○	○	
Screen Display (p. 40)	Information View		○	○
	No Information		○	○

Function menu

Exposure Compensation (p. 66)		—	○	
White Balance (p. 68)	AWB		○	○
	     		—	○
My Colors (p. 69)	     		—	○
Metering System (p. 77)			○	○
	[] [•]		—	○
Drive Mode (p. 66)	 		—	○
Image Quality (Compression Ratio) (p. 64)	     		○	○
Recording Pixels (pp. 64, 82)			○	○
	640  320		—	—

*1  when flash fires. *2 Possible settings: 0 – 30 seconds in [Delay], and 1 – 10 shots in [Shots]. *3  is not selectable.

Functions Available in Each Shooting Mode

SCN													
○	○	○	○	○	○	—	○	○	○	○	○	○	○
—	—	—	—	—	—	○	—	—	—	—	—	○	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
○	○	—	○	—	—	○	○	○	○	○	○	—	○
○	○	○	○	○	○	○	○	○	○	○	○	—	○
○	○	—	○	—	—	○	○	○	○	○	○	—	○
○	*1	○	○	*1	—	—	○	—	○	○	—	—	—
○	*1	○	○	*1	—	*1	○	○	○	○	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
○	○	○	○	○	○	○	○	○	○	○	○	○	—
○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○	○	○	○	—
—	—	—	—	—	—	○	—	—	—	—	○	○	○
—	—	—	—	—	—	—	—	—	—	—	—	○	—
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Function menu

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○ Selectable or selected automatically — Not selectable

Menus

Shooting Menu

Function		Shooting modes	AUTO	P
AF Frame (p. 74)	Face AiAF		○	○
	Center		—	○
AF Frame Size (p. 75)	Normal/Small		—	○
Digital Zoom (p. 54)	Standard/Off		○	○
	Digital Tele-Converter (1.4x/2.3x)		○	○
AF-Point Zoom (p. 76)	On/Off		○	○
AF-assist Beam (p. 103)	On/Off		○	○
Flash Settings (p. 79)	Red-Eye Corr.	On/Off	○	○
	Red-Eye Lamp	On/Off	○	○
Shooting Info (p. 40)	On/Off		○	○
Review (p. 48)	Off/2 – 10 sec./Hold		○	○
Review Info (p. 104)	Off/Detailed/Focus Check		○	○
	Off/Grid Lines		○	○
Disp. Overlay (p. 104)	3:2 Guide/Both		○	○

*1 AiAF *2 Available when  is selected.

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○ Selectable or selected automatically — Not selectable

Set up Menu

Item	Options/Summary	Ref. Page
Mute	On/Off*	p. 45
Volume	Set all operation sounds (5 levels).	p. 45
Start-up Image	On*/Off	p. 100
Format	Formats card, erasing all data	p. 47
File Numbering	Continuous*/Auto Reset	p. 101
Create Folder	Create New Folder/Auto Create	pp. 101, 102
Lens Retract	1 min.*/0 sec.	p. 102
Power Saving	Auto Power Down: On*/Off Display Off: 10, 20 or 30 sec./1*, 2 or 3 min.	pp. 39, 100
Date/Time	Date and time settings	p. 17
Video System	NTSC/PAL	p. 91
Language	Select displayed language.	p. 18
Reset All	Returns camera to default settings.	p. 46

* Default setting

Playback Menu

Item	Options/Summary	Ref. Page
Information Display	No Information Display*/Simple Information Display/Detailed Information Display/Focus Check Display	p. 41
Slideshow	Plays back images and movies automatically.	p. 88
Red-Eye Correction	Corrects red eyes in images.	p. 95
Resize	Resizes and saves images.	p. 94
Protect	Protects images and movies.	p. 92
Rotate	Rotates images and movies.	p. 93
Erase all	Erases all images and movies.	p. 93
Resume	Last seen*/Last shot	p. 105
Transition		p. 90

* Default setting



Print Menu

Item	Options/Summary	Ref. Page
Print	Displays printing screen.	p. 25
Select Images & Qty.	Selects individual images for printing.	p. 97
Select All Images	Selects all images for printing.	p. 98
Clear All Selections	Cancel all settings for printing.	p. 98
Print Settings	Sets the printing style.	p. 96

Specifications

Camera Effective Pixels	Approx. 10.0 million
Image Sensor	1/2.3-inch type CCD (Total number of pixels: Approx. 10.3 million)
Lens	6.6 (W) – 21.6 (T) mm 35mm film equivalent: 37 (W) – 122 (T) mm f/3.0 (W) – f/5.8 (T)
Digital Zoom	Approx. 4.0x (Up to approx. 13x in combination with the optical zoom)
LCD Monitor	2.5-inch type TFT LCD color monitor Approx. 115,000 dots, picture coverage 100%
AF Frame Mode	Face AiAF/Center
Focusing Range (from end of lens)	Auto: 4 cm (1.6 in.) – infinity (W)/ 25 cm (9.8 in.) – infinity (T) Normal: 50 cm (1.6 ft.) – infinity Macro: 3 – 50 cm (1.2 in. – 1.6 ft.) (W)/ 25 – 50 cm (9.8 in. – 1.6 ft.) (T) Infinity: 3 m (9.8 ft.) – infinity Kids&Pets: 1 m (3.3 ft.) – infinity Super Macro: 1 – 10 cm (0.39 – 3.9 in.)
Shutter	Mechanical shutter and electronic shutter
Shutter Speed	1/60– 1/2000 sec. 15 – 1/2000 sec. (Total shutter speed range)
Metering Type	Evaluative, Center-weighted average or Spot
Exposure Compensation	±2 stops in 1/3-stop increments
ISO speed (Standard Output Sensitivity, Recommended Exposure Index)	Auto, ISO 80/100/200/400/800/1600
White Balance	Auto, Day Light, Cloudy, Tungsten, Fluorescent, Fluorescent H, Custom
Built-in Flash	Auto, On, Slow Synchro, Off * Red-eye reduction/Red-eye correction/FE Lock settings available
Built-in Flash Range	30 cm – 3.0 m (12 in. – 9.8 ft.) (W)/ 30 cm – 2.0 m (12 in. – 6.6 ft.) (T)
Shooting Modes	Auto, Program AE, Special scene mode*, Movie * Portrait, Night Snapshot, Kids&Pets, Indoor, Sunset, Fireworks, Long Shutter, Beach, Aquarium, Foliage, Snow, Super Macro
Continuous Shooting	Approx. 0.8 images/sec.
Self-timer	Approx. 10-sec./Approx. 2-sec. delay, Custom Timer
Recording Media	SD memory card, SDHC memory card, MultiMediaCard, MMCplus memory card, HC MMCplus memory card
File Format	Design rule for camera file system and DPOF compliant
Data Type	Still images: Exif 2.2 (JPEG) Movies: AVI (Image data: Motion JPEG, Audio data: WAVE (Mono))
Compression	Fine, Normal

Number of Recording Pixels (Still images)	Large: 3648 x 2736 pixels Medium 1: 2816 x 2112 pixels Medium 2: 2272 x 1704 pixels Medium 3: 1600 x 1200 pixels Small: 640 x 480 pixels Date Stamp: 1600 x 1200 pixels Widescreen: 3648 x 2048 pixels
(Movies)	640 x 480 pixels (30 frames/sec.) 640 x 480 pixels (30 frames/sec. LP) 320 x 240 pixels (30 frames/sec.)
Number of Possible Shots	Approx. 200 images (Based on CIPA standardized measurement)
Playback Function	Single Image, Movie, Index, Jump, Magnified Focus, Magnified, Slideshow
Editing Function	Erase, Protect, Rotate, Resize, Red-Eye Correction
Direct Print Type	PictBridge capable
Interface	Hi-Speed USB (Dedicated connector (female) with unified type of digital, audio and video*) * mini-B compatible Video/Audio output (NTSC and PAL capable, mono audio)
Communication Settings	MTP, PTP
Power	2 AA-size alkaline batteries 2 AA-size NiMH batteries (NB-3AH sold separately)
Operating Temperatures	0 – 40 °C (32 – 104 °F)
Operating Humidity	10 – 90%
Dimensions (excluding protrusions)	92.1 x 62.0 x 31.1 mm (3.63 x 2.44 x 1.22 in.)
Weight (camera body only)	Approx. 140 g (4.94 oz.)

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

Numerics

3.5" x 5" Size	65
3:2 Guide	104

A

AC Adapter Kit	36, 109
Accessories	34
AE Lock	77, 83
AF → Auto Focus	
AF Frame	21
AF Lock	75
Aquarium (Scene Mode)	51
AV Cable	2, 91

B

Battery	
Battery and Charger Kit	34, 36
Charge Indicator	14
Date/Time Battery	17, 108
Power Saving	39
Beach (Scene Mode)	51
Black and White Images	69

C

Camera Shake	53
Components Guide	38
Compression → Image Quality	
Continuous Shooting	66

D

Date and Time	
Adding to Image	56
Changing	17
Date/Time Battery	17, 108
Settings	16
Date/Time → Date and Time	
Default Settings	46
Deleting → Erasing	
DIGITAL CAMERA Solution Disk	2, 31
Digital Tele-Converter	55
Digital Zoom	54
Display Language	18
Display Overlay	104
DPOF	96

E

Editing	
Red-Eye Correction	95
Resizing (Making Images Smaller)	94
Rotating Images	93
Enlarged Display	90
Equipment	
Default Settings	46
Holding the Camera	11
Erasing All Images	93
Erasing Images	24
Error Messages	114
Exposure	
AE Lock	77, 83
Correction	66
FE Lock	78

F

Face AiAF	74
Factory Settings → Default Settings	
FE Lock	78
File Number	101
Fireworks (Scene Mode)	51
Flash	
Off	53
On	61
Slow Synchro	78
Supplementary Flash	36
Focus	
AF Frame	21
AF Frame Mode	74
AF Lock	75
AF-Point Zoom	76
Focus Check	89
Focus Lock	72
Format → Memory Card, Formatting	
Formatting (Memory Card)	47
FUNC. Menu	
Basic Operations	43
List	116

G

Green Leaves/Autumn Foliage (Scene Mode)	52
---------------------------------------------------	----

- Grid Lines 104
- H**
- High-Power Flash 36
- Histogram 42
- Household Power 109
- I**
- Image Quality (Compression Ratio) 64
- Images
- Display Time 48
 - Editing → Editing
 - Erasing Images 24
 - Playback → View
 - Protect 92
- Indicator 38, 39
- Indoor (Scene Mode) 51
- Infinity 63
- Interface Cable 2, 25, 31
- ISO Speed 67
- K**
- Kids&Pets (Scene Mode) 50
- L**
- Lamp 38, 57, 103
- LCD monitor → Screen
- Long Exposures 80
- Long Shutter Mode (Scene Mode) 80
- M**
- Memory Cards 15
- Available Shots 15, 65
 - Formatting 47
- Menu
- Basic Operations 44
 - List 118 – 121
- Metering Mode 77
- MMCplus/HC MMCplus Memory Card →
- Memory Cards
- Mode Button 38
- Movies
- Image Quality (Frame Rate) 82
 - Recording Pixels 82
 - Shooting Time 28, 82
- Viewing (Playback) 29
- MultiMediaCard → Memory Cards
- My Colors 69
- N**
- Night Snapshot (Scene Mode) 50
- Number of Shots 14
- P**
- Package Contents → Accessories
- Personal Printing Guide 2
- PictBridge 25
- Playback → View
- Playback Button 23
- Playback With Transition Effects 90
- Portrait (Scene Mode) 50
- Postcard Size 65
- Power Button 38
- Power Saving 39
- Print Settings (DPOF) 96
- Printer 25, 26
- Printing 25
- Program AE 60
- R**
- Recording Pixels (Image Size) 64
- Red-Eye
- Auto Correction 79
 - Correction 95
 - Reduction 103
- Resizing (Making Images Smaller) 94
- Rotating Images 93
- S**
- SCN (Scene Mode) 50
- Screen
- Display Language 18
 - Information Displayed 40, 41
 - Menu Operations 43, 44
 - Switching the Display 40, 41
- SD/SDHC Memory Card → Memory Cards
- Self-Timer
- 10 second Self-Timer 57
 - Changing Delay and
 - Number of Shots 71

Two Second Self-Timer	70
Sepia Tones	69
Shooting Date and Time → Date/Time	
Shooting Using a TV	70
Shooting With Macro	61
Shutter Button	19
Slideshow	88
Snow (Scene Mode)	52
Software	
DIGITAL CAMERA Solution Disk	2, 31
Software Starter Guide	2
Transferring Images to a Computer	30
Sound	45
Strap	2, 11
Sunset (Scene Mode)	51
Super Macro (Scene Mode)	62
Supplementary Flash	36

T

Terminal	25, 32, 91
Tone (White Balance)	68
Troubleshooting	111

V

Video → Movies	
Viewing (Playback)	
Enlarged Display	90
Index Display	86
Single Image Playback	23
Slideshow	88
Viewing Images on a TV	91
Viewing Images on a TV	91

W

White Balance	68
Wide (Recording Pixels)	64, 65
Wrist Strap → Strap	

Z

Zoom	20, 27, 54
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MEMO

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