Canon

PowerShot D20

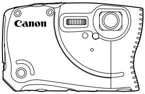
Camera User Guide

- Before use, be sure to read this guide, including the safety precautions.
- This guide will familiarize you with how to use the camera correctly.
- Keep the guide handy for future reference.

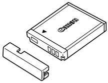
ENGLISH

Package Contents

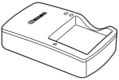
Before use, make sure the following items are included in the package.
If anything is missing, contact your camera dealer.



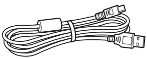
Camera



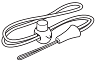
Battery Pack NB-6L (with terminal cover)



Battery Charger CB-2LY/CB-2LYE

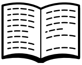


Interface Cable IFC-400PCU

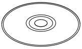


Wrist Strap WS-DC8

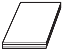
Strap Mount



Getting Started



DIGITAL CAMERA Solution Disk



Warranty System Booklet

- A memory card is not included (p. 2).

User Manuals

For information about the included software, refer to the *ImageBrowser EX User Guide*, on the DIGITAL CAMERA Manuals Disk (p. 28).

- Adobe Reader is required to view the PDF manuals. Microsoft Word/ Word Viewer can be installed to view the Word manuals (required only for manuals for the Middle East).

Compatible Memory Cards

The following memory cards (sold separately) can be used, regardless of capacity.

- SD memory cards*
- SDHC memory cards*
- SDXC memory cards*
- Eye-Fi cards

* Conforms to SD specifications. However, not all memory cards have been verified to work with the camera.

About Eye-Fi Cards

This product is not guaranteed to support Eye-Fi card functions (including wireless transfer). In case of an issue with an Eye-Fi card, please check with the card manufacturer.

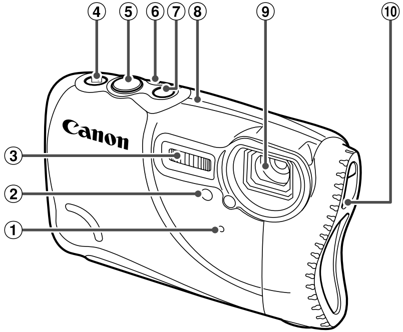
Also note that an approval is required to use Eye-Fi cards in many countries or regions. Without approval, use of the card is not permitted. If it is unclear whether the card has been approved for use in the area, please check with the card manufacturer.

- Always confirm beforehand that memory cards are supported on other devices such as card readers and computers (including the current version of your operating system).

Preliminary Notes and Legal Information

- Take and review some test shots initially 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.
- Images recorded by the camera are intended for personal use. Refrain from unauthorized recording that infringes on copyright law, and note that even for personal use, photography may contravene copyright or other legal rights at some performances or exhibitions, or in some commercial settings.
- For information on your camera's warranty, please refer to the Warranty information provided with your camera. For Canon Customer Support, please refer to the warranty information for contact information.
- Although the LCD monitor is produced under extremely high-precision manufacturing conditions and more than 99.99% of the pixels meet design specifications, in rare cases some pixels may be defective or may appear as red or black dots. This does not indicate camera damage or affect recorded images.
- The LCD monitor may be covered with a thin plastic film for protection against scratches during shipment. If covered, remove the film before using the camera.
- When the camera is used over an extended period, it may become warm. This does not indicate damage.

Part Names and Conventions in This Guide

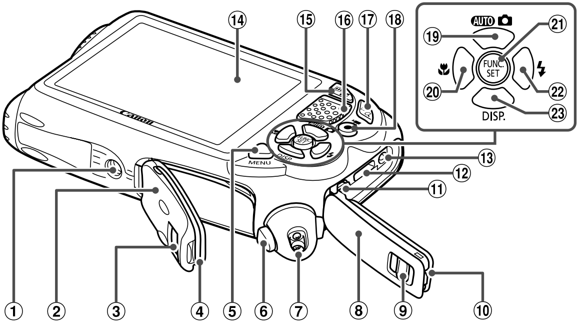


① Microphone
② Lamp
③ Flash
④ ▶ (Playback) button
⑤ Shutter button
⑥ Indicator
⑦ ON/OFF button
⑧ GPS antenna
⑨ Lens
⑩ Shoulder strap/carabiner strap mount

- (!) : Important information you should know
- ✎ : Notes and tips for expert camera use
- (p. xx): Pages with related information (in this example, “xx” represents a page number)
- Instructions in this guide apply to the camera under default settings.
- For convenience, all supported memory cards are simply referred to as “the memory card”.
- The tabs shown above titles indicate whether the function is used for still images, movies, or both.

  Still Images : Indicates that the function is used when shooting or viewing still images.

  Movies : Indicates that the function is used when shooting or viewing movies.



① Tripod socket
② Memory card/battery cover
③ Memory card/battery cover lock
④ Waterproof seal
⑤ MENU button
⑥ Release button
⑦ Strap mount
⑧ Terminal cover
⑨ Terminal cover lock
⑩ Waterproof seal
⑪ AV OUT (Audio/video output) / DIGITAL terminal
⑫ HDMI™ terminal
⑬ DC IN (Power input) terminal
⑭ Screen (LCD monitor)
⑮ Zoom button
Shooting: ▣ (wide angle)
Playback: ▦ (index)
⑯ Speaker
⑰ Zoom button
Shooting: [♠] (telephoto)
Playback: 🔍 (magnify)
⑱ Movie button
⑲ Mode selection / Up button
⑳ ✿ (Macro) / Left button
㉑ FUNC./SET button
㉒ ⚡ (Flash) / Right button
㉓ DISP. (Display) / Down button

- In this guide, icons are used to represent the corresponding camera buttons on which they appear, or which they resemble.
- The following camera buttons are represented by icons.
  ▲ Up button ⑲ on back
  ◀ Left button ⑳ on back
  (FUNC. SET) FUNC./SET button ㉑ on back
  ▶ Right button ㉒ on back
  ▼ Down button ㉓ on back
- On-screen text is indicated in brackets.

Contents

Contents: Basic Operations

Shoot

Shooting people well

Matching specific scenes

Applying special effects

View

Shoot/View Movies

Print

Save

Safety Precautions

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

⚠ **Warning**	Denotes the possibility of serious injury or death.

- **Do not trigger the flash in close proximity to people’s 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.

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

This could result in electrical shock or fire.

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

If the battery charger becomes wet, unplug it from the outlet and consult your camera distributor or a Canon Customer Support Help Desk.

- **Use only the recommended battery.**
- **Do not place the battery near or in direct flame.**
- **Unplug the power cord periodically, and using a dry cloth, wipe away any dust and dirt that has collected on the plug, the exterior of the power outlet, and the surrounding area.**
- **Do not handle the power cord with wet hands.**
- **Do not use the equipment in a manner that exceeds the rated capacity of the electrical outlet or wiring accessories. Do not use if the power cord or plug are damaged, or not fully plugged into the outlet.**
- **Do not allow dirt or metal objects (such as pins or keys) to contact the terminals or plug.**

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

- **Turn the camera off in places where camera use is prohibited.**

The electromagnetic waves emitted by the camera may interfere with the operation of electronic instruments and other devices. Exercise adequate caution when using the camera in places where use of electronic devices is restricted, such as inside airplanes and medical facilities.

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

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

- **Do not use the optional shoulder strap or carabiner strap while under water.**

Straps that accidentally wrap around your neck pose a risk of asphyxiation.

⚠ Caution

Denotes the possibility of injury.

- **When holding the camera by the strap, be careful not to bang it, subject it to strong impacts or shocks, or let it get caught on other objects.**

This could lead to injury or damage the camera.

- **Be careful not to subject the screen to strong impacts.**

If the screen cracks, injury may result from the broken fragments.

- **When using the flash, be careful not to cover it with your fingers or clothing.**

This could result in burns or damage to the flash.

- **Avoid using, placing or storing the product in the following places:**
  - **Places subject to strong sunlight**
  - **Places subject to temperatures above 40 °C (104 °F)**
  - **Humid or dusty areas**

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

- **Viewing images on the camera screen for prolonged periods may cause discomfort.**

Caution

Denotes the possibility of damage to the equipment.

- **Do not aim the camera at bright light sources (such as the sun on a clear day).**

Doing so may damage the image sensor.

- **This camera cannot be used underwater at a depth greater than 10 m (33 ft.), or in hot springs and other mineralized waters.**

This may cause damage or water leakage.

- **When using the camera on a beach or at a windy location, be careful not to allow dust or sand to enter the camera.**

This may cause the product to malfunction.

- **In regular use, small amounts of smoke may be emitted from the flash.**

This is due to the high intensity of the flash burning dust and foreign materials stuck to the front of the unit. Please use a cotton swab to remove dirt, dust or other foreign matter from the flash to prevent heat build-up and damage to the unit.

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

If the battery is left inside the camera, damage caused by leakage may occur.

- **Keep the covers closed when the camera is not in use.**

Storing the camera with the covers open may damage it if liquid or dust gets inside.

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

Contacting other metal materials may lead to fire or explosions.

- **Unplug the battery charger from the power outlet after charging is complete, or when you are not using it.**
- **Do not place anything, such as cloth, on top of the battery charger while it is charging.**

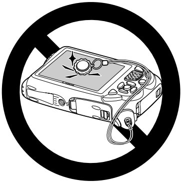
Leaving the unit plugged in for a long period of time may cause it to overheat and distort, resulting in fire.

- **Do not place the battery near pets.**

Pets biting the battery could cause leakage, overheating or explosion, resulting in fire or damage.

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

Doing so may cause malfunctions or damage the screen.



Cautions When Using this Waterproof, Dustproof, and Shock Resistant Camera

You can enjoy using this camera in the rain, on the beach, while skiing, or underwater within a depth of 10 m (33 ft.). However, it can not be used in hot springs or other mineralized waters. Please be aware that Canon is not liable for any damage to the camera, batteries, memory cards, or saved data caused by water leakage due to mistaken operation of the product. This camera is subjected to Canon standard testing. However, it is not guaranteed that this camera will not damage or malfunction. (For more information about waterproof, dustproof, and shock resistant specifications, see "Specifications" (p. 36).)

Cautions Before Using This Camera

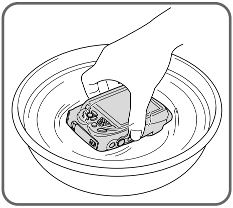
- Before shooting with the camera, confirm that the memory card/battery cover and terminal cover (p. 5) are fully closed (pp. 18, 23). If either cover is not fully closed, water may enter the camera and damage it.
- Be sure that the waterproof seals (p. 17) inside the covers and the areas around them are kept free from scratches and foreign objects such as sand, dirt, or hair. Not doing so may result in leaks. If the waterproof seal is damaged, do not use the camera underwater.
- Avoid opening and closing the covers while on the beach or near water. Change memory cards and batteries in a dry place protected from sea breezes.
- Do not open the covers if the camera is wet. If there is moisture on the camera, wipe it off with a soft, dry cloth until it is completely dry.

Cautions While Using This Camera

- Do not use this camera in water deeper than 10 m (33 ft.).
- Do not expose the camera to strong impacts or shocks while underwater. Impacts could cause the covers to open or otherwise compromise the waterproof ability of the camera.
- This camera is deemed shock resistant by Canon standard testing (see "Specifications" (p. 36)). However, strong impacts could scratch the camera or cause it to malfunction. Do not allow the camera to fall a great distance or expose it to excessive shocks.
- Waterproof performance is not ensured if the camera is dropped or subjected to impact.

Cautions After Using This Camera and Camera Care

- Rinse off the camera if there is liquid or sand on it after use. The liquid may soil or corrode the camera, and wiping the camera when sand is on it may scratch it.
- After using the camera under water (especially in the ocean) or in sandy or dirty environments, promptly rinse it well under fresh water, such as tap water no warmer than 30 °C (86 °F).
  Foreign material or salty residue on the camera may corrode metal parts or cause buttons to stick.



- After washing the camera, dry it completely by wiping it with a soft, dry cloth. After washing and drying the camera, make sure the buttons and covers do not stick when pressed or opened and closed.
- To avoid damaging the waterproof seals and causing leaks, keep the seals free of sand or other foreign material, and do not apply chemicals or grease to the seals.

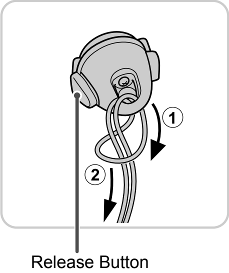
About the Waterproof Seals

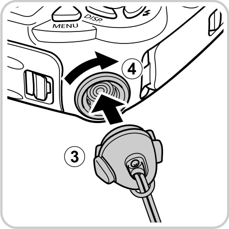
- Scratches or cracks in the waterproof seals could cause damage or leaks. Contact the closest *Canon Customer Support Help Desk* for immediate repair. The waterproof seal will be replaced on a chargeable basis.

Initial Preparations

Prepare for shooting as follows.

Attaching the Strap

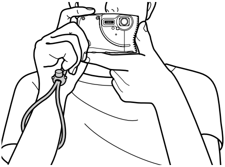




Attach the strap.

- After attaching the strap to the strap mount, insert the strap mount into the socket on the camera and turn until it clicks.
- To remove the strap mount, hold the release button while turning the strap mount counterclockwise.

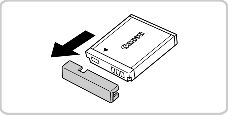
Holding the Camera



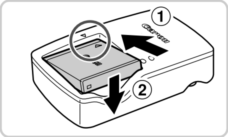
- To avoid dropping the camera, be sure to place the strap around your wrist when shooting. This camera will sink in water.
- When shooting, keep your arms close to your body and hold the camera securely to prevent it from moving. Do not rest your fingers on the flash.

Charging the Battery

Before use, charge the battery with the included charger. Be sure to charge the battery initially, because the camera is not sold with the battery charged.

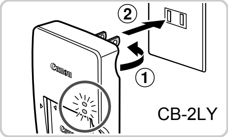


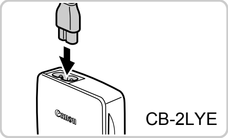
1 Remove the cover.



2 Insert the battery.

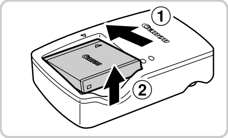
- After aligning the ▲ marks on the battery and charger, insert the battery by pushing it in (①) and down (②).





3 Charge the battery.

- **For CB-2LY:** Flip out the plug (①) and plug the charger into a power outlet (②).
- **For CB-2LYE:** Plug the power cord into the charger, then plug the other end into a power outlet.
- ▶ The charging lamp turns orange and charging begins.
- ▶ When the charging is finished, the lamp turns green.



4 Remove the battery.

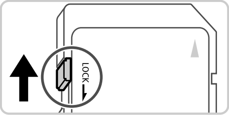
- After unplugging the battery charger, remove the battery by pushing it in (①) and up (②).

- To protect the battery and keep it in optimal condition, do not charge it continuously for more than 24 hours.
- For battery chargers that use a power cord, do not attach the charger or cord to other objects. Doing so could result in malfunction or damage to the product.

- For details on charging time and the number of shots and recording time possible with a fully charged battery, see “Specifications” (p. 36).

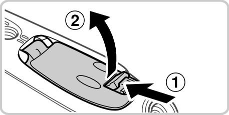
Inserting the Battery and Memory Card

Insert the included battery and a memory card (sold separately).
Note that before using a new memory card (or a memory card formatted in another device), you should format the memory card with this camera (p. 161).



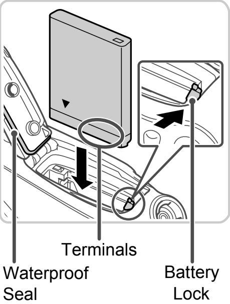
1 Check the card’s write-protect tab.

- Recording is not possible on memory cards with a write-protect tab when the tab is in the locked (downward) position. Slide the tab up until it clicks into the unlocked position.



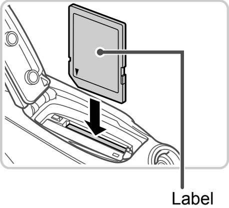
2 Open the cover.

- Slide the switch (①) and open the cover (②).



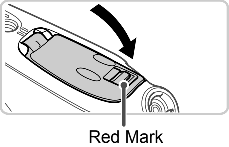
3 Insert the battery.

- While pressing the battery lock in the direction of the arrow, insert the battery facing as shown and push it in until it clicks into the locked position.
- Batteries inserted facing the wrong way cannot be locked into the correct position. Always confirm that the battery is facing the right way and locks when inserted.
- Be careful not to damage the waterproof seal when inserting the battery.



4 Insert the memory card.

- Insert the memory card facing as shown until it clicks into the locked position.
- Make sure the memory card is facing the right way when you insert it. Inserting memory cards facing the wrong way may damage the camera.
- Be careful not to damage the waterproof seal when inserting the memory card.

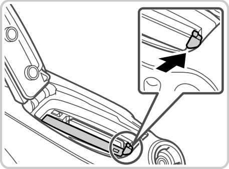


5 Close the cover.

- Lower the cover in the direction of the arrow and press it until it clicks into the closed position.
- Make sure the lock returns to the position shown, with the red mark no longer visible.

- Do not open the covers when the camera is wet or submerged in water. If there is moisture on the camera, wipe it off with a soft, dry cloth until it is completely dry.
- Be sure that the waterproof seals and the areas around them are kept free from scratches and foreign objects such as sand, dirt, or hair. Not doing so may result in leaks.
- Avoid opening and closing the covers while on the beach or near water. Change memory cards and batteries in a dry place protected from sea breezes.

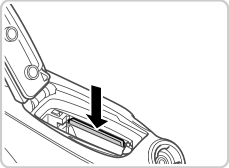
Removing the Battery and Memory Card



Remove the battery.

- Open the cover and press the battery lock in the direction of the arrow.

▶ The battery will pop up.



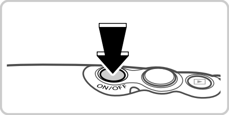
Remove the memory card.

- Push the memory card in until it clicks, and then slowly release it.

▶ The memory card will pop up.

Setting the Date and Time

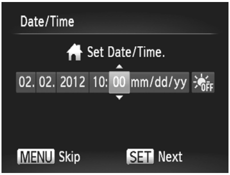
A screen for setting the date and time is displayed the first time you turn the camera on. Be sure to specify the date and time, which is the basis for dates and times added to your images.



1 Turn the camera on.

- Press the ON/OFF button.

▶ The [Date/Time] screen is displayed.

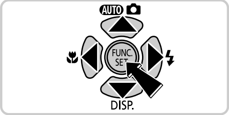


Date/Time

Set Date/Time.

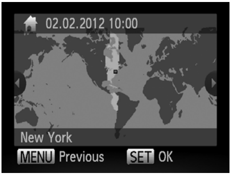
02. 02. 2012 10: 00 mm/dd/yy ☀OFF

MENU Skip SET Next



2 Set the date and time.

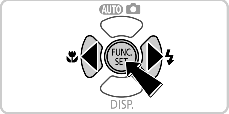
- Press the ◀▶ buttons to choose an option.
- Press the ▲▼ buttons to specify the date and time.
- When finished, press the (FUNC./SET) button.



02.02.2012 10:00

New York

MENU Previous SET OK



3 Set the local time zone.

- Press the ◀▶ buttons to choose your local time zone.

4 Finish the setup process.

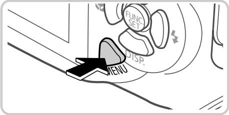
- Press the (FUNC./SET) button when finished. After a confirmation message, the setting screen is no longer displayed.
- To turn off the camera, press the ON/OFF button.

- Unless you set the date, time, and local time zone, the [Date/Time] screen will be displayed each time you turn the camera on. Specify the correct information.

- To set daylight saving time (1 hour ahead), choose ☀OFF in step 2 and then choose ☀ by pressing the ▲▼ buttons.

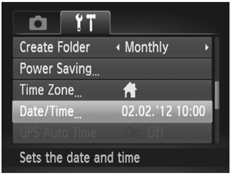
Changing the Date and Time

Adjust the date and time as follows.

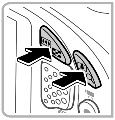


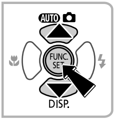
1 Access the camera menu.

- Press the MENU button.



Create Folder ◂ Monthly ▸
Power Saving...
Time Zone... 🏠
Date/Time... 02.02.'12 10:00
GPS Auto Time On Off
Sets the date and time





2 Choose [Date/Time].

- Press the zoom buttons to choose the 🔧 tab.
- Press the ▲▼ buttons to choose [Date/Time], and then press the (FUNC. SET) button.

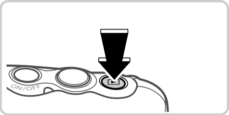
3 Change the date and time.

- Follow step 2 on p. 20 to adjust the settings.
- Press the MENU button to close the menu.

- Date/time settings can be retained for about 3 weeks by the camera's built-in date/time battery (backup battery) after the battery pack is removed.
- The date/time battery will be charged in about 4 hours once you insert a charged battery or connect the camera to an AC adapter kit (sold separately, p. 169), even if the camera is left off.
- Once the date/time battery is depleted, the [Date/Time] screen will be displayed when you turn the camera on. Follow the steps on p. 19 to set the date and time.
- Automatic date and time updating is possible using GPS (p. 56).

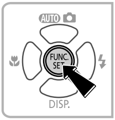
Display Language

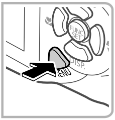
The display language can be changed as needed.



1 Enter Playback mode.

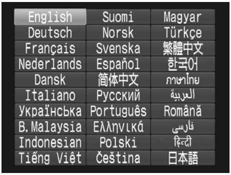
- Press the ▶ button.



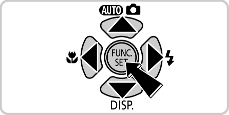


2 Access the setting screen.

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



English	Suomi	Magyar
Deutsch	Norsk	Türkçe
Français	Svenska	繁體中文
Nederlands	Español	한국어
Dansk	简体中文	ภาษาไทย
Italiano	Русский	العربية
Українська	Português	Română
B.Malaysia	Ελληνικά	فارسی
Indonesian	Polski	हिन्दी
Tiếng Việt	Čeština	日本語



3 Set the display language.

- Press the ▲▼◀▶ buttons to choose a language, and then press the FUNC. SET button.
- Once the display language has been set, the setting screen is no longer displayed.

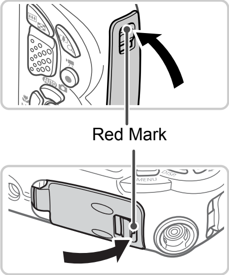
- The current time is displayed if you wait too long in step 2 after pressing the FUNC. SET button before you press the MENU button. In this case, press the FUNC. SET button to dismiss the time display and repeat step 2.
- You can also change the display language by pressing the MENU button and choosing [Language 🗨] on the 🔧 tab.

Trying the Camera Out

Follow these instructions to turn the camera on, shoot still images or movies, and then view them.

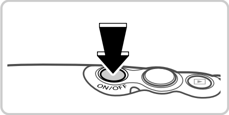
Shooting (Smart Auto)

For fully automatic selection of the optimal settings for specific scenes, simply let the camera determine the subject and shooting conditions.



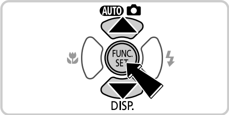
1 Make sure the covers are closed.

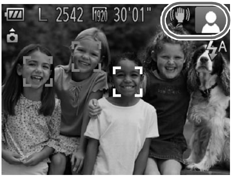
- Make sure that both the memory card/battery cover lock and terminal cover lock return to the positions shown, with the red marks no longer visible.
- If either cover is not fully closed, water may enter the camera when it gets wet, which may damage it.



2 Turn the camera on.

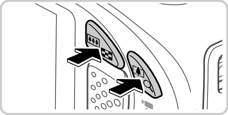
- Press the ON/OFF button.
- ▶ The startup screen is displayed.





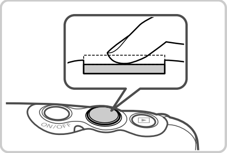
3 Enter AUTO mode.

- Press the ▲ button, press the ▲▼ buttons to choose AUTO, and then press the FUNC. SET button.
- ▶ Icons representing the scene and image stabilization mode are displayed in the upper right of the screen.
- ▶ Frames displayed around any subjects that are detected indicate that they are in focus.



4 Compose the shot.

- To zoom in and enlarge the subject, press the [🌲] (telephoto) zoom button, and to zoom away from the subject, press the 🌲🌲🌲 (wide angle) zoom button.

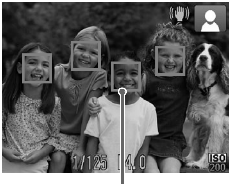


5 Shoot.

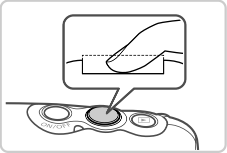
Shooting Still Images

① Focus.

- Press the shutter button lightly, halfway down. The camera beeps twice after focusing, and AF frames are displayed to indicate image areas in focus.



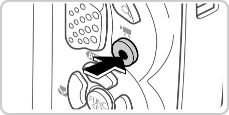
AF Frames



② Shoot.

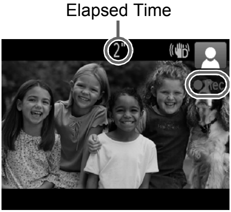
- Press the shutter button all the way down.
- ▶ As the camera shoots, a shutter sound is played, and in low-light conditions, the flash fires automatically.
- ▶ Your shot remains displayed on the screen for about two seconds.
- Even while the shot is displayed, you can take another shot by pressing the shutter button again.

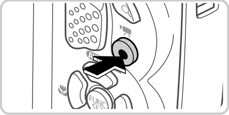
Shooting Movies



① Start shooting.

- Press the movie button. The camera beeps once as recording begins, and [●Rec] is displayed with the elapsed time.
- ▶ Black bars displayed on the top and bottom edges of the screen indicate image areas not recorded.
- Once recording begins, you can take your finger off the movie button.



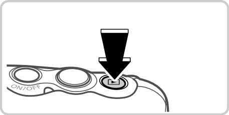


② Finish shooting.

- Press the movie button again to stop shooting. The camera beeps twice as recording stops.
- ▶ Recording will stop automatically when the memory card becomes full.

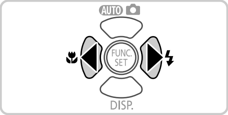
Viewing

After shooting images or movies, you can view them on the screen as follows.



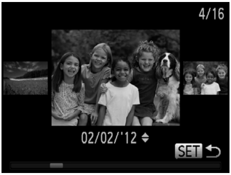
1 Enter Playback mode.

- Press the ▶ button.
- ▶ Your last shot is displayed.

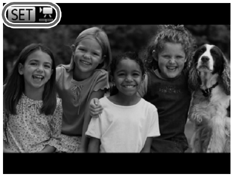


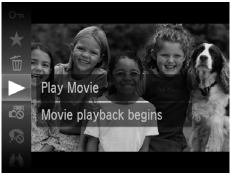
2 Browse through your images.

- To view the previous image, press the ◀ button. To view the next image, press the ▶ button.



- To access Scroll Display mode, press and hold the ◀▶ buttons for at least one second. In this mode, press the ◀▶ buttons to browse through images.
- To return to single-image display, press the (FUNC.SET) button.
- To browse images grouped by shooting date, press the ▲▼ buttons in Scroll Display mode.
- Movies are identified by a SET 🎬 icon. To play movies, go to step 3.





3 Play movies.

- Press the (FUNC.SET) button, press the ▲▼ buttons to choose ▶ , and then press the (FUNC.SET) button again.
- ▷ Playback now begins, and after the movie is finished, SET 🎬 is displayed.
- To adjust the volume, press the ▲▼ buttons.

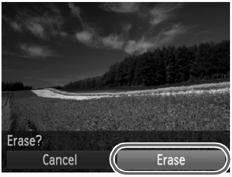
- To switch to Shooting mode from Playback mode, press the shutter button halfway.

Erasing the Images

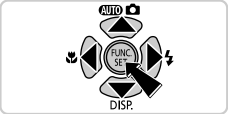
You can choose and erase unneeded images one by one. Be careful when erasing images, because they cannot be recovered.

1 Choose an image to erase.

- Press the ◀▶ buttons to choose an image.



Erase?



2 Erase the image.

- Press the FUNC./SET button, press the ▲▼ buttons to choose 🗑, and then press the FUNC./SET button again.
- After [Erase?] is displayed, press the ◀▶ buttons to choose [Erase], and then press the FUNC./SET button.
- ▶ The current image is now erased.
- To cancel erasure, press the ◀▶ buttons to choose [Cancel], and then press the FUNC./SET button.

- You can also erase all images at once (p. 142).

Included Software, Manuals

The software and the manuals on the included CD-ROMs are introduced below, with instructions for installation, saving images to a computer, and using the manuals.

Features of the Included Software

After installing the software on the CD-ROM, you can do the following things on your computer.

ImageBrowser EX

- Import images and change camera settings
- Manage images: view, search, and organize
- Print and edit images
- Update to the latest software version with the auto update function

Auto Update Function

Using the included software, you can update to the latest version, and download new functions via the Internet (some software excluded). Be sure to install the software on a computer with an Internet connection so you can use this function.

- Internet access is required to use this function, and any ISP account charges and access fees must be paid separately.
- This function may not be available depending on the camera or region you live in.

Manuals

The following manuals are provided on the DIGITAL CAMERA Manuals Disk.

Camera User Guide

Once you are familiar with the information in *Getting Started*, refer to this for a more in-depth understanding of camera operation.

ImageBrowser EX User Guide

Refer to this guide when using the included software.
This guide can be referenced from the ImageBrowser EX Help function.

- Depending on the country or region where you purchased your camera, the *ImageBrowser EX User Guide* may not be accessible from the Help function. In such cases, it will either be included on the CD-ROM bundled with your camera, or you can download the latest version from the Canon website.

System Requirements

The included software can be used on the following computers.

Windows

Operating System	Windows 7 SP1 Windows Vista SP2 Windows XP SP3
Computer	Computers running one of the above operating systems (preinstalled), with an included USB port and Internet connection
Processor	Still images: 1.6 GHz or higher, Movies: Core 2 Duo 2.6 GHz or higher
RAM	Windows 7 (64 bit): 2 GB or more Windows 7 (32 bit), Windows Vista (64 bit, 32 bit): 1 GB or more (still images), 2 GB or more (movies) Windows XP: 512 MB or more (still images), 2 GB or more (movies)
Interfaces	USB
Free Hard Disk Space	440 MB or more*
Display	1024 x 768 resolution or higher

* In Windows XP, Microsoft .NET Framework 3.0 or later (max. 500 MB) must be installed. Installation may take some time, depending on computer performance.

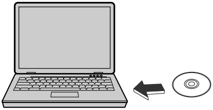
Macintosh

Operating System	Mac OS X 10.6
Computer	Computers running one of the above operating systems (preinstalled), with an included USB port and Internet connection
Processor	Still images: Core Duo 1.83 GHz or higher, Movies: Core 2 Duo 2.6 GHz or higher
RAM	1 GB or more (still images), 2 GB or more (movies)
Interfaces	USB
Free Hard Disk Space	550 MB or more
Display	1024 x 768 resolution or higher

- Check the Canon website for the latest system requirements, including supported OS versions.

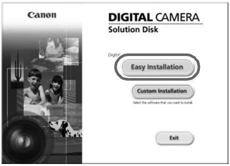
Installing the Software

Windows 7 and Mac OS X 10.6 are used here for the sake of illustration. Using the software auto update function, you can update to the latest version and download new functions via the Internet (some software excluded), so be sure to install the software on a computer with an Internet connection.



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

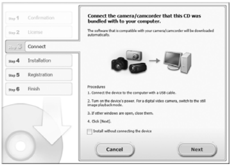
- Insert the included CD-ROM (DIGITAL CAMERA Solution Disk) (p. 2) in the computer's CD-ROM drive.
- On a Macintosh computer, after inserting the disc, double-click the desktop disc icon to open it, and then double-click the icon displayed.



Select the software that you want to install.

2 Begin the installation.

- Click [Easy Installation] and follow the on-screen instructions to complete the installation process.



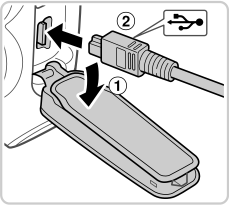
Connect the camera/camcorder that this CD was bundled with to your computer.

The software that is compatible with your camera/camcorder will be downloaded automatically.

Procedures

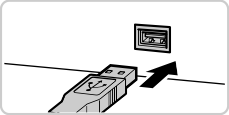
1. Connect the device to the computer with a USB cable.
2. Turn on the device's power. For a digital video camera, switch to the still image playbackmode.
3. If other windows are open, close them.
4. Click [Next].

☐ Install without connecting the device



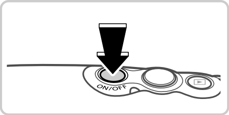
3 When a message is displayed prompting you to connect the camera, connect it to a computer.

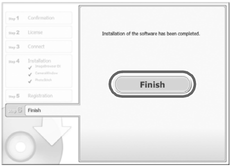
- With the camera turned off, open the cover (①). With the smaller plug of the included interface cable (p. 2) in the orientation shown, insert the plug fully into the camera terminal (②).



- Insert the larger plug of the interface cable in the computer’s USB port. For details about USB connections on the computer, refer to the computer user manual.

4 Install the files.





Installation of the software has been completed.

- Turn the camera on, and follow the on-screen instructions to complete the installation process.

▶ The software will connect to the Internet to update to the latest version and download new functions. Installation may take some time, depending on computer performance and the Internet connection.

- Click [Finish] or [Restart] on the screen after installation and remove the CD-ROM when the desktop is displayed.
- Turn the camera off and disconnect the cable.

- When not connected to the Internet, there are the following limitations.
  - The screen in step 3 will not be displayed.
  - Some functions may not be installed.
  - The first time you connect the camera to the computer, drivers will be installed, so it may take a few minutes until camera images are accessible.
- If you have several cameras that were bundled with ImageBrowser EX on the included CD-ROMs, be sure to use each camera with their included CD-ROM and follow the on-screen installation instructions for each. Doing so will ensure that each camera will receive the correct updates and new functions via the auto update function.

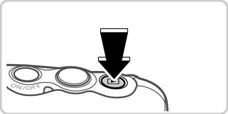
Saving Images to a Computer

Windows 7 and Mac OS X 10.6 are used here for the sake of illustration.

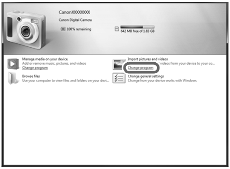
1 Connect the camera to the computer.

- Follow step 3 on p. 30 to connect the camera to a computer.

2 Turn the camera on to access CameraWindow.



- Press the ▶ button to turn the camera on.
- On a Macintosh computer, CameraWindow is displayed when a connection is established between the camera and computer.
- For Windows, follow the steps introduced below.
- In the screen that displays, click the 🖼 link to modify the program.



CanonXXXXXXX
Canon Digital Camera
100% remaining
642 MB free of 1.83 GB

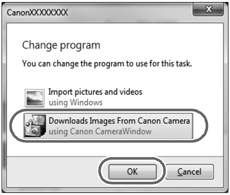
Manage media on your device
Add or remove music, pictures, and videos
Change program

Import pictures and videos
…videos from your device to your co...
Change program

Browse files
Use your computer to view files and folders on your devi...

Change general settings
Change how your device works with Windows

- Choose [Downloads Images From Canon Camera using Canon CameraWindow] and then click [OK].



CanonXXXXXXX

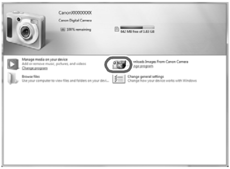
Change program

You can change the program to use for this task.

Import pictures and videos
using Windows

Downloads Images From Canon Camera
using Canon CameraWindow

- Double click 📷.



CanonXXXXXXX
Canon Digital Camera
100% remaining
642 MB free of 1.83 GB

Manage media on your device
Add or remove music, pictures, and videos
Change program

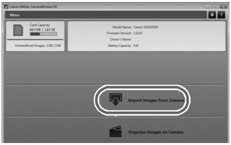
…nloads Images From Canon Camera
…nge program

Browse files
Use your computer to view files and folders on your devi...

Change general settings
Change how your device works with Windows

3 Save the images to the computer.

CameraWindow


Canon Utilities CameraWindow DC
Menu
Import Images from Camera
Organize Images on Camera

Card Capacity: 663 MB / 1.83 GB

Untransferred Images: 238 / 238

Model Name: Canon XXXXXXXX

Firmware Version: 1.0.0.0

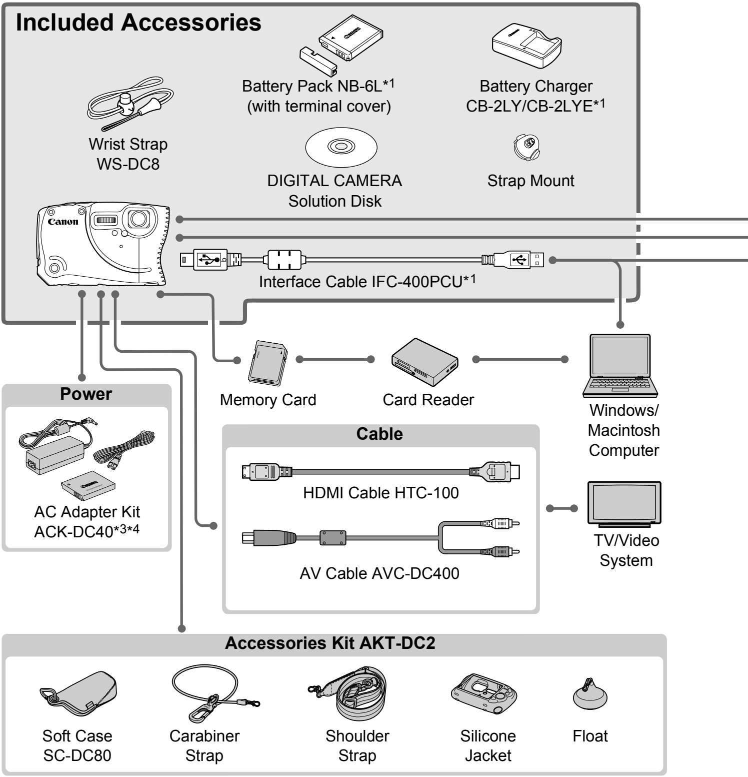
Owner's Name:

Battery Capacity: Full

- Click [Import Images from Camera], and then click [Import Untransferred Images].
- ▶ Images are now saved to the Pictures folder on the computer, in separate folders named by date.
- After images are saved, close CameraWindow, press the ▶ button to turn the camera off, and unplug the cable.
- For instructions on viewing images on a computer, refer to the *ImageBrowser EX User Guide* (p. 28).

- In Windows 7, if the screen in step 2 is not displayed, click the 📷 icon in the taskbar.
- To start CameraWindow in Windows Vista or XP, click [Downloads Images From Canon Camera using Canon CameraWindow] on the screen displayed when you turn the camera on in step 2. If CameraWindow is not displayed, click the [Start] menu and choose [All Programs] ▶ [Canon Utilities] ▶ [CameraWindow] ▶ [CameraWindow].
- On a Macintosh computer, if CameraWindow is not displayed after step 2, click the [CameraWindow] icon in the Dock (the bar at the bottom of the desktop).
- Although you can save images to a computer simply by connecting your camera to the computer without using the included software, the following limitations apply.
  - It may take a few minutes after you connect the camera to the computer until camera images are accessible.
  - Images shot in vertical orientation may be saved in horizontal orientation.
  - Image protection settings may be cleared from images saved to a computer.
  - Some problems may occur when saving images or image information, depending on the operating system version, the software in use, or image file sizes.
  - GPS log files (p. 53) may not be saved correctly.
  - Some functions provided by the included software may not be available, such as editing movies or returning images to the camera.

Accessories



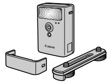
*1 Also available for purchase separately.

*2 High-Power Flash HF-DC1 also supported.

*3 The included DC coupler is not used.

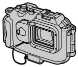
*4 These accessories can also be used with the camera: ACK-DC10, ACK-DC30, ACK-DC60, ACK-DC70, ACK-DC80, and ACK-DC90.

Flash Unit

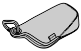


High-Power Flash
HF-DC2[*2]

Cases

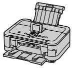


Waterproof Case
WP-DC45



Soft Case
SC-DC80

Canon PictBridge-Compatible Printers



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.

Specifications

Camera Effective Pixels	Approx. 12.1 million pixels
Lens Focal Length	5x zoom: 5.0 (W) – 25.0 (T) mm (35mm film equivalent: 28 (W) – 140 (T) mm)
Waterproof Capability	IEC/JIS protection class "IPX8" equivalent*1 For use within a depth of 10 meters up to 60 minutes.
Dustproof Capability	IEC/JIS protection class "IP6X" equivalent*1
Shock Resistant Capability	Canon standard based on MIL Standard 810F Method 516.5 Selecting Procedure IV (A US Defense Standard)*1*2 cleared
LCD Monitor	7.5 cm (3.0 in.) color TFT LCD Effective Pixels: Approx. 461,000 pixels
File Formats	Design rule for Camera File system, DPOF (version 1.1) compliant
Data Types	Still Images: Exif 2.3 (JPEG) Movies: MOV (H.264 video data, Linear PCM (2 channel monaural) audio data) GPS log files: NMEA 0183 message format compliant
Interfaces	Hi-speed USB HDMI output Analog audio output (monaural) Analog video output (NTSC/PAL)
Power	Battery Pack NB-6L AC Adapter Kit ACK-DC40
Operating Temperature*3	-10 – 40 °C (14 – 104 °F)
Dimensions (Based on CIPA Guidelines)	112.3 x 70.8 x 28.0 mm (4.42 x 2.79 x 1.10 in.)
Weight (Based on CIPA Guidelines)	Approx. 228 g (approx. 8.04 oz.; including battery and memory card) Approx. 205 g (approx. 7.23 oz.; camera body only)

*1 The camera is subjected to Canon standard testing conditions. However, it is not guaranteed that this camera will not be damaged or malfunction.

*2 Testing Conditions:
Drop height: 1.5 m (5 ft.).
Drop surface: Wood.
Drop direction: Each surface (6 surfaces), each angle (4 angles) for a total of 10.
Number of drops: Each surface and each angle 3 times for a total of 30.

*3 Performance of the NB-6L battery pack may decrease at temperatures between -10 to 0 °C (14 to 32 °F), as this is outside of the recommended temperature range. However, use of the battery is possible.

Number of Shots/Recording Time, Playback Time

Number of Shots		Approx. 280
Movie Recording Time*1		Approx. 1 hour
	Continuous Shooting*2	Approx. 1 hr. 40 min.
Playback Time		Approx. 5 hours

*1 Time under default camera settings, when normal operations are performed, such as shooting, pausing, turning the camera on and off, and zooming.

*2 Time available when shooting the maximum movie length (until recording stops automatically) repeatedly.

- The number of shots that can be taken is based on measurement guidelines of the Camera & Imaging Products Association (CIPA).
- Under some shooting conditions, the number of shots and recording time may be less than mentioned above.
- Number of shots/time with a fully charged battery.

Number of 4:3 Shots per Memory Card

Resolution (Pixels)		**No. Shots per Memory Card (Approx.)**	
		8 GB	**32 GB**
L (Large)	12M/4000x3000	2505	10115
M1 (Medium 1)	6M/2816x2112	4723	19064
M2 (Medium 2)	2M/1600x1200	12927	52176
S (Small)	0.3M/640x480	40937	165225

- These values are measured according to Canon standards and may change depending on the subject, memory card and camera settings.
- Table values are based on images with a 4:3 aspect ratio. Changing the aspect ratio (see p. 71) will enable more shots, because less data is used per image than for 4:3 images. However, with M2, 16:9 images have a resolution of 1920 x 1080 pixels, which requires more data than for 4:3 images.

Recording Time per Memory Card

Image Quality	Recording Time per Memory Card	
	8 GB	32 GB
1920	29 min. 39 sec.	1 hr. 59 min. 43 sec.
1280	42 min. 11 sec.*1	2 hr. 50 min. 19 sec.*2
640	1 hr. 28 min. 59 sec.	5 hr. 59 min. 10 sec.
120	26 min. 24 sec.	1 hr. 46 min. 35 sec.
240	52 min. 28 sec.	3 hr. 31 min. 49 sec.

*1 27 min. 39 sec. for iFrame movies (see p. 101).

*2 1 hr. 51 min. 37 sec. for iFrame movies (see p. 101).

- These values are measured according to Canon standards and may change depending on the subject, memory card and camera settings.
- Recording will automatically stop when the file size of an individual clip being recorded reaches 4 GB, or when the recording time reaches approximately 29 minutes and 59 seconds (for 1920 or 1280 movies) or approximately 1 hour (for 640 movies).
- On some memory cards, recording may stop before the maximum clip length has been reached. Speed Class 6 or higher memory cards are recommended.

Flash Range

Maximum wide angle (🌲🌲🌲)	30 cm – 3.5 m (12 in. – 11 ft.)
Maximum telephoto (🌲)	1.0 – 3.0 m (3.3 – 9.8 ft.)

Shooting Range

Shooting Mode	Focusing Range	Maximum Wide Angle (🌲🌲🌲)	Maximum Telephoto (🌲)
AUTO	–	1 cm (0.4 in.) – infinity	1 m (3.3 ft.) – infinity
🐠	🌷 MF	1 – 50 cm (0.4 in. – 1.6 ft.)	–
Other modes	▲	5 cm (2.0 in.) – infinity	1 m (3.3 ft.) – infinity
	🌷*	1 – 50 cm (0.4 in. – 1.6 ft.)	–
	MF*	1 cm (0.4 in.) – infinity	1 m (3.3 ft.) – infinity

* Not available in some shooting modes.

- Approximately 1.3x for underwater shots.

Continuous Shooting Speed

Approx. 1.9 shots/sec.

Shutter Speed

AUTO mode, automatically set range	1 – 1/1600 sec.
Range in all shooting modes	15 – 1/1600 sec.

Aperture

f/number	f/3.9, f/8.0 (W), f/4.8, f/10 (T)

Battery Pack NB-6L

Type	Rechargeable lithium-ion battery
Rated Voltage	3.7 V DC
Rated Capacity	1000 mAh
Charging Cycles	Approx. 300 times
Operating Temperature	0 – 40 °C (32 – 104 °F)
Dimensions	34.4 x 41.8 x 6.9 mm (1.35 x 1.65 x 0.27 in.)
Weight	Approx. 21 g (approx. 0.74 oz.)

Battery Charger CB-2LY/CB-2LYE

Rated Input	100 – 240 V AC (50/60 Hz), 0.085 A (100 V) – 0.05 A (240 V)
Rated Output	4.2 V DC, 0.7 A
Charging Time	Approx. 1 hour 55 min. (when using NB-6L)
Charge Indicator	Charging: orange / Fully charged: green (two-indicator system)
Operating Temperature	0 – 40 °C (32 – 104 °F)
Dimensions	58.6 x 86.4 x 24.1 mm (2.31 x 3.40 x 0.95 in.)
Weight	Approx. 70 g (approx. 2.47 oz.) (CB-2LY) Approx. 61 g (approx. 2.15 oz.) (CB-2LYE, excluding power cord)

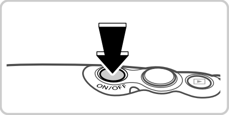
- All data is based on tests by Canon.
- Camera specifications or appearance are subject to change without notice.

1

Camera Basics

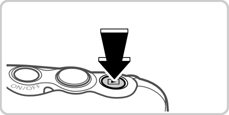
Basic camera operations and features

On/Off



Shooting Mode

- Press the ON/OFF button to turn the camera on and prepare for shooting.
- To turn the camera off, press the ON/OFF button again.



Playback Mode

- Press the ▶ button to turn the camera on and view your shots.
- To turn the camera off, press the ▶ button again.

- To switch to Playback mode from Shooting mode, press the ▶ button.
- To switch to Shooting mode from Playback mode, press the shutter button halfway (p. 43).

Power-Saving Features (Auto Power Down)

As a way to conserve battery power, the camera automatically deactivates the screen and then turns itself off after a specific period of inactivity.

Power Saving in Shooting Mode

The screen will turn off about a minute after the camera is last operated, and the indicator is lit in green. In about two more minutes, the camera turns itself off. To activate the screen and prepare for shooting when the screen is off and the indicator is green, press the shutter button halfway (p. 43).

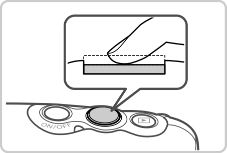
Power Saving in Playback Mode

The camera turns itself off automatically after about five minutes of inactivity.

- You can deactivate these power-saving features if you prefer (p. 164).
- You can also adjust the timing of screen deactivation (p. 164).

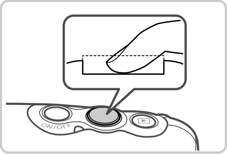
Shutter Button

To ensure your shots are in focus, always press the shutter button lightly (halfway) initially. Once the subject is in focus, press the button all the way down to shoot.
In this manual, shutter button operations are described as pressing the button *halfway* or *all the way down*.



1 **Press halfway. (Press lightly to focus.)**

- Press the shutter button halfway. The camera beeps twice, and AF frames are displayed around image areas in focus.



2 **Press all the way down. (From the halfway position, press fully to shoot.)**

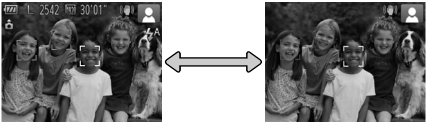
▶ The camera shoots, as a shutter sound is played.

- Keep the camera still until the shutter sound ends.

- Images may be out of focus if you shoot without initially pressing the shutter button halfway.
- Length of shutter sound playback varies depending on the time required for the shot. It may take longer in some shooting scenes, and images will be blurry if you move the camera (or the subject moves) before the shutter sound ends.

Shooting Display Options

Press the ▼ button to view other information on the screen, or to hide the information. For details on the information displayed, see p. 204.



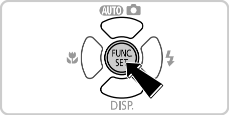
Information is displayed

No information is displayed

- Screen brightness is automatically increased by the night display function when you are shooting under low light, making it easier to check how shots are composed. However, on-screen image brightness may not match the brightness of your shots. Note that any on-screen image distortion or jerky subject motion will not affect recorded images.
- For playback display options, see p. 129.

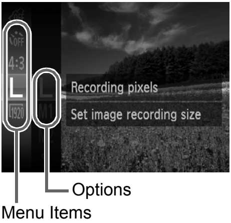
FUNC. Menu

Configure commonly used functions through the FUNC. menu as follows. Note that menu items and options vary depending on the shooting mode (pp. 210 – 211) or playback mode (p. 215).



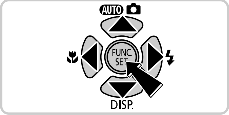
1 Access the FUNC. menu.

- Press the (FUNC. SET) button.



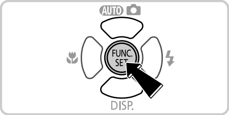
2 Choose a menu item.

- Press the ▲▼ buttons to choose a menu item, and then press the (FUNC. SET) or ▶ button.
- In some menu items, functions can be specified simply by pressing the (FUNC. SET) or ▶ button, or another screen is displayed for configuring the function.



3 Choose an option.

- Press the ▲▼ buttons to choose an option.
- Options labeled with a MENU icon can be configured by pressing the MENU button.
- To return to the menu items, press the ◀ button.



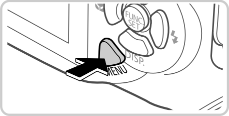
4 Finish the setup process.

- Press the (FUNC. SET) button.
- ▶ The screen before you pressed the (FUNC. SET) button in step 1 is displayed again, showing the option you configured.

- To undo any accidental setting changes, you can restore the camera's default settings (p. 166).

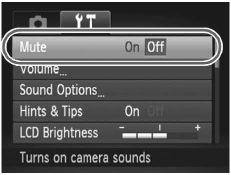
MENU Menu

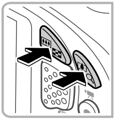
Configure a variety of camera functions through other menus as follows. Menu items are grouped by purpose on tabs, such as shooting (📷), playback (▶), and so on. Note that available settings vary depending on the selected shooting or playback mode (pp. 212 – 215).

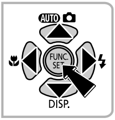


1 Access the menu.

- Press the MENU button.





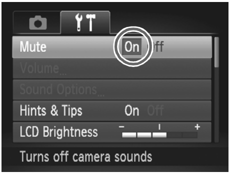


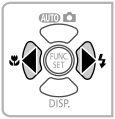
2 Choose a tab.

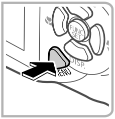
- Press the zoom buttons or the ◀▶ buttons to choose a tab.

3 Choose a setting.

- Press the ▲▼ buttons to choose a setting.
- To choose settings with options not shown, first press the FUNC. SET or ▶ button to switch screens, and then press the ▲▼ buttons to select the setting.
- Press the MENU button to restore the previous screen.







4 Choose an option.

- Press the ◀▶ buttons to choose an option.

5 Finish the setup process.

- Press the MENU button to return to the screen displayed before you pressed the MENU button in step 1.

- To undo any accidental setting changes, you can restore the camera's default settings (p. 166).

Indicator Display

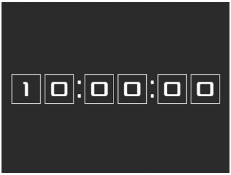
The indicator on the top of the camera (p. 4) lights up or blinks depending on the camera status.

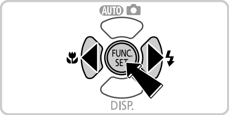
Color	Indicator Status	Camera Status
Green	On	Connected to a computer (p. 32), or display off
	Blinking	Starting up, recording/reading/transmitting images, shooting long exposures (p. 98), or logger active (p. 53)

- When the indicator blinks green, never turn the camera off, open the memory card/battery cover, or shake or jolt the camera, which may corrupt images or damage the camera or memory card.

Clock

You can check the current time.





- Press and hold the FUNC./SET button.
- ▶ The current time appears.
- If you hold the camera vertically while using the clock function, it will switch to vertical display. Press the ◀▶ buttons to change the display color.
- Press the FUNC./SET button again to cancel the clock display.

- When the camera is off, press and hold the FUNC./SET button, then press the ON/OFF button to display the clock.

2

Using GPS Function

Basic GPS operations and features

Using GPS Function

Camera location information (latitude, longitude, and elevation) based on acquired GPS signals can be added to the still images and movies you shoot, or this information can be logged separately. In addition to geotagging, the camera clock can be updated automatically.

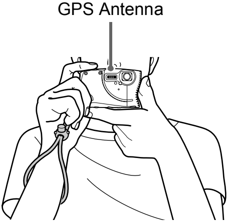
Before using GPS functions, make sure the date, time, and local time zone on the camera are set correctly, as described in “Setting the Date and Time” (p. 19).

GPS: Global Positioning System

When using GPS functions, keep the following points in mind.

- In certain countries and regions, the use of GPS may be restricted. Therefore, be sure to use GPS in accordance with the laws and regulations of your country or region. Be particularly careful when traveling outside your home country.
- Be careful about using GPS features where the operation of electronic devices is restricted, because the camera will receive GPS signals.
- Others may be able to locate or identify you by using location data in your geotagged still images or movies. Be careful when sharing these images or GPS log files with others, as when posting images online where many others can view them.

Where to Use GPS, and How to Hold the Camera



- Use the camera outside, where there is an unobstructed view of the sky. (GPS functions will not work correctly indoors or in other areas away from GPS coverage (p. 51).)
- Hold the camera correctly, as shown, for easier GPS signal reception.
- Keep your fingers or other objects off the GPS antenna.

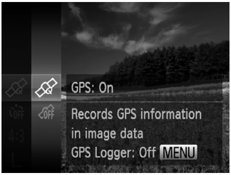
How to Carry the Camera When Using the Logger Function

For better GPS signal reception, try to keep the GPS antenna pointing up, toward the sky. When carrying the camera in a bag, put it in the bag with the GPS antenna pointing up, and try to put the camera in an outer section of bag.

Places With Poor GPS Coverage

- Location information may not be recorded, or inaccurate information may be recorded where GPS signal coverage is poor, such as in the following places.
  ●Indoors ●underground ●near buildings or in valleys ●in tunnels or forests ●near high-voltage power lines or mobile phones operating on the 1.5 GHz band ●inside a bag or suitcase ●underwater ●when traveling across great distances ●when traveling through different environments
- Even in other places, GPS satellite movement may interfere with geotagging and cause missing or inaccurate location information, or the information may indicate that the camera has been used elsewhere even if it has not.
- GPS signal reception may take longer after battery replacement, or when you have not used GPS functions for some time.

Using GPS Function



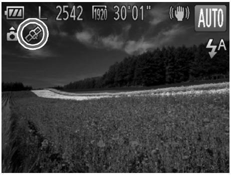
GPS: On

Records GPS information in image data

GPS Logger: Off MENU

1 Configure the setting.

- Press the FUNC. SET button, choose 🛰OFF in the menu, and choose 🛰 (p. 45).
- To restore the original setting, repeat this process but choose 🛰OFF.



2 Check the reception status.

- Use the camera outside, where there is an unobstructed view of the sky. (GPS functions will not work correctly indoors or in other areas away from GPS coverage (p. 51).)
- Check GPS reception status as shown on the screen.

Reception Status Display

🛰 (on)	GPS signal received. Location can be recorded.*
🛰 (blinking)	Looking for GPS signal.*
🛰⃠ (on)	No GPS signal.

* When you have activated the logger (p. 53), ᛘᛘᛘ is also displayed.

Tips When 🛰⃠ is Displayed

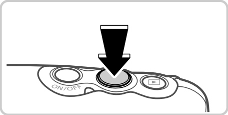
- When GPS signal reception is not possible indoors or in other places away from coverage (p. 51), try going outside where there is an unobstructed view of the sky. Hold the camera correctly (p. 50) and point the GPS antenna up at the sky.
- 🛰 will normally be displayed within a few minutes when the camera is used in areas with ample GPS coverage, such as outdoor areas with an unobstructed view of the sky. If 🛰 is not displayed, move to an area without obstructions (such as buildings) between the camera and GPS satellites and wait a few minutes until it appears.
- You can also configure GPS settings from the menu (p. 46).

Geotagging Images While Shooting

The still images and movies you shoot can be geotagged, automatically adding latitude, longitude, and elevation information. You can review the recorded location information on the camera (p. 130). Using the provided software (p. 2), you can also view the locations on a map, with the still images and movies shown next to them.

1 Activate GPS.

- Follow steps 1 – 2 on p. 51 to configure the setting.



2 Shoot.

- The still images and movies you shoot are now geotagged, and you can review the location information as described in “GPS Information Display” (p. 130).

- In addition to geotagging your shots, you can also tag shots with the shooting date and time (p. 130) in UTC format (p. 56).
- Geotagging applies the initial camera location and shooting date and time, as acquired when you begin shooting a movie.
- For movies made by using Movie Digest (p. 94), geotagging applies the initial camera location and shooting date and time, as acquired for the first movie shot that day.

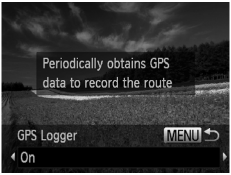
Logging Camera Location Data

You can keep a record of where the camera was taken by using location information acquired from GPS satellite signals over a period of time. Daily location and time data is logged to a file, separate from image data. Log files can be reviewed on the camera (p. 55), and with the provided software (p. 2), you can use log files to follow the route taken with the camera on a map. Since the date will be updated, and information location will be logged continually whether or not the camera is on, battery life will be reduced even when the camera is off. You may find the battery to be nearly depleted when turning the camera on. Charge the battery as needed, or keep a spare charged battery with you.

1 Activate GPS.

- Follow steps 1 – 2 on p. 51 to configure the setting.

2 Configure the setting.



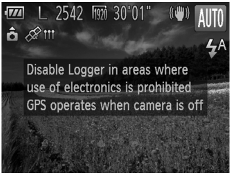
Periodically obtains GPS data to record the route

GPS Logger

◀ On ▶

- Press the MENU button, and then press the ◀▶ buttons to choose [On].
- To restore the original setting, repeat this process but choose [Off].

3 Finish the setup process.



Disable Logger in areas where use of electronics is prohibited GPS operates when camera is off

- When you press the (FUNC. SET) button, a message about the logger is displayed. Be sure to read the message.
- ▶ The 📶 icon shown with your shots indicates the GPS reception status at that time (p. 51).
- ▶ The logger function will operate, and the date, time and location information based on signals acquired from GPS satellites will be logged to the camera.
- The logger will continue to function even when the camera is turned off.

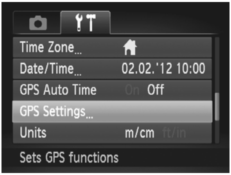
4 Save the GPS log files to the memory card.

- When you turn off the camera, a message about the logger is displayed. The location information, date and time will be saved to the memory card. This information will not remain on the camera.
- If the camera is off and you want to remove the memory card when the logger is being used, turn the camera on, then turn it off again before removing the memory card.
- The location information, date and time will be saved to the memory card when you do any of the following things.
  - Display the log files
  - Display the date/time setting screen
  - Display the time zone setting screen

- Removing the battery after step 4 will deactivate the logger. To reactivate the logger after battery replacement, turn the camera on and then off again.
- Saving GPS log files is not possible when the memory card write-protect tab is in the locked position. Make sure the tab is set to the unlocked side.
- Location information, date and time will be saved to the memory card when the camera is turned off or when displaying log files (p. 55). For this reason, if the camera is off and you want to remove the memory card when the logger is being used, turn the camera on, then turn it off again before removing the memory card.
- When using the logger function, exercise caution when turning the camera over to another person, as the date and time, and logged location information will remain on the camera until it is saved to a memory card (even if the battery is depleted).
- Be careful when formatting memory cards (p. 161), because the GPS log file will also be erased.
- You can also configure logger settings from the menu (p. 46).

Checking the GPS Log Files

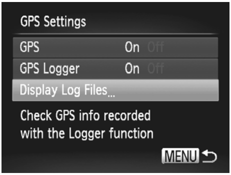
You can check the GPS log files saved to a memory card on the camera.



Time Zone... 🏠
Date/Time... 02.02.'12 10:00
GPS Auto Time On Off
GPS Settings...
Units m/cm ft/in
Sets GPS functions

1 Access the [GPS Settings] screen.

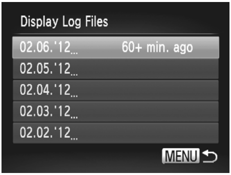
- Press the MENU button, choose [GPS Settings] on the 🔧 tab (p. 46).



GPS Settings
GPS On Off
GPS Logger On Off
Display Log Files...
Check GPS info recorded
with the Logger function

2 Access the [Display Log Files] screen.

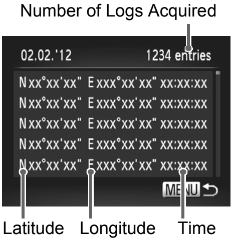
- Choose [Display Log Files], and then press the (FUNC./SET) button (p. 46).



Display Log Files
02.06.'12... 60+ min. ago
02.05.'12...
02.04.'12...
02.03.'12...
02.02.'12...

3 Choose the log file to examine.

▶ To the right of today's date, the time elapsed from the last time location information was recorded is displayed.



02.02.'12 1234 entries
N xx°xx'xx" E xxx°xx'xx" xx:xx:xx
N xx°xx'xx" E xxx°xx'xx" xx:xx:xx
N xx°xx'xx" E xxx°xx'xx" xx:xx:xx
N xx°xx'xx" E xxx°xx'xx" xx:xx:xx
N xx°xx'xx" E xxx°xx'xx" xx:xx:xx

- Choose the desired date and press the (FUNC./SET) button. The recorded latitude, longitude, time, and number of logs acquired that day are displayed.

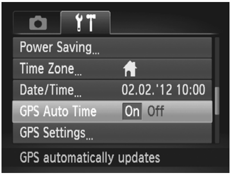
Automatically Updating the Date and Time

You can have the date and time for the configured time zone (pp. 19, 164) automatically updated when the camera receives GPS signals.
Your shots will be tagged with the shooting date/time as updated (p. 52, in UTC format), along with location information (p. 130).

---

1 Set [GPS] to [On].

- Follow steps 1 – 2 on p. 51 to configure the setting.



2 Configure the setting.

- Press the MENU button, choose [GPS Auto Time] on the 🔧 tab, and then choose [On] (p. 46).
- To set daylight saving time, follow the steps on p. 20.

Confirming Automatic Time Updating

[Update completed] is shown on the [Date/Time] screen in step 2 on p. 20 after the date and time are automatically updated. [GPS Auto Time: On] is shown if a GPS signal has not been received yet.

- When [GPS Auto Time] is set to [On], you cannot change the date and time by accessing the [Date/Time] screen as described on p. 21, because this information will be updated automatically.

3

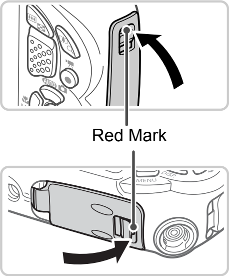
Smart Auto Mode

Convenient mode for easy shots with greater control over shooting

Still Images Movies

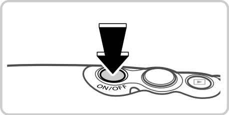
Shooting in Smart Auto Mode

For fully automatic selection at optimal settings for specific scenes, simply let the camera determine the subject and shooting conditions.



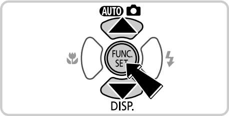
1 Make sure the covers are closed.

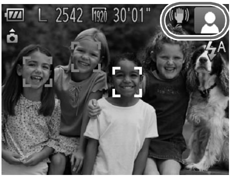
- Make sure that both the memory card/battery cover lock and terminal cover lock return to the positions shown, with the red marks no longer visible.
- If either cover is not fully closed, water may enter the camera when it gets wet, which may damage it.



2 Turn the camera on.

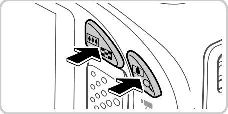
- Press the ON/OFF button.
- ▶ The startup screen is displayed.

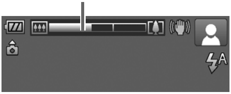




3 Enter AUTO mode.

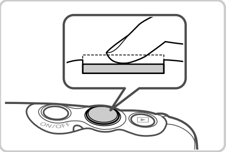
- Press the ▲ button, press the ▲▼ buttons to choose AUTO, and then press the FUNC./SET button.
- ▶ Icons representing the scene and image stabilization mode are displayed in the upper right of the screen (pp. 63, 64).
- ▶ Frames displayed around any detected subjects indicate that they are in focus.





4 Compose the shot.

- To zoom in and enlarge the subject, press the [♠] (telephoto) zoom button, and to zoom away from the subject, press the [♠♠♠] (wide angle) zoom button. (A zoom bar showing the zoom position is displayed.)

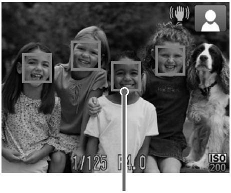


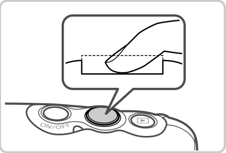
5 Shoot.

Shooting Still Images

① Focus.

- Press the shutter button halfway. The camera beeps twice after focusing, and AF frames are displayed to indicate image areas in focus.
- Several AF frames are displayed when multiple areas are in focus.



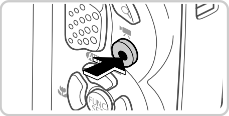


② Shoot.

- Press the shutter button all the way down.
- ▶ As the camera shoots, a shutter sound is played, and in low-light conditions, the flash fires automatically.
- ▶ Your shot remains displayed on the screen for about two seconds.
- Even while the shot is displayed, you can take another shot by pressing the shutter button again.

Shooting Movies

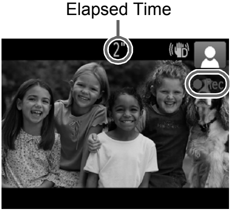
① Start shooting.



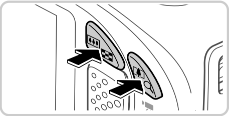
- Press the movie button. The camera beeps once as recording begins, and [●Rec] is displayed with the elapsed time.

▶ Black bars displayed on the top and bottom edges of the screen indicate image areas not recorded.

- Once recording begins, you can take your finger off the movie button.

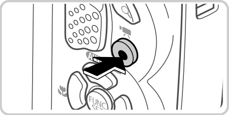


② Resize the subject and recompose the shot as needed.



- To resize the subject, do the same thing as in step 4 on p. 59.
  However, note that movies shot at zoom factors shown in blue will be grainy, and the sound of camera operations will be recorded.
- When you recompose shots, the focus, brightness, and colors will be automatically adjusted.

③ Finish shooting.



- Press the movie button again to stop shooting. The camera beeps twice as recording stops.
- Recording will stop automatically when the memory card becomes full.

Still Images/Movies

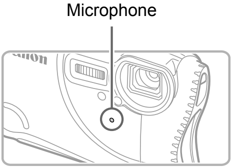
- To restore camera sound if you have accidentally deactivated it (by holding the ▼ button down while turning the camera on), press the MENU button and choose [Mute] on the 🔧 tab, and then press the ◀▶ buttons to choose [Off].

Still Images

- A flashing 📷 icon warns that images are more likely to be blurred by camera shake. In this case, mount the camera on a tripod or take other measures to keep it still.
- If your shots are dark despite the flash firing, move closer to the subject. For details on the flash range, see “Specifications” (p. 36).
- The subject may be too close if the camera only beeps once when you press the shutter button halfway. For details on the focusing range (shooting range), see “Specifications” (p. 36).
- To reduce red-eye and to assist in focusing, the lamp may be activated when shooting in low-light conditions.
- A blinking ⚡ icon displayed when you attempt to shoot indicates that shooting is not possible until the flash has finished recharging. Shooting can resume as soon as the flash is ready, so either press the shutter button all the way down and wait, or release it and press it again.

Movies

- The camera may become warm when shooting movies repeatedly over an extended period. This does not indicate damage.



- Keep your fingers away from the microphone while shooting movies. Blocking the microphone may prevent audio from being recorded or may cause the recording to sound muffled.
- Avoid touching camera controls other than the movie button when shooting movies, because sounds made by the camera will be recorded.
- To correct suboptimal image color that may occur in 1920 movie shooting (p. 74) after you recompose shots, press the movie button to stop recording, and then press it again to resume recording.

- Audio recording is monaural.

Scene Icons

In AUTO mode, shooting scenes determined by the camera are indicated by the icon displayed, and corresponding settings are automatically selected for optimal focusing, subject brightness, and color.

Subject / Background	People			Other Subjects			Icon Background Color
		In Motion*1	Shadows on Face*1		In Motion*1	At Close Range	
Bright	👤	👤≡	👤◐	AUTO	●≡	🌷	Gray
Backlit	👤☀	👤≡☀	–	☀	●≡☀	🌷☀	
With Blue Sky	👤	👤≡	👤◐	AUTO	●≡	🌷	Light Blue
Backlit	👤☀	👤≡☀	–	☀	●≡☀	🌷☀	
Sunsets	–			🌅		–	Orange
Spotlights	👤△			△		🌷△	Dark Blue
Dark	👤		👤◐	AUTO		🌷	
Tripod Used	👤🌙 *2	–		🌙 *2	–		

*1 Not displayed for movies.

*2 Displayed in dark scenes when the camera is held still, as when mounted on a tripod.

- Try shooting in **P** mode (p. 103) if the scene icon does not match actual shooting conditions, or if it is not possible to shoot with your expected effect, color, or brightness.

Image Stabilization Icons

Optimal image stabilization for the shooting conditions is automatically applied (Intelligent IS). Additionally, the following icons are displayed in AUTO mode.

((✋))	Image stabilization for still images	((✋D))	Image stabilization for movies, reducing strong camera shake, as when shooting while walking (Dynamic IS)
((→))	Image stabilization for still images, when panning*	((✋P))	Image stabilization for slow camera shake, such as when shooting movies at telephoto (Powered IS)
((🌷))	Image stabilization for macro shots (Hybrid IS)	((📷))	No image stabilization, because the camera is mounted on a tripod or held still by other means

* Displayed when you pan, following moving subjects with the camera. When you follow subjects moving horizontally, image stabilization only counteracts vertical camera shake, and horizontal stabilization stops. Similarly, when you follow subjects moving vertically, image stabilization only counteracts horizontal camera shake.

- To cancel image stabilization, set [IS Mode] to [Off] (p. 123). In this case, an IS icon is not displayed.

On-Screen Frames

A variety of frames are displayed once the camera detects subjects you are aiming the camera at.

- A white frame is displayed around the subject (or person's face) determined by the camera to be the main subject, and gray frames are displayed around other detected faces. Frames follow moving subjects within a certain range to keep them in focus.

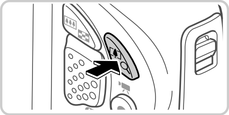
  However, if the camera detects subject movement, only the white frame will remain on the screen.
- When you are pressing the shutter button halfway and the camera detects subject movement, a blue frame is displayed, and the focus and image brightness are constantly adjusted (Servo AF).

- Try shooting in **P** mode (p. 103) if no frames are displayed, if frames are not displayed around desired subjects, or if frames are displayed on the background or similar areas.

Common, Convenient Features

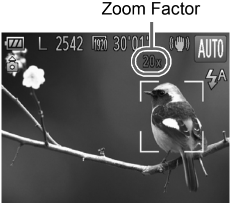
Zooming In Closer on Subjects (Digital Zoom)

When distant subjects are too far away to enlarge using the optical zoom, use digital zoom for up to about 20x enlargement.



1 Press the [♠] zoom button.

- Hold the button until zooming stops.
- ▶ Zooming stops at the largest possible zoom factor (before the image becomes grainy), which is displayed when you release the zoom button.



2 Press the [♠] zoom button again.

- ▶ The camera zooms in even closer on the subject, using digital zoom.

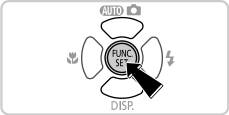
- Zoomed images may look grainy, under some resolution settings (p. 72) and zoom factors. In this case, the zoom factor is shown in blue.

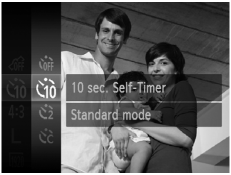
- Focal length when optical and digital zoom are combined is as follows (35mm film equivalent).
  28 – 560 mm (28 – 140 mm with optical zoom alone)
- To deactivate digital zoom, press the MENU button, choose [Digital Zoom] on the 📷 tab, and then choose [Off].

Still Images Movies

Using the Self-Timer

With the self-timer, you can include yourself in group photos or other timed shots. The camera will shoot about 10 seconds after you press the shutter button.

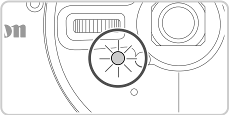




1 Configure the setting.

- Press the FUNC. SET button, choose OFF in the menu, and then choose the 10 option (p. 45).
- ▶ Once the setting is complete, 10 is displayed.

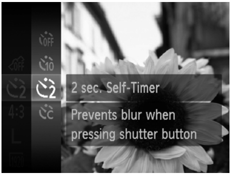
2 Shoot.



- For Still Images: Press the shutter button halfway to focus on the subject, and then press it all the way down.
- For Movies: Press the movie button.
- ▶ Once you start the self-timer, the lamp will blink and the camera will play a self-timer sound.
- ▶ Two seconds before the shot, the blinking and sound will speed up. (The lamp will remain lit in case the flash fires.)
- To cancel shooting after you have triggered the self-timer, press the MENU button.
- To restore the original setting, choose OFF in step 1.

Using the Self-Timer to Avoid Camera Shake

This option delays shutter release until about two seconds after you have pressed the shutter button. If the camera is unsteady while you are pressing the shutter button, it will not affect your shot.



2 sec. Self-Timer

Prevents blur when pressing shutter button

Configure the setting.

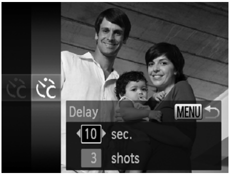
- Follow step 1 on p. 67 and choose ⏲2.
- ▶ Once the setting is complete, ⏲2 is displayed.
- Follow step 2 on p. 67 to shoot.

Customizing the Self-Timer

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

1 Choose ⏲C.

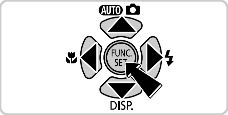
- Follow step 1 on p. 67, choose ⏲C, and then press the MENU button.



Delay

10 sec.

3 shots



2 Configure the setting.

- Press the ▲▼ buttons to choose [Delay] or [Shots].
- Press the ◀▶ buttons to choose a value, and then press the FUNC. SET button.
- ▶ Once the setting is complete, ⏲C is displayed.
- Follow step 2 on p. 67 to shoot.

ⓘ

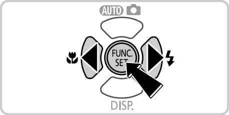
- For movies shot using the self-timer, [Delay] represents the delay before recording begins, but the [Shots] setting has no effect.

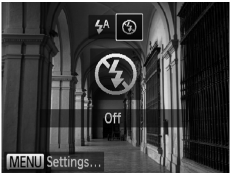
- When you specify multiple shots, image brightness and white balance are determined by the first shot. More time is required between shots when the flash fires or when you have specified to take many shots. Shooting will stop automatically when the memory card becomes full.
- When a delay longer than two seconds is specified, two seconds before the shot, the lamp blinking and self-timer sound will speed up. (The lamp will remain lit in case the flash fires.)

Still Images

Deactivating the Flash

Prepare the camera for shooting without the flash as follows.





Configure the setting.

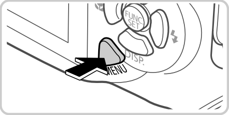
- Press the ▶ button, press the ◀▶ buttons to choose ⊘, and then press the (FUNC. SET) button.
- ▶ Once the setting is complete, ⊘ is displayed.
- To restore the original setting, repeat this process but choose ⚡A.

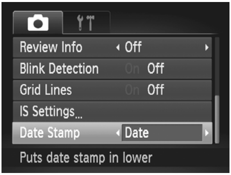
- If a flashing 📷 icon is displayed when you press the shutter button halfway in low-light conditions, mount the camera on a tripod or take other measures to keep it still.

Still Images

Adding the Shooting Date and Time

The camera can add the shooting date and time to images in the lower-right corner. However, note that these cannot be removed. Confirm beforehand that the date and time are correct (p. 19).





Review Info ◂ Off ▸
Blink Detection On Off
Grid Lines On Off
IS Settings...
Date Stamp ◂ Date ▸
Puts date stamp in lower

1 Configure the setting.

- Press the MENU button, choose [Date Stamp] on the 📷 tab, and then choose the desired option (p. 46).
- ▶ Once the setting is complete, [DATE] is displayed.

2 Shoot.

- ▶ As you take shots, the camera adds the shooting date or time to the lower-right corner of images.
- To restore the original setting, choose [Off] in step 1.

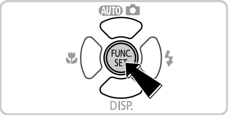
- Images originally recorded without the shooting date can be printed with this information as follows. However, adding the shooting date to images that already have this information may cause it to be printed twice.
  - Use camera DPOF print settings (p. 188) to print
  - Use the included software to print
    For details, refer to the *ImageBrowser EX User Guide* (p. 28).
  - Print using printer functions (p. 181)

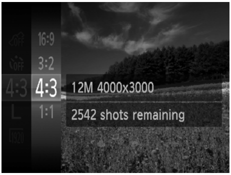
Image Customization Features

Still Images

Changing the Aspect Ratio

Change the image aspect ratio (ratio of width to height) as follows.





12M 4000x3000

2542 shots remaining

Configure the setting.

- Press the FUNC. SET button, choose 4:3 in the menu, and choose the desired option (p. 45).
- ▶ Once the setting is complete, the screen aspect ratio will be updated.
- To restore the original setting, repeat this process but choose 4:3.

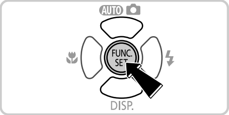
16:9	Same aspect ratio as HDTVs, used for display on widescreen HDTVs or similar display devices.
3:2	Same aspect ratio as 35 mm film, used for printing images at 5 x 7-inch or postcard sizes.
4:3	Native aspect ratio of the camera screen, used for printing images at 3.5 x 5-inch or A-series sizes.
1:1	Square aspect ratio.

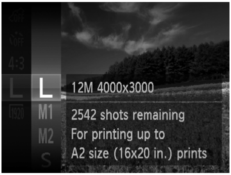
- At aspect ratios other than 4:3, digital zoom (p. 66) is not available ([Digital Zoom] is set to [Off]).

Still Images

Changing Image Resolution (Size)

Choose from 4 levels of image resolution, as follows. For guidelines on how many shots at each resolution setting can fit on a memory card, see “Specifications” (p. 36).





12M 4000x3000

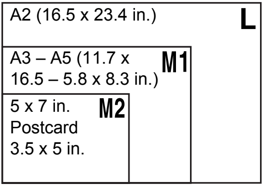
2542 shots remaining

For printing up to A2 size (16x20 in.) prints

Configure the setting.

- Press the FUNC./SET button, choose L in the menu, and choose the desired option (p. 45).
- ▶ The option you configured is now displayed.
- To restore the original setting, repeat this process but choose L.

Guidelines for Choosing Resolution Based on Paper Size (for 4:3 Images)

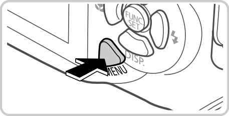


- S : For e-mailing images.

Still Images

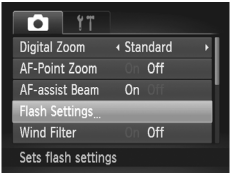
Red-Eye Correction

Red-eye that occurs in the flash photography can be automatically corrected as follows.

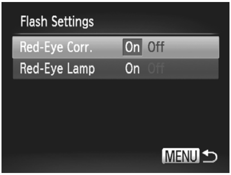


1 Access the [Flash Settings] screen.

- Press the MENU button, choose [Flash Settings] on the 📷 tab (p. 46).



Digital Zoom ◂ Standard ▸
AF-Point Zoom On Off
AF-assist Beam On Off
Flash Settings...
Wind Filter On Off
Sets flash settings



Flash Settings
Red-Eye Corr. On Off
Red-Eye Lamp On Off

2 Configure the setting.

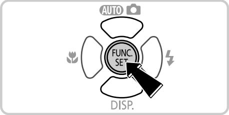
- Choose [Red-Eye Corr.], and then choose [On] (p. 46).
- ▶ Once the setting is complete, ◉ is displayed.
- To restore the original setting, repeat this process but choose [Off].

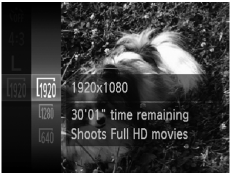
- Red-eye correction may be applied to image areas other than eyes (if the camera misinterprets red eye makeup as red pupils, for example).

- You can also correct existing images (p. 154).
- You can also access the screen in step 2 by pressing the ▶ button and then the MENU button.

Changing Movie Image Quality

3 image quality settings are available. For guidelines on the maximum movie length at each level of image quality that will fit on a memory card, see “Specifications” (p. 36).





1920x1080

30'01" time remaining

Shoots Full HD movies

Configure the setting.

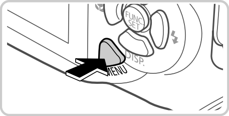
- Press the FUNC. SET button, choose 1920 in the menu, and choose the desired option (p. 45).
- ▶ The option you configured is now displayed.
- To restore the original setting, repeat this process but choose 1920.

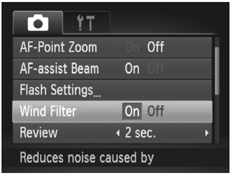
Image Quality	Resolution	Frame Rate	Details
1920	1920 x 1080	24 fps	For shooting in Full HD
1280	1280 x 720	30 fps	For shooting in HD
640	640 x 480	30 fps	For shooting in standard definition

- In 1920 and 1280 modes, black bars displayed on the top and bottom edges of the screen indicate image areas not recorded.

Using the Wind Filter

Distorted audio caused by recording when the wind is strong can be reduced. However, the recording may sound unnatural when this option is used when there is no wind.





AF-Point Zoom On Off
AF-assist Beam On Off
Flash Settings...
Wind Filter On Off
Review ◂ 2 sec. ▸
Reduces noise caused by

Configure the setting.

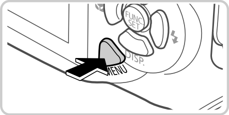
- Press the MENU button, choose [Wind Filter] on the 📷 tab, and then choose [On] (p. 46).
- To restore the original setting, repeat this process but choose [Off].

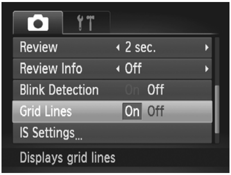
Helpful Shooting Features

Still Images Movies

Displaying Grid Lines

Grid lines can be displayed on the screen for vertical and horizontal reference while shooting.





Review ◂ 2 sec. ▸
Review Info ◂ Off ▸
Blink Detection On Off
Grid Lines On Off
IS Settings...
Displays grid lines

Configure the setting.

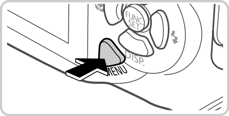
- Press the MENU button, choose [Grid Lines] on the 📷 tab, and then choose [On] (p. 46).
- ▶ Once the setting is complete, grid lines are displayed on the screen.
- To restore the original setting, repeat this process but choose [Off].

- Grid lines are not recorded in your shots.

Still Images

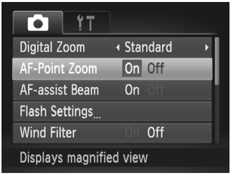
Magnifying the Area in Focus

You can check the focus by pressing the shutter button halfway to enlarge the image area in the AF frame.

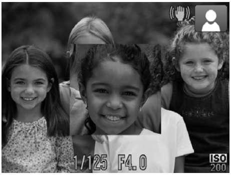


1 Configure the setting.

- Press the MENU button, choose [AF-Point Zoom] on the 📷 tab, and then choose [On] (p. 46).



Digital Zoom ◂ Standard ▸
AF-Point Zoom On Off
AF-assist Beam On Off
Flash Settings...
Wind Filter On Off
Displays magnified view



2 Check the focus.

- Press the shutter button halfway. The face detected as the main subject is now magnified.
- To restore the original setting, choose [Off] in step 1.

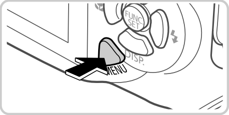
- The display will not magnify if a face was not detected, or if the person is too close to the camera and his or her face is too large for the screen.

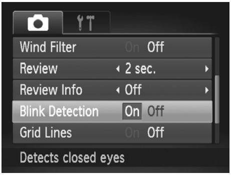
- The display will not magnify when using the digital zoom (p. 66) or Tracking AF (p. 118).

Still Images

Checking for Closed Eyes

is displayed when the camera detects that people may have closed their eyes.





Wind Filter On Off
Review ◂ 2 sec. ▸
Review Info ◂ Off ▸
Blink Detection On Off
Grid Lines On Off
Detects closed eyes

1 Configure the setting.

- Press the MENU button, choose [Blink Detection] on the 📷 tab, and then choose [On] (p. 46).

2 Shoot.

- ▶ A frame, accompanied by , is displayed when the camera detects a person whose eyes are closed.
- To restore the original setting, choose [Off] in step 1.

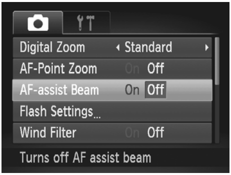
- When you have specified multiple shots in mode, this function is only available for the final shot.

Customizing Camera Operation

Customize shooting functions on the 📷 tab of the menu as follows.
For instructions on menu functions, see “MENU Menu” (p. 46).

Deactivating the AF Assist Beam

You can deactivate the lamp that normally lights up to help you focus when you press the shutter button halfway in low-light conditions.



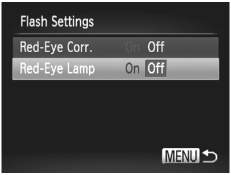
Digital Zoom ◂ Standard ▸
AF-Point Zoom On Off
AF-assist Beam On Off
Flash Settings...
Wind Filter On Off
Turns off AF assist beam

Configure the setting.

- Press the MENU button, choose [AF-assist Beam] on the 📷 tab, and then choose [Off] (p. 46).
- To restore the original setting, repeat this process but choose [On].

Deactivating the Red-Eye Reduction Lamp

You can deactivate the red-eye reduction lamp that lights up to reduce red-eye when the flash is used in low-light shots.



Flash Settings
Red-Eye Corr. On Off
Red-Eye Lamp On Off

1 Access the [Flash Settings] screen.

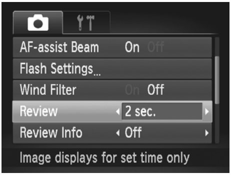
- Press the MENU button, choose [Flash Settings] on the 📷 tab (p. 46).

2 Configure the setting.

- Choose [Red-Eye Lamp], and then choose [Off] (p. 46).
- To restore the original setting, repeat this process but choose [On].

Changing the Image Display Period After Shots

Change how long images are displayed after shots as follows.



AF-assist Beam On Off
Flash Settings...
Wind Filter On Off
Review ◂ 2 sec. ▸
Review Info ◂ Off ▸
Image displays for set time only

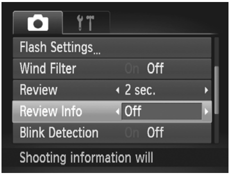
Configure the setting.

- Press the MENU button, choose [Review] on the 📷 tab, and then choose the desired option (p. 46).
- To restore the original setting, repeat this process but choose [2 sec.].

2 – 10 sec.	Displays images for the specified time.
Hold	Displays images until you press the shutter button halfway.
Off	No image display after shots.

Changing the Image Display Style After Shots

Change the way images are displayed after shots as follows.



Flash Settings...
Wind Filter On Off
Review ◂ 2 sec. ▸
Review Info ◂ Off ▸
Blink Detection On Off
Shooting information will

Configure the setting.

- Press the MENU button, choose [Review Info] on the 📷 tab, and then choose the desired option (p. 46).
- To restore the original setting, repeat this process but choose [Off].

Off	Displays only the image.
Detailed	Displays shooting details (p. 206).
Focus Check	Shows the area in the AF frame magnified, enabling you to check the focus. Follow the steps in “Checking the Focus” (p. 131).

4

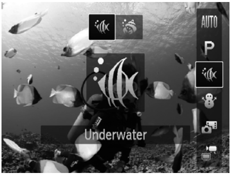
Other Shooting Modes

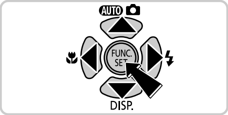
Shoot more effectively in various scenes, and take shots enhanced with unique image effects or captured using special functions

Still Images Movies

Specific Scenes

Choose a mode matching the shooting scene, and the camera will automatically configure the settings for optimal shots.





1 Choose a shooting mode.

- Press the ▲ button, and then press the ▲▼ buttons to choose a shooting mode.
- When multiple icons are displayed in the middle of the screen, press the ◀▶ buttons to choose a shooting mode.
- Press the FUNC./SET button.

2 Shoot.

Still Images Movies

Shoot under water (Underwater)

- Take natural-colored shots of sea life and underwater scenery.
- This mode can correct white balance and match the effect of using a commercially available color-compensating filter (p. 85).

Still Images Movies

Shoot close-up subjects under water (Underwater Macro)

- Take natural-colored, close-up shots of sea life. Use the digital zoom to get even closer shots of subjects. However, using the digital zoom may cause the image to appear grainy depending on the resolution setting (p. 72).

Still Images | Movies

Shoot with snowy backgrounds (Snow)

- Bright, natural-colored shots of people against snowy backgrounds.

Still Images | Movies

Shoot portraits (Portrait)

- Take shots of people with a softening effect.

Still Images

Shoot evening scenes without using a tripod (Handheld NightScene)

- Beautiful shots of evening scenes, created by combining consecutive shots to reduce camera shake and image noise.
- When using a tripod, shoot in AUTO mode (p. 58).

Still Images

Shoot under low light (Low Light)

- Shoot with minimal camera shake and subject blur even in low-light conditions.

Still Images

Shoot fireworks (Fireworks)

- Vivid shots of fireworks.

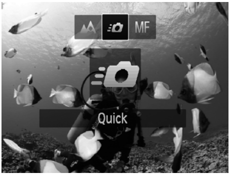
- Because the camera will shoot continuously in 🌃 mode, hold it steady while shooting.
- In 🌃 mode, shooting conditions that cause excessive camera shake or similar issues may prevent the camera from combining images, and you may not be able to obtain the expected results.
- In ❊ mode, mount the camera on a tripod or take other measures to keep it still and prevent camera shake. In this case, set [IS Mode] to [Off] (p. 123).

- ✧ mode resolution is M (1984 x 1488) and cannot be changed.
- In 🌊 mode, optical zoom is set to maximum wide angle and cannot be used.

Still Images

Shooting Quickly Underwater

To avoid missing unexpected underwater shooting opportunities with subjects about 3 m (9.8 ft.) away from you, try switching to 🐠 mode (p. 82) and setting the focusing range to ⚡📷.



1 Choose 🐠.

- Follow step 1 on p. 82 and choose 🐠.

2 Choose the focusing range.

- Press the ◀ button, press the ◀▶ buttons to choose ⚡📷, and then press the FUNC. SET button.

3 Shoot.

- Aim the camera so that the subject is in the center frame, and then press the shutter button halfway.
- As soon as you notice a good shooting opportunity, press the shutter button all the way down.

- For closer subjects that are not in sharp focus, try setting the focusing range to ⛰.

- The AF frame will remain white while the shutter button is pressed halfway.
- These settings are not available when using Tracking AF (p. 118).

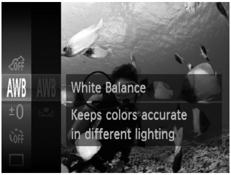
Still Images Movies

Correcting White Balance

White balance can be manually corrected in 🐟 and ⛄ modes (p. 82). This adjustment can match the effect of using a commercially available color-compensating filter.

1 Choose 🐟 or ⛄.

- Follow step 1 on p. 82 and choose 🐟 or ⛄.

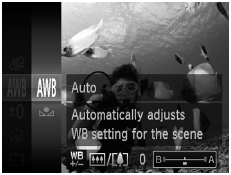


White Balance

Keeps colors accurate in different lighting

2 Choose white balance.

- Press the (FUNC. SET) button, choose AWB in the menu, and press the (FUNC. SET) button again.



Auto

Automatically adjusts WB setting for the scene

WB +/– 0 B A

3 Adjust the setting.

- Press the zoom buttons to adjust the correction level for B and A, and then press the (FUNC. SET) button.

- The camera will retain white balance correction levels even if you switch to another white balance option in step 2, but correction levels will be reset if you record custom white balance data.

- B represents blue and A, amber.
- White balance can also be manually corrected by recording custom white balance data (p. 109) before following the preceding steps.

Applying Special Effects

Add a variety of effects to images when shooting.

1 Choose a shooting mode.

- Follow step 1 on p. 82 to choose a shooting mode.

2 Shoot.

- In , , , , and modes, try taking some test shots first, to make sure you obtain the desired results.

Still Images | Movies

Shoot in vivid colors (Super Vivid)

- Shots in rich, vivid colors.

Still Images | Movies

Posterized shots (Poster Effect)

- Shots that resemble an old poster or illustration.

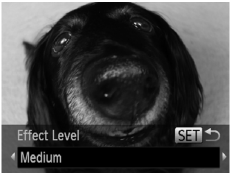
Still Images

Shooting with a Fish-Eye Lens Effect (Fish-eye Effect)

Shoot with the distorting effect of a fish-eye lens.

1 Choose .

- Follow step 1 on p. 82 and choose .



2 Choose an effect level.

- Press the ▼ button, press the ◀▶ buttons to choose an effect level, and then press the FUNC. SET button.
- ▶ A preview is shown of how your shot will look with the effect applied.

3 Shoot.

Still Images Movies

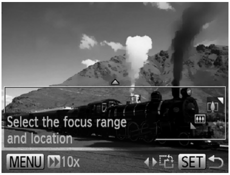
Shots Resembling Miniature Models (Miniature Effect)

Creates the effect of a miniature model, by blurring image areas above and below your selected area.

You can also make movies that look like scenes in miniature models by choosing the playback speed before the movie is recorded. People and objects in the scene will move quickly during playback. Note that sound is not recorded.

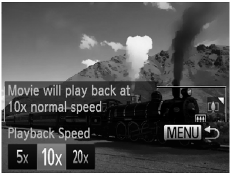
1 Choose .

- Follow step 1 on p. 82 and choose .
- ▶ A white frame is displayed, indicating the image area that will not be blurred.


Select the focus range and location

2 Choose the area to keep in focus.

- Press the ▼ button.
- Press the zoom buttons to resize the frame, and press the ▲▼ buttons to move it.


Movie will play back at 10x normal speed

3 For movies, choose the movie playback speed.

- Press the MENU button, and then press the ◀▶ buttons to choose the speed.

4 Return to the shooting screen and shoot.

- Press the MENU button to return to the shooting screen, and then shoot.
- Press the (FUNC. SET) button to return to the shooting screen, and then shoot.

Playback Speed and Estimated Playback Time (for One-Minute Clips)

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

- The zoom is not available when shooting movies. Be sure to set the zoom before shooting.

- To switch the orientation of the frame to vertical, press the ◀▶ buttons in step 2. To move the frame, press the ◀▶ buttons again. To return the frame to horizontal orientation, press the ▲▼ buttons.
- Holding the camera vertically will change the orientation of the frame.
- Movie image quality is 640 at an aspect ratio of 4:3 and 1280 at an aspect ratio of 16:9 (p. 71). These quality settings cannot be changed.

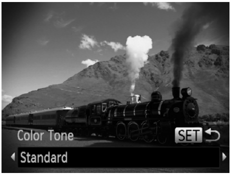
Still Images

Shooting with a Toy Camera Effect (Toy Camera Effect)

This effect makes images resemble shots from a toy camera by vignetting (darker, blurred image corners) and changing the overall color.

1 Choose 📷.

- Follow step 1 on p. 82 and choose 📷.



2 Choose a color tone.

- Press the ▼ button, press the ◀▶ buttons to choose a color tone, and then press the FUNC./SET button.
- ▶ A preview is shown of how your shot will look with the effect applied.

3 Shoot.

Standard	Shots resemble toy camera images.
Warm	Images have a warmer tone than with [Standard].
Cool	Images have a cooler tone than with [Standard].

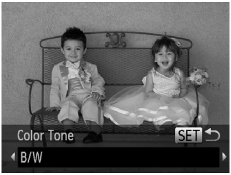
Still Images Movies

Shooting in Monochrome

Shoot images in black and white, sepia, or blue and white.

1 Choose ◪.

- Follow step 1 on p. 82 and choose ◪.



2 Choose a color tone.

- Press the ▼ button, press the ◀▶ buttons to choose a color tone, and then press the (FUNC SET) button.
- ▶ A preview is shown of how your shot will look with the effect applied.

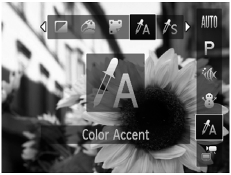
3 Shoot.

B/W	Black and white shots.
Sepia	Sepia tone shots.
Blue	Blue and white shots.

Still Images Movies

Shooting with Color Accent

Choose a single image color to keep and change other colors to black and white.

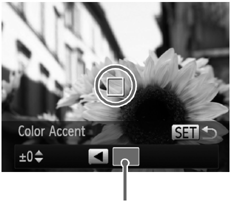


1 Choose ✎A.

- Follow step 1 on p. 82 and choose ✎A.

2 Access the setting screen.

- Press the ▼ button.
- ▶ The original image and the Color Accent image are displayed one after another.
- ▶ By default, green is the color that will be kept.



Recorded Color

3 Specify the color.

- Position the center frame over the color to keep, and then press the ◀ button.
- ▶ The specified color is recorded.

4 Specify the range of colors to keep.

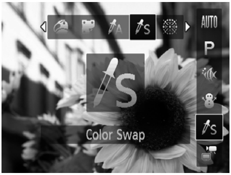
- Press the ▲▼ buttons to adjust the range.
- To keep only your specified color, choose a large negative value. To keep colors similar to your specified color as well, choose a large positive value.
- Press the FUNC. SET button to return to the shooting screen.

- Using the flash in this mode may cause unexpected results.
- In some shooting scenes, images may look grainy and colors may not look as expected.

Still Images Movies

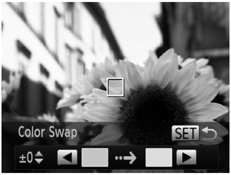
Shooting with Color Swap

You can replace one image color with another before shooting. Note that only one color can be replaced.



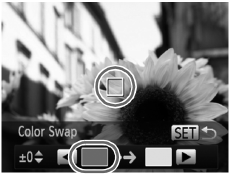
1 Choose ✎S.

- Follow step 1 on p. 82 and choose ✎S.



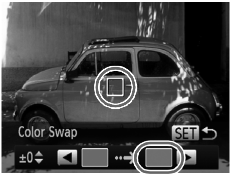
2 Access the setting screen.

- Press the ▼ button.
- ▶ The original image and the Color Swap image are displayed one after another.
- ▶ By default, green will be replaced with gray.



3 Specify the color to replace.

- Position the center frame over the color to replace, and then press the ◀ button.
- ▶ The specified color is recorded.



4 Specify the new color.

- Position the center frame over the new color, and then press the ▶ button.
- ▶ The specified color is recorded.

5 Specify the range of colors to replace.

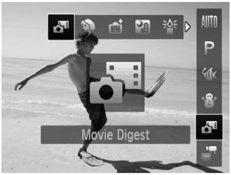
- Press the ▲▼ buttons to adjust the range.
- To replace only your specified color, choose a large negative value. To replace colors similar to your specified color as well, choose a large positive value.
- Press the (FUNC. SET) button to return to the shooting screen.

- Using the flash in this mode may cause unexpected results.
- In some shooting scenes, images may look grainy and colors may not look as expected.

Still Images Movies

Auto Clip Recording (Movie Digest)

You can make a short movie of a day just by shooting still images. Before each shot, the camera will automatically record a movie clip of the scene. Each clip recorded that day is combined into a single file.



1 Choose 📷.

- Follow step 1 on p. 82 and choose 📷.

2 Shoot.

- To shoot a still image, press the shutter button all the way down.
- ▶ Before shooting, the camera will automatically record a clip about 2 – 4 seconds long.

- Clips may not be recorded if you shoot a still image immediately after turning the camera on, choosing 📷 mode, or operating the camera in other ways.
- Battery life is shorter in this mode than in AUTO mode, because clips are recorded for each shot.
- Any sounds from camera operations during movie recording will be included in the movie.

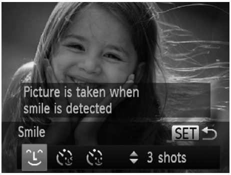
- 📷 mode movie quality is 640 and cannot be changed.
- Clips are saved as separate movie files in the following cases even if they were recorded on the same day in 📷 mode.
  - If the movie file size reaches about 4 GB or the total recording time reaches approx. 1 hour
  - If a movie is protected (p. 138)
  - If the daylight saving time (p. 20) or time zone settings have been changed (p. 164)
  - If a new folder is created (p. 163)
- Some camera sounds will be muted. Sounds are not played when you press the shutter button halfway, use camera controls, or trigger the self-timer (p. 159).
- Movies created in 📷 mode can be viewed by date (p. 134).

Still Images

Auto Shooting After Face Detection (Smart Shutter)

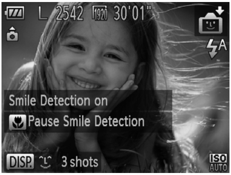
Auto Shooting After Smile Detection

The camera shoots automatically after detecting a smile, even without you pressing the shutter button.


Picture is taken when smile is detected

1 Choose ☺.

- Follow step 1 on p. 82 and choose 📷, and then press the ▼ button.
- Press the ◀▶ buttons to choose ☺, and then press the FUNC./SET button.
- ▶ The camera now enters shooting standby mode, and [Smile Detection on] is displayed.


Smile Detection on

Pause Smile Detection

2 Aim the camera at a person.

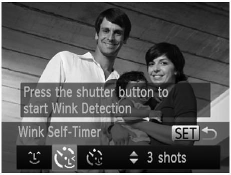
- Each time the camera detects a smile, it will shoot after the lamp lights up.
- To pause smile detection, press the ◀ button. Press the ◀ button again to resume detection.

- Switch to another mode when you finish shooting, or the camera will continue shooting each time a smile is detected.

- You can also shoot as usual by pressing the shutter button.
- The camera can detect smiles more easily when subjects face the camera and open their mouth wide enough so that teeth are visible.
- To change the number of shots, press the ▲▼ buttons after choosing ☺ in step 1. [Blink Detection] (p. 78) is only available for the final shot.

Using the Wink Self-Timer

Aim the camera at a person and press the shutter button all the way down. The camera will shoot about two seconds after a wink is detected.



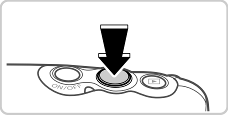
Press the shutter button to start Wink Detection

1 Choose .

- Follow step 1 on p. 82 and choose , and then press the ▼ button.
- Press the ◀▶ buttons to choose , and then press the FUNC. SET button.

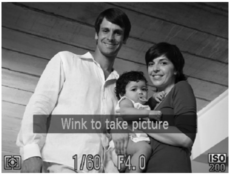
2 Compose the shot and press the shutter button halfway.

- Make sure a green frame is displayed around the face of the person who will wink.



3 Press the shutter button all the way down.

- ▶ The camera now enters shooting standby mode, and [Wink to take picture] is displayed.
- ▶ The lamp blinks and the self-timer sound is played.



Wink to take picture

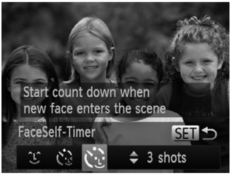
4 Face the camera and wink.

- ▶ The camera will shoot about two seconds after detecting a wink by the person whose face is inside the frame.
- To cancel shooting after you have triggered the self-timer, press the MENU button.

- If the wink is not detected, wink again slowly and deliberately.
- Winking may not be detected if eyes are obscured by hair, a hat, or glasses.
- Closing and opening both eyes at once will also be detected as a wink.
- If winking is not detected, the camera will shoot about 15 seconds later.
- To change the number of shots, press the ▲▼ buttons after choosing in step 1. [Blink Detection] (p. 78) is only available for the final shot.
- If no one is in the shooting area when the shutter button is pressed all the way down, the camera will shoot after a person enters the shooting area and winks.

Using the Face Self-Timer

The camera will shoot about two seconds after detecting that the face of another person (such as the photographer) has entered the shooting area (p. 116). This is useful when including yourself in group photos or similar shots.



Start count down when new face enters the scene

FaceSelf-Timer

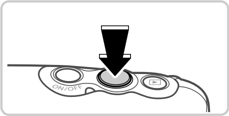
3 shots

1 Choose ☺.

- Follow step 1 on p. 82 and choose 📷, and then press the ▼ button.
- Press the ◀▶ buttons to choose ☺, and then press the (FUNC SET) button.

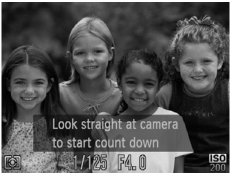
2 Compose the shot and press the shutter button halfway.

- Make sure a green frame is displayed around the face you focus on and white frames around other faces.



3 Press the shutter button all the way down.

- ▶ The camera now enters shooting standby mode, and [Look straight at camera to start count down] is displayed.
- ▶ The lamp blinks and the self-timer sound is played.



Look straight at camera to start count down

4 Join the subjects in the shooting area and look at the camera.

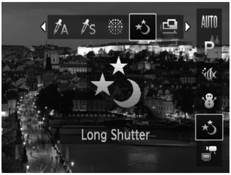
- ▶ After the camera detects a new face, the lamp blinking and self-timer sound will speed up. (When the flash fires, the lamp will remain lit.) About two seconds later, the camera will shoot.
- To cancel shooting after you have triggered the self-timer, press the MENU button.

- Even if your face is not detected after you join the others in the shooting area, the camera will shoot about 15 seconds later.
- To change the number of shots, press the ▲▼ buttons after choosing ☺ in step 1. [Blink Detection] (p. 78) is only available for the final shot.

Still Images

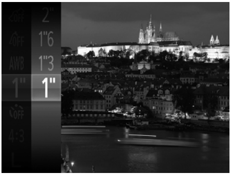
Shooting Long Exposures (Long Shutter)

Specify a shutter speed of 1 – 15 seconds to shoot long exposures. In this case, mount the camera on a tripod or take other measures to prevent camera shake.



1 Choose ☆.

- Follow step 1 on p. 82 and choose ☆.



2 Choose the shutter speed.

- Press the FUNC./SET button, choose 1" in the menu, and choose the desired shutter speed (p. 45).

3 Check the exposure.

- Press the shutter button halfway to view the exposure for your selected shutter speed.

4 Shoot.

- On-screen image brightness in step 3, when you pressed the shutter button halfway, may not match the brightness of your shots.
- With shutter speeds of 1.3 seconds or slower, there will be a delay before you can shoot again, as the camera processes images to reduce noise.
- Set [IS Mode] to [Off] when using a tripod or other means to hold the camera still (p. 123).

- If the flash fires, your shot may be overexposed. In this case, set the flash to ⊘ and shoot again.

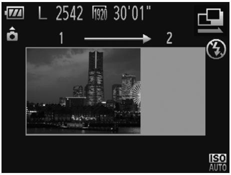
Still Images

Shooting Stitch Assist Images

Shoot a large subject by taking multiple shots at various positions, and then use the included software to combine them into a panorama.

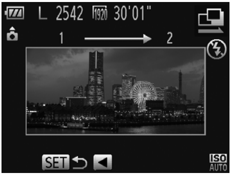
1 Choose ⧉ or ⧉.

- Follow step 1 on p. 82 and choose ⧉ or ⧉.



2 Take the first shot.

▶ The first shot will determine the exposure and white balance.



3 Take additional shots.

- Compose the second shot so that it partially overlaps the image area of the first shot.
- Minor misalignment of overlapping portions will be corrected automatically when the images are combined.
- You can take up to 26 shots, the same way you took the second shot.

4 Finish shooting.

- Press the FUNC./SET button.

5 Use the software to combine the images.

- For instructions on merging images, refer to the *ImageBrowser EX User Guide* (p. 28).

- This function is not available when using a TV as a display while shooting (p. 175).

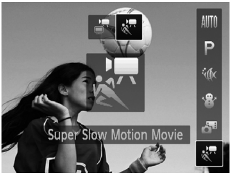
Shooting Various Movies

Shooting Super Slow Motion Movies

You can shoot fast-moving subjects for playback later in slow motion. Note that sound is not recorded.

1 Choose .

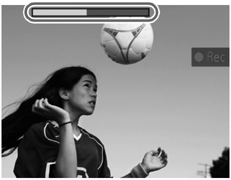
- Follow step 1 on p. 82 and choose .



2 Choose a frame rate.

- Press the (FUNC. SET) button, choose 240 in the menu, and choose the desired frame rate (p. 45).

▶ The option you configured is now displayed.



3 Shoot.

- Press the movie button.

▶ A bar showing the elapsed time is displayed. Maximum clip length is approx. 30 sec.

- To stop movie recording, press the movie button again.

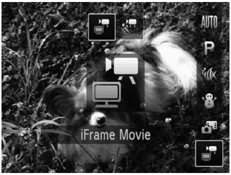
Frame Rate	Image Quality	Playback Time (For a 30 sec. Clip)
240 240 fps	320 (320x240)	Approx. 4 min.
120 120 fps	640 (640x480)	Approx. 2 min.

- Zooming is not available during recording, even if you press the zoom buttons.
- Focus, exposure, and color are determined when you press the movie button.

- The movie will be played back in slow motion when you follow steps 1 – 3 on pp. 126 – 127.
- You can change the playback speed of movies shot in 🎥 mode by using the included software. For details, refer to the *ImageBrowser EX User Guide* (p. 28).

Shooting iFrame Movies

Shoot movies that can be edited with iFrame-compatible software or devices. You can quickly edit, save, and manage iFrame movies using the included software.



1 Choose 🎥.

- Follow step 1 on p. 82 and choose 🎥.
- ▶ Black bars displayed on the top and bottom edges of the screen indicate image areas not recorded.

2 Shoot.

- Press the movie button.
- To stop movie recording, press the movie button again.

- The resolution is 1280 (p. 74) and cannot be changed.
- iFrame is a video format developed by Apple.

5

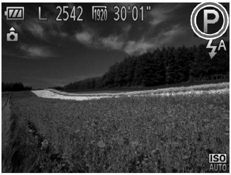
P mode

More discerning shots, in your preferred shooting style

- P: Program AE; AE: Auto Exposure
- Before using a function introduced in this chapter in modes other than P, make sure the function is available in that mode (pp. 208 – 213).

Shooting in Program AE Mode (P Mode)

You can customize many function settings to suit your preferred shooting style.



1 Enter P mode.

- Follow step 1 on p. 82 and choose P.

2 Customize the settings as desired (pp. 105 – 123), and then shoot.

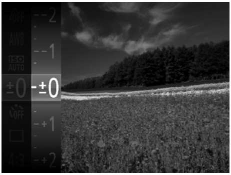
- If adequate exposure cannot be obtained when you press the shutter button halfway, shutter speeds and aperture values are displayed in orange. To obtain adequate exposure, try adjusting the following settings.
  - Activate the flash (p. 121)
  - Choose a higher ISO speed (p. 106)
- Movies can be recorded in P mode as well, by pressing the movie button. However, some FUNC. and MENU settings may be automatically adjusted for movie recording.
- For details on the shooting range in P mode, see “Specifications” (p. 36).

Image Brightness (Exposure Compensation)

Still Images

Adjusting Image Brightness (Exposure Compensation)

The standard exposure set by the camera can be adjusted in 1/3-stop increments, in a range of –2 to +2.



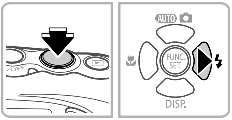
- Press the FUNC./SET button and choose ±0 in the menu. As you watch the screen, press the ▲▼ buttons to adjust brightness, then press the FUNC./SET button (p. 45).
- ▶ The correction level you specified is now displayed.

Still Images Movies

Locking Image Brightness/Exposure (AE Lock)

Before shooting, you can lock the exposure, or you can specify focus and exposure separately.

1 Set the flash to ⚡ (p. 69).



2 Lock the exposure.

- Aim the camera at the subject to shoot with the exposure locked. With the shutter button pressed halfway, press the ▶ button.
- ▶ AEL is displayed, and the exposure is locked.
- To unlock AE, release the shutter button and press the ▶ button again. In this case, AEL is no longer displayed.

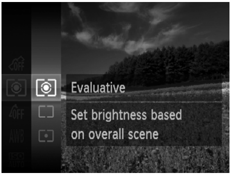
3 Compose the shot and shoot.

- AE: Auto Exposure

Still Images

Changing the Metering Method

Adjust the metering method (how brightness is measured) to suit shooting conditions as follows.



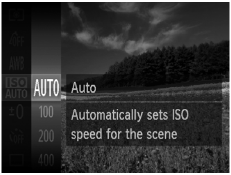
Set brightness based on overall scene

- Press the FUNC./SET button, choose [◉] in the menu, and choose the desired option (p. 45).
- ▶ The option you configured is now displayed.

[◉]	Evaluative	For typical shooting conditions, including backlit shots. Automatically adjusts exposure to match the shooting conditions.
[ ]	Center Weighted Avg.	Determines the average brightness of light across the entire image area, calculated by treating brightness in the central area as more important.
[•]	Spot	Metering restricted to within the [ ] (Spot AE Point frame), displayed in the center of the screen.

Still Images

Changing the ISO Speed



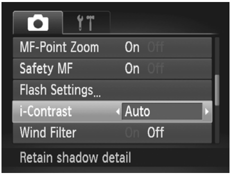
Automatically sets ISO speed for the scene

- Press the FUNC./SET button, choose ISO AUTO in the menu, and choose the desired option (p. 45).
- ▶ The option you configured is now displayed.

Still Images

Correcting Image Brightness (i-Contrast)

Before shooting, excessively bright or dark image areas (such as faces or backgrounds) can be detected and automatically adjusted to the optimal brightness. Insufficient overall image contrast can also be automatically corrected before shooting to make subjects stand out better.



MF-Point Zoom On Off

Safety MF On Off

Flash Settings...

i-Contrast Auto

Wind Filter On Off

Retain shadow detail

- Press the MENU button, choose [i-Contrast] on the 📷 tab, and then choose [Auto] (p. 46).
- ▶ Once the setting is complete, ◐i is displayed.

- Under some shooting conditions, correction may be inaccurate or may cause images to appear grainy.

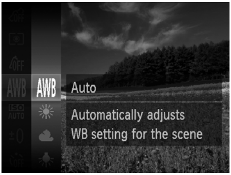
- You can also correct existing images (p. 153).

Color and Continuous Shooting

Still Images Movies

Adjusting White Balance

By adjusting white balance (WB), you can make image colors look more natural for the scene you are shooting.



Auto

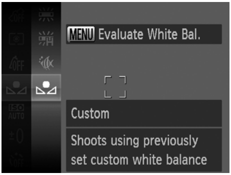
Automatically adjusts WB setting for the scene

- Press the FUNC./SET button, choose AWB in the menu, and choose the desired option (p. 45).
- ▶ The option you configured is now displayed.

AWB	Auto	Automatically sets the optimal white balance for the shooting conditions.
☀	Day Light	For shooting outdoors in fair weather.
☁	Cloudy	For shooting in cloudy conditions, in the shade, or at twilight.
💡	Tungsten	For shooting under ordinary incandescent (tungsten) lighting and similarly colored fluorescent lighting.
▬	Fluorescent	For shooting under warm-white (or similarly colored) or cool-white fluorescent lighting.
▬H	Fluorescent H	For shooting under daylight fluorescent and similarly colored fluorescent lighting.
🐟	Underwater	Sets the optimal white balance for shooting underwater. Tones down blues to produce natural-looking colors overall.
▲	Custom	For manually setting a custom white balance.

Custom White Balance

For image colors that look natural under the light in your shot, adjust white balance to suit the light source where you are shooting. Set the white balance under the same light source that will illuminate your shot.



Custom

Shoots using previously set custom white balance

- Follow the steps in “Adjusting White Balance” to choose .
- Aim the camera at a plain white subject, so that the entire screen is white. Press the MENU button.

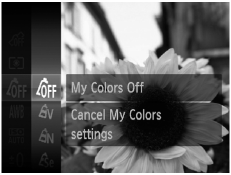
▶ The tint of the screen changes once the white balance data has been recorded.

- Colors may look unnatural if you change camera settings after recording white balance data.

Still Images Movies

Changing Image Color Tones (My Colors)

Change image color tones as desired, such as converting images to sepia or black and white.



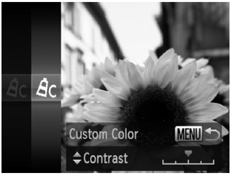
- Press the FUNC. SET button, choose OFF in the menu, and choose the desired option (p. 45).
- ▶ The option you configured is now displayed.

OFF	My Colors Off	–
V	Vivid	Emphasizes contrast and color saturation, making images sharper.
N	Neutral	Tones down contrast and color saturation for subdued images.
Se	Sepia	Creates sepia tone images.
BW	B/W	Creates black and white images.
P	Positive Film	Combines the effects of Vivid Blue, Vivid Green, and Vivid Red to produce intense yet natural-looking colors resembling images on positive film.
L	Lighter Skin Tone	Lightens skin tones.
D	Darker Skin Tone	Darkens skin tones.
B	Vivid Blue	Emphasizes blues in images. Makes the sky, ocean, and other blue subjects more vivid.
G	Vivid Green	Emphasizes greens in images. Makes mountains, foliage, and other green subjects more vivid.
R	Vivid Red	Emphasizes reds in images. Makes red subjects more vivid.
C	Custom Color	Adjust contrast, sharpness, color saturation, and other qualities as desired (p. 111).

- White balance (p. 108) cannot be set in Se or BW modes.
- With L and D modes, colors other than people's skin tone may be modified. These settings may not produce the expected results with some skin tones.

Custom Color

Choose the desired level of image contrast, sharpness, color saturation, red, green, blue, and skin tones in a range of 1 – 5.



1 Access the setting screen.

- Follow the steps in "Changing Image Color Tones (My Colors)" (p. 110) to choose C, and then press the MENU button.

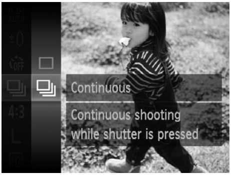
2 Configure the setting.

- Press the ▲▼ buttons to choose an option, and then press the ◀▶ buttons to specify the value.
- For stronger/more intense effects (or darker skin tones), adjust the value to the right, and for weaker/lighter effects (or lighter skin tones), adjust the value to the left.
- Press the MENU button to complete the setting.

Still Images

Continuous Shooting

Hold the shutter button all the way down to shoot continuously.
For details on the continuous shooting speed, see “Specifications” (p. 36).



1 Configure the setting.

- Press the FUNC./SET button, choose □ in the menu, and then choose ❐ (p. 45).
- ▶ Once the setting is complete, ❐ is displayed.

2 Shoot.

- ▶ Hold the shutter button all the way down to shoot continuously.

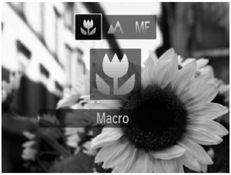
- Cannot be used with the self-timer (p. 67) or [Blink Detection] (p. 78).
- During continuous shooting, focus and exposure are locked at the position/level determined when you pressed the shutter button halfway.
- Shooting may stop momentarily or continuous shooting may slow down depending on shooting conditions, camera settings, and the zoom position.
- As more shots are taken, shooting may slow down.
- Shooting may slow down if the flash fires.

Shooting Range and Focusing

Still Images

Shooting Close-ups (Macro)

To restrict the focus to subjects at close range, set the camera to 🌷. For details on the focusing range, see “Specifications” (p. 36).



- Press the ◀ button, press the ◀▶ buttons to choose 🌷, and then press the (FUNC. SET) button.
- ▶ Once the setting is complete, 🌷 is displayed.

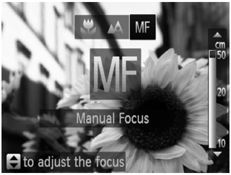
- In the yellow bar display area below the zoom bar, 🌷 will turn gray and the camera will not focus.

- To prevent camera shake, try mounting the camera on a tripod and shooting with the camera set to ⏲2 (p. 68).

Still Images Movies

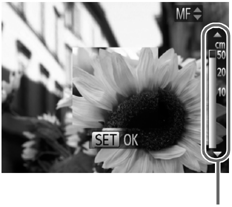
Shooting in Manual Focus Mode

When focusing is not possible in AF mode, use manual focus. You can specify the general focal position and then press the shutter button halfway to have the camera determine the optimal focal position near the position you specified. For details on the focusing range, see “Specifications” (p. 36).



1 Choose MF.

- Press the ◀ button, press the ◀▶ buttons to choose MF, and immediately press the ▲▼ buttons.



MF Indicator

2 Specify the general focal position.

- Referring to the on-screen MF indicator bar (which shows the distance and focal position) and the magnified display area, press the ▲▼ buttons to specify the general focal position, then press the FUNC./SET button.

3 Fine-tune the focus.

- Press the shutter button halfway to have the camera fine-tune the focal position (Safety MF).

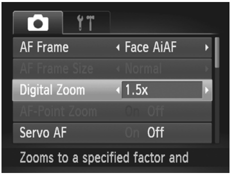
- AF frame mode or size cannot be changed while focusing manually (p. 116). If you want to change the AF frame mode or size, cancel manual focus mode first.
- Focusing is possible when using the digital zoom (p. 66) or digital tele-converter (p. 115), or when using a TV as a display (p. 175), but the magnified display will not appear.

- To focus more accurately, try attaching the camera to a tripod to stabilize it.
- To hide the magnified display area, press the MENU button and set [MF-Point Zoom] on the 📷 tab to [Off] (p. 46).
- To deactivate automatic focus fine-tuning when the shutter button is pressed halfway, press the MENU button and set [Safety MF] on the 📷 tab to [Off] (p. 46).

Still Images Movies

Digital Tele-Converter

The focal length of the lens can be increased by approximately 1.5x or 2.0x. This can reduce camera shake because the shutter speed is faster than it would be if you zoomed (including using digital zoom) in to the same zoom factor.



AF Frame Face AiAF
AF Frame Size Normal
Digital Zoom 1.5x
AF-Point Zoom On Off
Servo AF On Off
Zooms to a specified factor and

- Press the MENU button, choose [Digital Zoom] on the 📷 tab, and then choose the desired option (p. 46).
- ▶ The view is enlarged and the zoom factor is displayed on the screen.

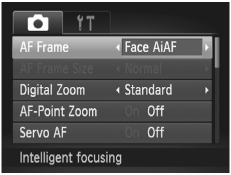
- Images will look grainy at a resolution (p. 72) of L or M1. In this case, the zoom factor is shown in blue.
- The digital tele-converter cannot be used with digital zoom (p. 66) and AF-point zoom (p. 77).
- The digital tele-converter is only available when the aspect ratio is 4:3 .

- The respective focal lengths when using [1.5x] and [2.0x] are 42.0 – 210 mm and 56.0 – 280 mm (35mm film equivalent).
- The shutter speed may be equivalent when you press the [🌲] (telephoto) zoom button for maximum telephoto, and when you zoom in to enlarge the subject to the same size following step 2 on p. 66.

Still Images Movies

Changing the AF Frame Mode

Change the AF (auto focus) frame mode to suit the shooting conditions as follows.



AF Frame ◂ Face AiAF ▸
AF Frame Size ◂ Normal ▸
Digital Zoom ◂ Standard ▸
AF-Point Zoom On Off
Servo AF On Off
Intelligent focusing

- Press the MENU button, choose [AF Frame] on the 📷 tab, and then choose the desired option (p. 46).

Still Images Movies

Face AiAF

- Detects people's faces, and then sets the focus, exposure (evaluative metering only), and white balance (AWB only).
- After you aim the camera at the subject, a white frame is displayed around the person's face determined by the camera to be the main subject, and up to two gray frames are displayed around other detected faces.
- When the camera detects movement, frames will follow moving subjects, within a certain range.
- After you press the shutter button halfway, up to nine green frames are displayed around faces in focus.

- If faces are not detected, or when only gray frames are displayed (without a white frame), up to nine green frames are displayed in the areas in focus when you press the shutter button halfway.
- If faces are not detected when Servo AF (p. 119) is set to [On], the AF frame is displayed in the center of the screen when you press the shutter button halfway.
- Examples of faces that cannot be detected:
  - Subjects that are distant or extremely close
  - Subjects that are dark or light
  - Faces in profile, at an angle, or partly hidden
- The camera may misinterpret non-human subjects as faces.
- No AF frames are displayed if the camera cannot focus when you press the shutter button halfway.

Still Images Movies

Center

One AF frame is displayed in the center. Effective for reliable focusing.

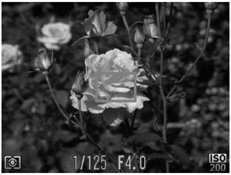
- A yellow AF frame is displayed with ! if the camera cannot focus when you press the shutter button halfway. Note that AF-point zooming (p. 77) is not possible.

- To reduce the AF frame size, press the MENU button and set [AF Frame Size] on the 📷 tab to [Small] (p. 46).
- The AF frame size is set to [Normal] when you use the digital zoom (p. 66) or digital tele-converter (p. 115), and in manual focus mode (p. 113).

Still Images

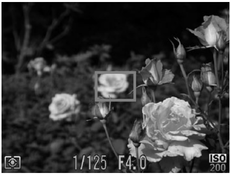
Recomposing Shots While the Focus is Locked

As long as you keep the shutter button pressed halfway, the focus and exposure are locked. You can recompose shots as needed before shooting. This feature is called Focus Lock.



1 Focus.

- Aim the camera so that the subject is centered, and then press the shutter button halfway.
- Confirm that the AF frame displayed around the subject is green.



2 Recompose the shot.

- Keeping the shutter button pressed halfway, move the camera to recompose the shot.

3 Shoot.

- Press the shutter button all the way down.

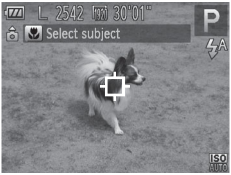
Still Images

Choosing Subjects to Focus On (Tracking AF)

Shoot after choosing a subject to focus on as follows.

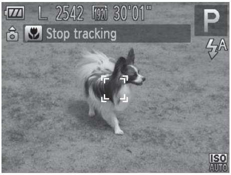
1 Choose [Tracking AF].

- Follow the steps in “Changing the AF Frame Mode” (p. 116) to choose [Tracking AF].
- ▶ ⌖ is displayed in the center of the screen.



2 Choose a subject to focus on.

- Aim the camera so that ⌖ is on the desired subject, and then press the ◀ button.



- ▶ When the subject is detected, the camera beeps and ⛶ is displayed. Even if the subject moves, the camera will continue to track the subject within a certain range.
- ▶ If no subject is detected, ⌖ is displayed.
- To cancel tracking, press the ◀ button again.

3 Shoot.

- Press the shutter button halfway. ⛶ changes to a blue ☐, which follows the subject as the camera continues to adjust the focus and exposure (Servo AF) (p. 119).
- Press the shutter button all the way down to shoot.
- ▶ Even after your shot, ⛶ is still displayed and the camera continues to track the subject.

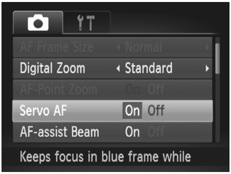
- [Servo AF] is set to [On] and cannot be changed.
- Tracking may not be possible when subjects are too small or move too rapidly, or when subject color or brightness matches that of the background too closely.
- [AF-Point Zoom] on the 📷 tab is not available.
- 🌷 is not available.

- The camera can detect subjects even if you press the shutter button halfway without pressing the ◀ button. After your shot, ⌖ is displayed in the center of the screen.
- When shooting in MF mode (p. 113), press and hold the ◀ button for at least one second.

Still Images

Shooting with Servo AF

This mode helps avoid missing shots of subjects in motion, because the camera continues to focus on the subject and adjust the exposure as long as you press the shutter button halfway.



AF Frame Size ‹ Normal ›
Digital Zoom ‹ Standard ›
AF-Point Zoom On Off
Servo AF On Off
AF-assist Beam On Off
Keeps focus in blue frame while

1 Configure the setting.

- Press the MENU button, choose [Servo AF] on the 📷 tab, and then choose [On] (p. 46).

2 Focus.

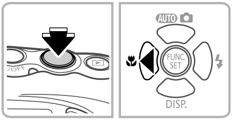
- The focus and exposure are maintained where the blue AF frame is displayed while you are pressing the shutter button halfway.

- Focusing may not be possible in some shooting conditions.
- In low-light conditions, Servo AF may not be activated (AF frames may not turn blue) when you press the shutter button halfway. In this case, the focus and exposure are set according to the specified AF frame mode.
- If adequate exposure cannot be obtained, shutter speeds and aperture values are displayed in orange. Release the shutter button, and then press it halfway again.
- AF lock shooting is not available.
- [AF-Point Zoom] on the 📷 tab is not available.
- Not available when using the self-timer (p. 67).

Still Images Movies

Shooting with the AF Lock

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



1 Lock the focus.

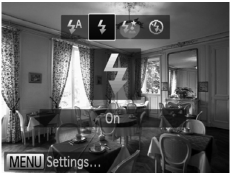
- With the shutter button pressed halfway, press the ◀ button.
- ▶ The focus is now locked, and AFL is displayed.
- To unlock the focus, release the shutter button and press the ◀ button again. In this case, AFL is no longer displayed.

2 Compose the shot and shoot.

Flash

Activating Flash

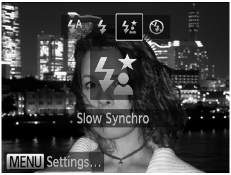
You can have the flash fire for each shot. For details on the flash range, see "Flash Range" (see "Specifications" (p. 36)).



- Press the ▶ button, press the ◀▶ buttons to choose ϟ, and then press the (FUNC./SET) button.
- ▶ Once the setting is complete, ϟ is displayed.

Shooting with Slow Synchro

With this option, the flash fires to increase the brightness of the main subject (such as people) while the camera shoots at a slow shutter speed to increase the brightness of the background that is out of the flash range.
For details on the flash range, see "Flash Range" (see "Specifications" (p. 36)).



1 Configure the setting.

- Press the ▶ button, press the ◀▶ buttons to choose ϟ★, and then press the (FUNC./SET) button.
- ▶ Once the setting is complete, ϟ★ is displayed.

2 Shoot.

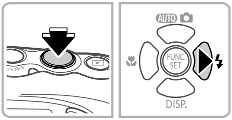
- Even after the flash fires, ensure that the main subject does not move until the shutter sound is finished playing.

- Mount the camera on a tripod or take other measures to keep it still and prevent camera shake. In this case, set [IS Mode] to [Off] (p. 123).

Shooting with the FE Lock

Just as with the AE lock (p. 105), you can lock the exposure for the flash shots.

1 Set the flash to ⚡ (p. 121).



2 Lock the flash exposure.

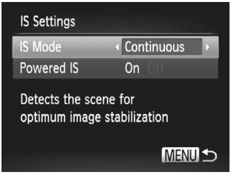
- Aim the camera at the subject to shoot with the exposure locked. With the shutter button pressed halfway, press the ▶ button.
- ▶ The flash fires, and when FEL is displayed, the flash output level is retained.
- To unlock FE, release the shutter button and press the ▶ button again. In this case, FEL is no longer displayed.

3 Compose the shot and shoot.

- FE: Flash Exposure

Still Images Movies

Changing the IS Mode Settings



IS Settings

IS Mode ◂ Continuous ▸

Powered IS On Off

Detects the scene for optimum image stabilization

1 Access the setting screen.

- Press the MENU button, choose [IS Settings] on the 📷 tab (p. 46).

2 Configure the setting.

- Choose [IS Mode], and then choose the desired option (p. 46).

Continuous	Optimal image stabilization for the shooting conditions is automatically applied (Intelligent IS) (p. 64).
Shoot Only*	Image stabilization is active only at the moment of shooting.
Off	Deactivates image stabilization.

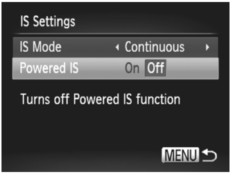
*The setting is changed to [Continuous] for movie recording.

- If image stabilization cannot prevent camera shake, mount the camera on a tripod or take other measures to hold it still. In this case, set [IS Mode] to [Off].

Movies

Deactivating Powered IS

Powered IS reduces slow camera shake that may occur when recording telephoto movies. However, this option may not produce the expected results when used for the stronger camera shake that may occur when shooting while walking or when moving the camera to match subject movement. In this case, set Powered IS to [Off].



IS Settings

IS Mode ◂ Continuous ▸

Powered IS On Off

Turns off Powered IS function

- Follow the steps in “Changing the IS Mode Settings” (p. 123) to access the [IS Settings] screen.
- Choose [Powered IS], and then choose [Off] (p. 46).

- [Powered IS] settings are not applied when [IS Mode] is set to [Off].

6

Playback Mode

Have fun reviewing your shots, and browse or edit them in many ways

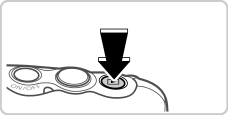
- To prepare the camera for these operations, press the ▶ button to enter Playback mode.

It may not be possible to play back or edit images that were renamed or already edited on a computer, or images from other cameras.

Still Images Movies

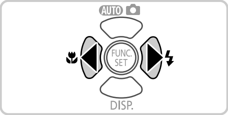
Viewing

After shooting images or movies, you can view them on the screen as follows.



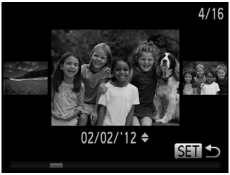
1 Enter Playback mode.

- Press the ▶ button.
- ▶ Your last shot is displayed.

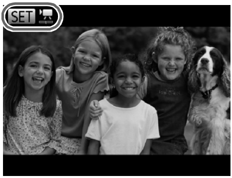


2 Browse through your images.

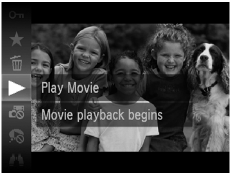
- To view the previous image, press the ◀ button. To view the next image, press the ▶ button.

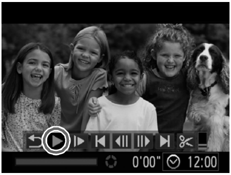


- To access Scroll Display mode, press and hold the ◀▶ buttons for at least one second. In this mode, press the ◀▶ buttons to browse through images.
- To return to single-image display, press the FUNC. SET button.
- To browse images grouped by shooting date, press the ▲▼ buttons in Scroll Display mode.



- Movies are identified by a SET 🎞 icon. To play movies, go to step 3.





3 Play movies.

- To start playback, press the (FUNC. SET) button, press the ▲▼ buttons to choose ▶, and then press the (FUNC. SET) button again.

4 Adjust the volume.

- Press the ▲▼ buttons to adjust the volume.

5 Pause playback.

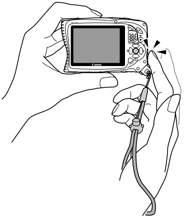
- To pause playback, press the (FUNC. SET) button. The movie control panel is displayed. To resume playback, press the ◀▶ buttons to choose ▶, and then press the (FUNC. SET) button.
- ▶ After the movie is finished, SET 🎞 is displayed.

- To switch to Shooting mode from Playback mode, press the shutter button halfway.
- To deactivate Scroll Display, press the MENU button, choose [Scroll Display] on the ▶ tab, and then choose [Off].
- For playback from the last image viewed, press the MENU button, choose [Resume] on the ▶ tab, and then [Last seen].
- To change the transition shown between images, press the MENU button, choose [Transition] on the ▶ tab, and then press the ◀▶ buttons to choose the effect.

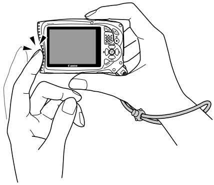
Still Images Movies

Active Display

To switch images during image display, you can tap the camera gently on the side, as shown below.



Switch to next image



Switch to previous image

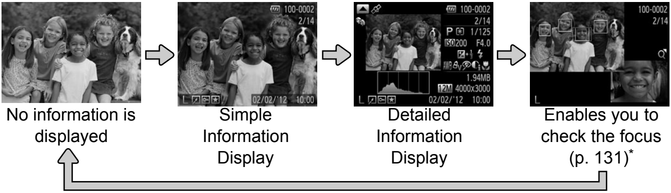
- Always keep the strap around your wrist and hold the camera securely to avoid dropping it.
- Images may not be switched in some cases, depending on how the camera is tapped.

- To switch images quickly while images are selected as described in step 2 on p. 126 (after you press the MENU button and deactivate [Scroll Display] on the ▶ tab), hold down ◀ and tilt the camera. Note that images appear grainy at this time.
- To deactivate Active Display, press the MENU button, choose [Active Display] on the ▶ tab, and then choose [Off] (p. 46).

Still Images Movies

Switching Display Modes

Press the ▼ button to view other information on the screen, or to hide the information. For details on the information displayed, see p. 204.



No information is displayed

Simple Information Display

Detailed Information Display

Enables you to check the focus (p. 131)*

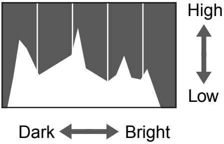
*Not shown for movies.

- Switching display modes by pressing the ▼ button is also possible immediately after you shoot, while your shot is displayed. However, simple information display is not available. To change the initial display mode, press the MENU button and choose [Review Info] on the 📷 tab (p. 80).

Overexposure Warning (for Image Highlights)

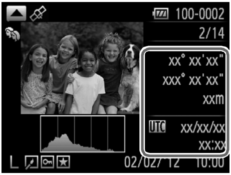
Washed-out highlights in the image flash on the screen in detailed information display.

Histogram



- The graph in detailed information display (p. 206) is a histogram showing the distribution of brightness in the image. The horizontal axis represents the degree of brightness, and the vertical axis, how much of the image is at each level of brightness. Viewing the histogram is a way to check exposure.

GPS Information Display



- To view still image and movie location information (latitude, longitude, and elevation recorded when [GPS] was set to [On] (p. 52)) and the shooting date and time, press the ▲ button in detailed information display. Latitude, longitude, elevation, and UTC are listed from top to bottom.
- Press the ▲ button again to return to detailed information display.

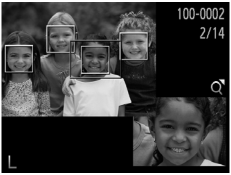
- [---] shown instead of numerical values indicates that the information was not received from GPS satellites, or that accurate positioning was not possible.

- UTC: Coordinated Universal Time, essentially the same as Greenwich Mean Time

Still Images

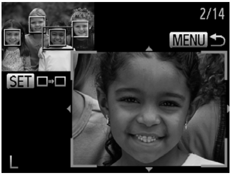
Checking the Focus

To check the focus of your shots, you can magnify the area of the image that was in the AF frame at the time of shooting.



1 Access Focus Check.

- Press the ▼ button (p. 129).
- ▶ A white frame is displayed where the AF frame was when the focus was set.
- ▶ Gray frames are displayed over faces detected later, in Playback mode.
- ▶ The portion of the image in the orange frame is magnified.



2 Switch frames.

- Press the 🔍 zoom button once.
- ▶ The screen at left is displayed.
- To switch to a different frame when there are multiple frames, press the FUNC. SET button.

3 Zoom in or out, or view other image areas.

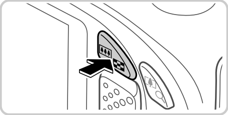
- As you examine the focus, press the zoom buttons to zoom in or out. Press the ▲▼◀▶ buttons to adjust the display position.
- Press the MENU button to restore the original display in step 1.

Browsing and Filtering Images

Still Images　Movies

Navigating Through Images in an Index

By displaying multiple images in an index, you can quickly find the images you are looking for.



1 Display images in an index.

- Press the ▦ zoom button to display images in an index. Pressing the button again will increase the number of images shown.
- To display fewer images, press the Q zoom button. Fewer images are shown each time you press the button.

2 Choose an image.

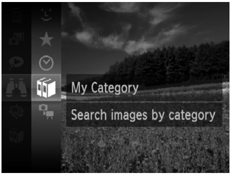
- Press the ▲▼◀▶ buttons to choose an image.
- ▶ An orange frame is displayed around the selected image.
- Press the (FUNC. SET) button to view the selected image in single-image display.

Still Images　Movies

Searching for Images

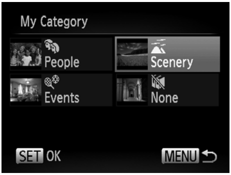
When looking for images on a memory card containing many images, you can specify search conditions to display specific images only. You can also protect (p. 138) or erase (p. 142) all images in a search result at once.

★	Favorites	Displays images tagged as favorites (p. 146).
◷	Shot Date	Displays the images shot on a specific date.
📚	My Category	Displays the images of a specific category (p. 147).
📷	Still Image/Movie	Displays still images, movies, or movies shot in 🎥 mode.



1 Choose a search condition.

- Press the (FUNC./SET) button, choose 🔍 in the menu, and choose a condition (p. 45).



2 View the image search results.

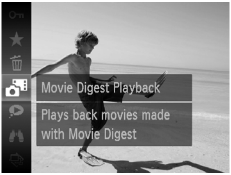
- Choose the type of images to view by pressing the ▲▼◀▶ buttons, and then press the (FUNC./SET) button. (Except when searching images by ★ .)
- Images matching the search conditions will display inside a yellow frame.
- Press the ◀▶ buttons to view image search results.
- Choose 🔍✕ in step 1 to cancel image search.

- When the camera has found no corresponding images for a search condition, those search conditions will not be available.

- Options for viewing images in a search result (step 2) include "Navigating Through Images in an Index" (p. 132), "Magnifying Images" (p. 135), and "Viewing Slideshows" (p. 136). You can protect, erase, or print all images in a search result at once by choosing "Select All Images in Search" in "Protecting Images" (p. 138), "Erasing All Images" (p. 142), "Adding Images to the Print List (DPOF)" (p. 188), or "Adding Images to a Photobook" (p. 192).
- If you recategorize images (p. 147) or edit them and save them as new images (pp. 150 – 154), a message is displayed and image search ends.

Viewing Movie Digest Movies

Movies created in 🎬 mode (p. 94) can be viewed by date.



Plays back movies made with Movie Digest

1 Choose a movie.

- Press the (FUNC. SET) button, choose [Movie Digest Playback] in the menu, and choose the date (p. 45).

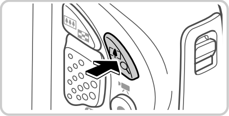
2 Play the movie.

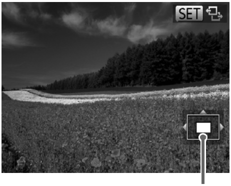
- Press the (FUNC. SET) button to start movie playback.

Image Viewing Options

Still Images

Magnifying Images





Approximate Position of Displayed Area

1 Magnify an image.

- Pressing the 🔍 zoom button will zoom in and magnify the image. You can magnify images up to about 10x by continuing to hold the button down.
- To zoom out, press the ▦ zoom button. You can return to single-image display by continuing to hold it.

2 Move the display position and switch images as needed.

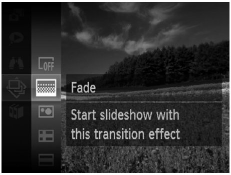
- To move the display position, press the ▲▼◀▶ buttons.
- While SET ⇄ is displayed, you can switch to SET ✥ by pressing the (FUNC SET) button. To switch to other images while zoomed, press the ◀▶ buttons. Press the (FUNC SET) button again to restore the original setting.

- You can return to single-image display from magnified display by pressing the MENU button.
- To switch images during magnified image display, you can also tap the camera gently on the side (p. 128).

Still Images Movies

Viewing Slideshows

Automatically play back images from a memory card as follows. Each image is displayed for about three seconds.



Start slideshow with this transition effect

Choose a slideshow transition and start playback.

- Press the (FUNC/SET) button, choose ⇩ in the menu, and choose the desired option (p. 45).
- ▷ The slideshow will start a few seconds after [Loading image...] is displayed.
- Press the MENU button to stop the slideshow.

- The camera's power-saving functions (p. 42) are deactivated during slideshows.

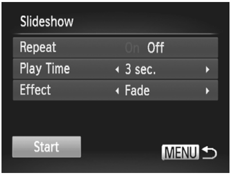
- To pause or resume slideshows, press the (FUNC/SET) button.
- You can switch to other images during playback by pressing the ◀▶ buttons. For fast-forward or fast-rewind, hold the ◀▶ buttons down.
- In image search mode (p. 132), only images matching search conditions are played.

Changing Slideshow Settings

You can set up slideshows to repeat, and you can change the transitions between images and the display duration of each image. Choose from six transition effects between images.

1 Access the setting screen.

- Press the MENU button and choose [Slideshow] on the ▶ tab (p. 46).



Slideshow

Repeat On Off

Play Time ◂ 3 sec. ▸

Effect ◂ Fade ▸

2 Configure the settings.

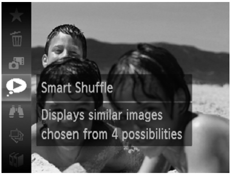
- Choose a menu item to configure, and then choose the desired option (p. 46).
- To start the slideshow with your settings, choose [Start] and press the (FUNC/SET) button.
- To return to the menu screen, press the MENU button.

- [Play Time] cannot be modified when [Bubble] is chosen in [Effect].

Still Images

Auto Playback of Similar Images (Smart Shuffle)

Based on the current image, the camera offers four images similar to it that you may wish to view. After you choose to view one of those images, the camera offers four more images. This is an enjoyable way to play back images in an unexpected order. Try this feature after you have taken many shots, in many kinds of scenes.

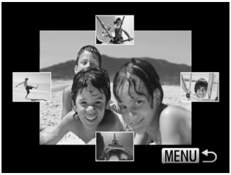


Smart Shuffle

Displays similar images chosen from 4 possibilities

1 Choose Smart Shuffle.

- Press the FUNC./SET button, and then choose in the menu (p. 45).
- ▶ Four candidate images are displayed.



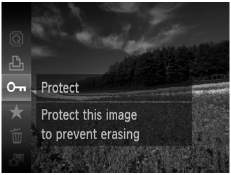
2 Choose an image.

- Press the ▲▼◀▶ buttons to choose the image you want to view next.
- ▶ Your chosen image is displayed in the center, surrounded by the next four candidate images.
- For full-screen display of the center image, press the FUNC./SET button. To restore the original display, press the FUNC./SET button again.
- Press the MENU button to restore single-image display.

- Only still images shot with this camera are played back using Smart Shuffle.
- [Smart Shuffle] is not available in the following cases:
  - There are less than 50 shots taken with this camera
  - An unsupported image is currently displayed
  - When using the image search function (p. 132)

Protecting Images

Protect important images to prevent accidental erasure by the camera (p. 142).



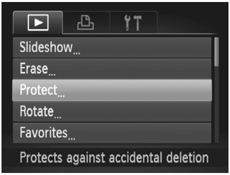
Protect this image to prevent erasing

- Press the FUNC. SET button, and then choose 🔑 in the menu (p. 45). [Protected] is displayed.
- To cancel protection, repeat this process and choose 🔑 again, and then press the FUNC. SET button.

- Protected images on a memory card will be erased if you format the card (pp. 161, 162).

- Protected images cannot be erased by the camera. To erase them, cancel protection settings first.

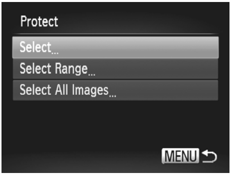
Using the Menu



Protects against accidental deletion

1 Access the setting screen.

- Press the MENU button, and then choose [Protect] on the ▶ tab (p. 46).



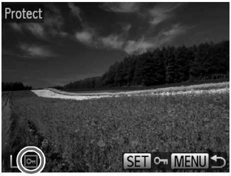
2 Choose a selection method.

- Choose a menu item and a setting as desired (p. 46).
- To return to the menu screen, press the MENU button.

Choosing Images Individually

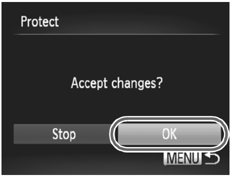
1 Choose [Select].

- Following step 2 on p. 138, choose [Select] and press the (FUNC. SET) button.



2 Choose an image.

- Press the ◀▶ buttons to choose an image, and then press the (FUNC. SET) button. ⊶ is displayed.
- To cancel protection, press the (FUNC. SET) button again. ⊶ is no longer displayed.
- Repeat this process to specify other images.



Accept changes?

3 Protect the image.

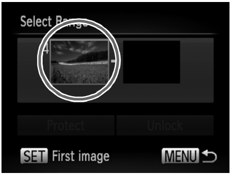
- Press the MENU button. A confirmation message is displayed.
- Press the ◀▶ buttons to choose [OK], and then press the (FUNC. SET) button.

- Images will not be protected if you switch to Shooting mode or turn the camera off before finishing the setup process in step 3.

Selecting a Range

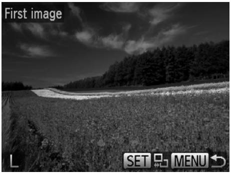
1 Choose [Select Range].

- Following step 2 on p. 138, choose [Select Range] and press the FUNC. SET button.

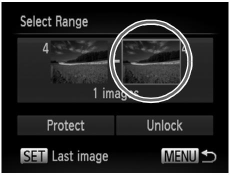


2 Choose a starting image.

- Press the FUNC. SET button.

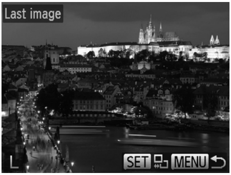


- Press the ◀▶ buttons to choose an image, and then press the FUNC. SET button.

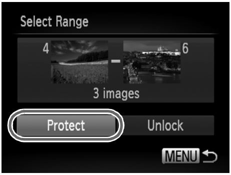


3 Choose an ending image.

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



- Press the ◀▶ buttons to choose an image, and then press the FUNC. SET button.
- Images before the first image cannot be selected as the last image.



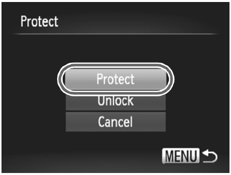
4 Protect the images.

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

Specifying All Images at Once

1 Choose [Select All Images].

- Following step 2 on p. 138, choose [Select All Images] and press the FUNC./SET button.



2 Protect the images.

- Press the ▲▼ buttons to choose [Protect], and then press the FUNC./SET button.

- To cancel protection for groups of images, choose [Unlock] in step 4 of “Selecting a Range” or in step 2 of “Specifying All Images at Once”.

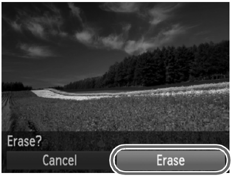
Still Images Movies

Erasing Images

You can choose and erase unneeded images one by one. Be careful when erasing images, because they cannot be recovered.

1 Choose an image to erase.

- Press the ◀▶ buttons to choose an image.



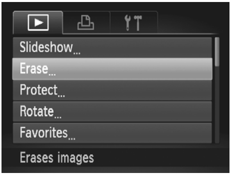
2 Erase the image.

- Press the FUNC. SET button, and then choose 🗑 in the menu (p. 45).
- After [Erase?] is displayed, press the ◀▶ buttons to choose [Erase], and then press the FUNC. SET button.
- ▶ The current image is now erased.
- To cancel erasure, press the ◀▶ buttons to choose [Cancel], and then press the FUNC. SET button.

Erasing All Images

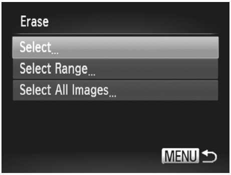
You can erase all images at once. Be careful when erasing images, because they cannot be recovered. Protected images (p. 138) cannot be erased.

Choosing a Selection Method



1 Access the setting screen.

- Press the MENU button, and then choose [Erase] on the ▶ tab (p. 46).



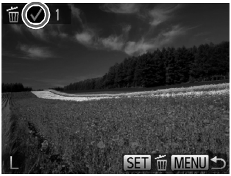
2 Choose a selection method.

- Choose a menu item and a setting as desired (p. 46).
- Press the ▲▼ buttons to choose a selection method, and then press the FUNC. SET button.
- To return to the menu screen, press the MENU button.

Choosing Images Individually

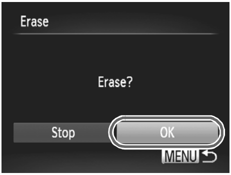
1 Choose [Select].

- Following step 2 on p. 142, choose [Select] and press the FUNC. SET button.



2 Choose an image.

- Once you follow step 2 on p. 139 to choose an image, ✓ is displayed.
- To cancel erasure, press the FUNC. SET button again. ✓ is no longer displayed.
- Repeat this process to specify other images.



3 Erase the image.

- Press the MENU button. A confirmation message is displayed.
- Press the ◀▶ buttons to choose [OK], and then press the FUNC. SET button.

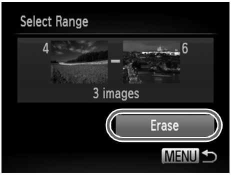
Selecting a Range

1 Choose [Select Range].

- Following step 2 on p. 142, choose [Select Range] and press the FUNC. SET button.

2 Choose images.

- Follow steps 2 – 3 on p. 140 to specify images.



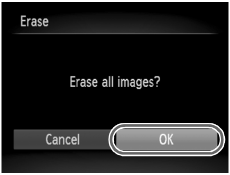
3 Erase the images.

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

Specifying All Images at Once

1 Choose [Select All Images].

- Following step 2 on p. 142, choose [Select All Images] and press the (FUNC/SET) button.



Erase

Erase all images?

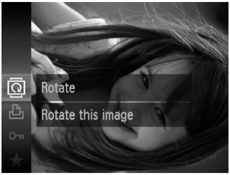
2 Erase the images.

- Press the ◀▶ buttons to choose [OK], and then press the (FUNC/SET) button.

Still Images Movies

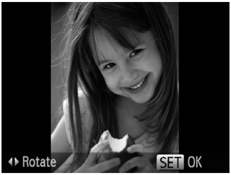
Rotating Images

Change the orientation of images and save them as follows.



1 Choose ⟲.

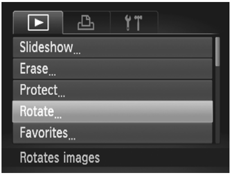
- Press the (FUNC/SET) button, and then choose ⟲ in the menu (p. 45).



2 Rotate the image.

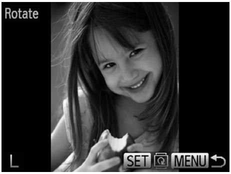
- Press the ◀ or ▶ button, depending on the desired direction. Each time you press the button, the image is rotated 90°. Press the (FUNC/SET) button to complete the setting.

Using the Menu



1 Choose [Rotate].

- Press the MENU button, and then choose [Rotate] on the ▶ tab (p. 46).



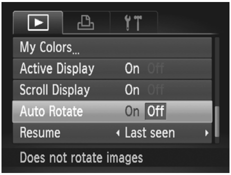
2 Rotate the image.

- Press the ◀▶ buttons to choose an image.
- The image is rotated 90° each time you press the FUNC. SET button.
- To return to the menu screen, press the MENU button.

- Movies with an image quality of 1920 or 1280 cannot be rotated.
- Rotation is not possible when [Auto Rotate] is set to [Off] (p. 145).

Deactivating Auto Rotation

Follow these steps to deactivate automatic rotation by the camera, which rotates images shot in vertical orientation so they are displayed vertically on the camera.



- Press the MENU button, choose [Auto Rotate] on the ▶ tab, and then choose [Off] (p. 46).

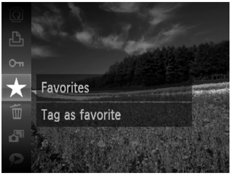
- Images cannot be rotated (p. 144) when you set [Auto Rotate] to [Off]. Additionally, images already rotated will be displayed in the original orientation.
- In Smart Shuffle (p. 137) mode, even if [Auto Rotate] is set to [Off], images shot vertically will be displayed vertically, and rotated images will be displayed in the rotated orientation.

Image Categories

You can tag images as favorites or assign them to My Category (p. 147) groups. By choosing a category in image search, you can restrict the following operations to all of those images.

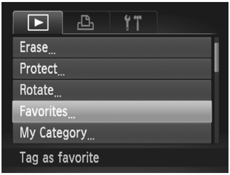
- Viewing (p.126), Viewing Slideshows (p.136), Protecting Images (p.138), Erasing Images (p.142), Adding Images to the Print List (DPOF) (p.188), Adding Images to a Photobook (p.192)

Tagging Images as Favorites



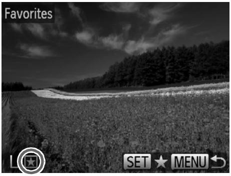
- Press the FUNC. SET button, and then choose ★ in the menu (p. 45).
- ▶ [Tagged as Favorite] is displayed.
- To untag the image, repeat this process and choose ★ again, and then press the FUNC. SET button.

Using the Menu



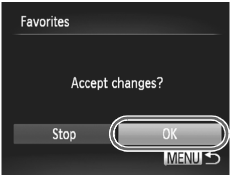
1 Choose [Favorites].

- Press the MENU button, and then choose [Favorites] on the ▶ tab (p. 46).



2 Choose an image.

- Press the ◀▶ buttons to choose an image, and then press the FUNC. SET button. [★] is displayed.
- To untag the image, press the FUNC. SET button again. [★] is no longer displayed.
- Repeat this process to choose additional images.



3 Finish the setup process.

- Press the MENU button. A confirmation message is displayed.
- Press the ◀▶ buttons to choose [OK], and then press the FUNC./SET button.

- Images will not be tagged as favorites if you switch to Shooting mode or turn the camera off before finishing the setup process in step 3.

- Favorite images will have a three-star rating (★★★☆☆) when transferred to computers running Windows 7 or Windows Vista. (Does not apply to movies.)

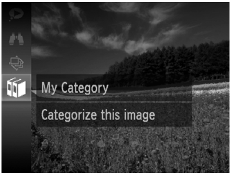
Organizing Images by Category (My Category)

You can organize images into categories. Note that images are automatically categorized at the time of shooting, according to shooting conditions.

👥: Images with detected faces, or images shot in 👤 mode.

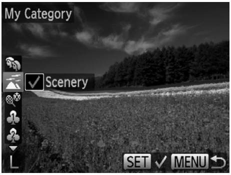
🏞: Images detected as 🏞, 🌅, or 🌙 in AUTO mode, or images shot in 📷 mode.

⚽: Images shot in 🐟, 🎆, ⛄, or ❄ mode.



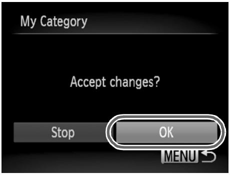
1 Choose a category.

- Press the FUNC./SET button, and then choose 📚 in the menu (p. 45).



2 Choose images.

- Press the ◀▶ buttons to choose an image, press the ▲▼ buttons to choose a category, and then press the FUNC./SET button. ✓ is displayed.
- To cancel selection, press the FUNC./SET button again. ✓ is no longer displayed.
- Repeat this process to specify other images.



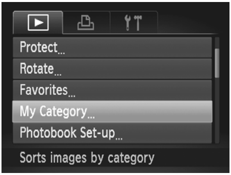
Accept changes?

3 Finish the setup process.

- Press the MENU button. A confirmation message is displayed.
- Press the ◀▶ buttons to choose [OK], and then press the FUNC./SET button.

- Images will not be assigned to a category if you switch to Shooting mode or turn the camera off before finishing the setup process in step 3.

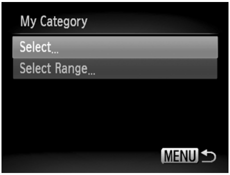
Using the Menu



Sorts images by category

1 Access the setting screen.

- Press the MENU button, and then choose [My Category] on the ▶ tab (p. 46).



2 Choose a selection method.

- Choose a menu item and a setting as desired (p. 46).
- To return to the menu screen, press the MENU button.

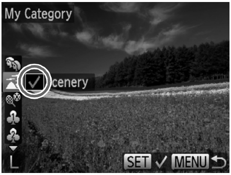
Choosing Images Individually

1 Choose [Select].

- Following step 2 on p. 138, choose [Select] and press the FUNC./SET button.

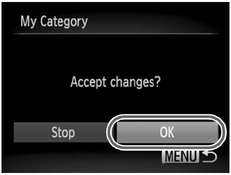
2 Choose an image.

- Press the ◀▶ buttons to choose an image.



3 Choose a category.

- Press the ▲▼ buttons to choose a category, and then press the FUNC./SET button. ✓ is displayed.
- To cancel selection, press the FUNC./SET button again. ✓ is no longer displayed.
- Repeat this process to choose additional images.



Accept changes?

4 Finish the setup process.

- Press the MENU button. A confirmation message is displayed. Press the ◀▶ buttons to choose [OK], and then press the FUNC./SET button.

- Images will not be assigned to a category if you switch to Shooting mode or turn the camera off before finishing the setup process in step 4.

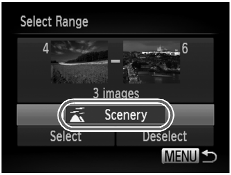
Selecting a Range

1 Choose [Select Range].

- Following step 2 on p. 148, choose [Select Range] and press the FUNC./SET button.

2 Choose images.

- Follow steps 2 – 3 on p. 140 to specify images.



3 Choose a category.

- Press the ▼ button to choose the type of image, and then press the ◀▶ buttons to choose a category.

4 Finish the setup process.

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

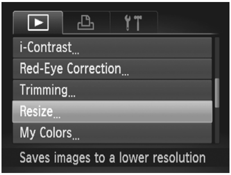
- You can clear the selection of all images in the [Select Range] category by choosing [Deselect] in step 4.

Editing Still Images

- Image editing (pp. 150 – 154) is only available when the memory card has sufficient free space.

Resizing Images

Save a copy of images at a lower resolution.

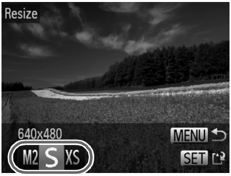


1 Choose [Resize].

- Press the MENU button, and then choose [Resize] on the ▶ tab (p. 46).

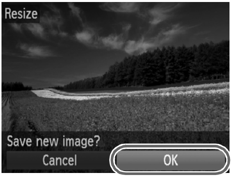
2 Choose an image.

- Press the ◀▶ buttons to choose an image, and then press the FUNC./SET button.



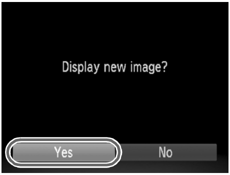
3 Choose an image size.

- Press the ◀▶ buttons to choose the size, and then press the FUNC./SET button.
- ▶ [Save new image?] is displayed.



4 Save the new image.

- Press the ◀▶ buttons to choose [OK], and then press the FUNC./SET button.
- ▶ The image is now saved as a new file.



5 Review the new image.

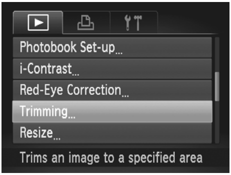
- Press the MENU button. [Display new image?] is displayed.
- Press the ◀▶ buttons to choose [Yes], and then press the FUNC./SET button.
- ▶ The saved image is now displayed.

- Editing is not possible for images saved as XS in step 3.

- Images cannot be resized to a higher resolution.

Cropping

You can specify a portion of an image to save as a separate image file.



Trims an image to a specified area

1 Choose [Trimming].

- Press the MENU button, and then choose [Trimming] on the ▶ tab (p. 46).

2 Choose an image.

- Press the ◀▶ buttons to choose an image, and then press the (FUNC. SET) button.

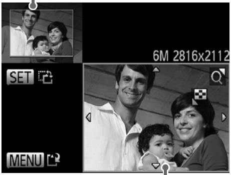
3 Adjust the cropping area.

- ▶ A frame is displayed around the portion of the image to be cropped.
- ▶ The original image is shown in the upper left, and a preview of the image as cropped is shown in the lower right.
- To resize the frame, press the zoom buttons.
- To move the frame, press the ▲▼◀▶ buttons.
- To change the frame orientation, press the (FUNC. SET) button.
- Press the MENU button.

4 Save as a new image and review.

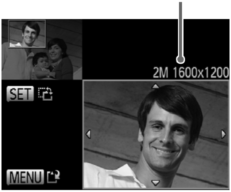
- Follow steps 4 – 5 on p. 150.

Cropping Area



Preview of Image After Cropping

Resolution After Cropping

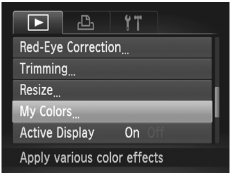


- Editing is not possible for images shot at a resolution of S (p. 72) or resized to XS (p. 150).

- Images supported for cropping will have the same aspect ratio after cropping.
- Cropped images will have a smaller resolution than uncropped images.

Changing Image Color Tones (My Colors)

You can adjust image colors and then save the edited image as a separate file. For details on each option, see p. 110.

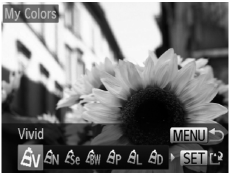


1 Choose [My Colors].

- Press the MENU button, and then choose [My Colors] on the ▶ tab (p. 46).

2 Choose an image.

- Press the ◀▶ buttons to choose an image, and then press the FUNC/SET button.



3 Choose an option.

- Press the ◀▶ buttons to choose an option, and then press the FUNC/SET button.

4 Save as a new image and review.

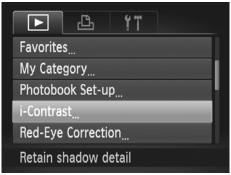
- Follow steps 4 – 5 on p. 150.

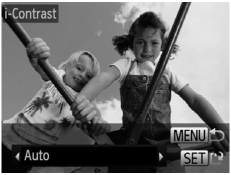
- Image quality of pictures you repeatedly edit this way will be a little lower each time, and you may not be able to obtain the desired color.

- The color of images edited using this function may vary slightly from the color of images shot using My Colors (p. 110).

Correcting Image Brightness (i-Contrast)

Excessively dark image areas (such as faces or backgrounds) can be detected and automatically adjusted to the optimal brightness. Insufficient overall image contrast is also automatically corrected, to make subjects stand out better. Choose from four correction levels, and then save the image as a separate file.





1 Choose [i-Contrast].

- Press the MENU button, and then choose [i-Contrast] on the ▶ tab (p. 46).

2 Choose an image.

- Press the ◀▶ buttons to choose an image, and then press the FUNC./SET button.

3 Choose an option.

- Press the ◀▶ buttons to choose an option, and then press the FUNC./SET button.

4 Save as a new image and review.

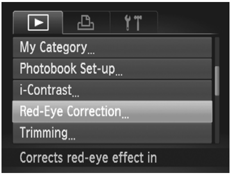
- Follow steps 4 – 5 on p. 150.

- For some images, correction may be inaccurate or may cause images to appear grainy.
- Images may look grainy after repeated editing using this function.

- If [Auto] does not produce the expected results, try correcting images using [Low], [Medium], or [High].

Correcting Red-Eye

Automatically corrects images affected by red-eye. You can save the corrected image as a separate file.



1 Choose [Red-Eye Correction].

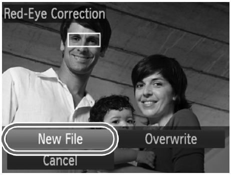
- Press the MENU button, and then choose [Red-Eye Correction] on the ▶ tab (p. 46).

2 Choose an image.

- Press the ◀▶ buttons to choose an image.

3 Correct the image.

- Press the FUNC./SET button.
- ▶ Red-eye detected by the camera is now corrected, and frames are displayed around corrected image areas.
- Enlarge or reduce images as needed. Follow the steps in “Magnifying Images” (p. 135).



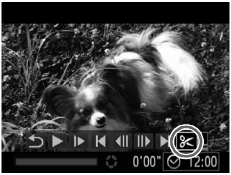
4 Save as a new image and review.

- Press the ▲▼◀▶ buttons to choose [New File], and then press the FUNC./SET button.
- ▶ The image is now saved as a new file.
- Follow step 5 on p. 150.

- Some images may not be corrected accurately.
- To overwrite the original image with the corrected image, choose [Overwrite] in step 4. In this case, the original image will be erased.
- Protected images cannot be overwritten.

Editing Movies

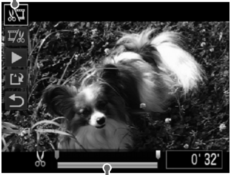
You can cut movies to remove unneeded portions at the beginning or end.



1 Choose ✂.

- Following steps 1 – 5 on pp. 126 – 127, choose ✂ and press the FUNC./SET button.
- ▶ The movie editing panel and editing bar are now displayed.

Movie Editing Panel



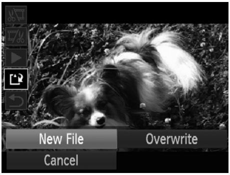
Movie Editing Bar

2 Specify portions to cut.

- Press the ▲▼ buttons to choose ✂▯ or ▯✂.
- To view the portions you can cut (identified by ✂ on the screen), press the ◀▶ buttons to move ▮. Cut the beginning of the movie (from ✂) by choosing ✂▯, and cut the end of the movie by choosing ▯✂.
- Even if you move ▮ to a position other than a ✂ mark, choosing ✂▯ will only cut the portion from the nearest ✂ to the left, and choosing ▯✂ will cut the portion from the nearest ✂ to the right.

3 Review the edited movie.

- Press the ▲▼ buttons to choose ▶, and then press the FUNC./SET button. The edited movie is now played.
- To edit the movie again, repeat step 2.
- To cancel editing, press the ▲▼ buttons to choose ↶. Press the FUNC./SET button, press the ◀▶ buttons to choose [OK], and then press the FUNC./SET button again.



4 Save the edited movie.

- Press the ▲▼ buttons to choose ⎘, and then press the FUNC. SET button.
- Press the ◄► buttons to choose [New File], and then press the FUNC. SET button.
- ▶ The movie is now saved as a new file.

- To overwrite the original movie with the cut one, choose [Overwrite] in step 4. In this case, the original movie will be erased.
- [Overwrite] is only available when memory cards lack sufficient free space.
- Movies may not be saved if the battery runs out while saving is in progress.
- When editing movies, you should use a fully charged battery or an AC adapter kit (sold separately, p. 169).

7

Setting Menu

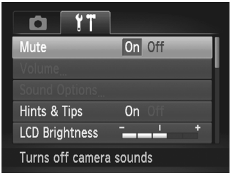
Customize or adjust basic camera functions for greater convenience

Adjusting Basic Camera Functions

Functions can be configured on the 🔧 tab. Customize commonly used functions as desired, for greater convenience (p. 46).

Silencing Camera Operations

Silence camera sounds and movies as follows.



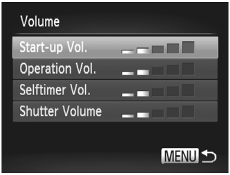
Mute: On
Hints & Tips: On
Turns off camera sounds

- Choose [Mute], and then choose [On].

- Operation can also be silenced by holding down the ▼ button as you turn the camera on.
- Sound is not played during movies if you mute camera sounds (p. 126). To restore sound during movies, press the ▲ button. Adjust volume with the ▲▼ buttons, as needed.

Adjusting the Volume

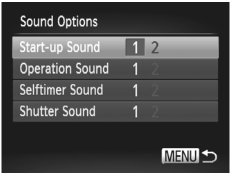
Adjust the volume of individual camera sounds as follows.



- Choose [Volume], and then press the (FUNC. SET) button.
- Choose an item, and then press the ◀▶ buttons to adjust the volume.

Customizing Sounds

Customize camera operating sounds as follows.

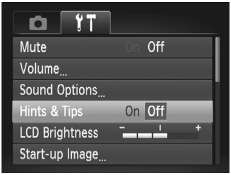


- Choose [Sound Options], and then press the FUNC. SET button.
- Choose an item, and then press the ◀▶ buttons to choose an option.

1	Preset sounds (cannot be modified)
2	Preset sounds Can be changed by using the included software.

Hiding Hints and Tips

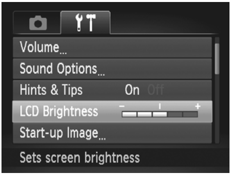
Hints and tips are normally shown when you choose FUNC. menu (p. 45) or Menu (p. 46) items. If you prefer, you can deactivate this information.



- Choose [Hints & Tips], and then choose [Off].

Screen Brightness

Adjust screen brightness as follows.

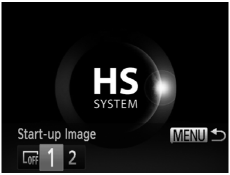


- Choose [LCD Brightness], and then press the ◀▶ buttons to adjust the brightness.

- For maximum brightness, press and hold the ▼ button for at least one second when the shooting screen is displayed or when in single-image display. (This will override the [LCD Brightness] setting on the 🔧 tab.) To restore the original brightness, press and hold the ▼ button again for at least one second or restart the camera.

Start-up Screen

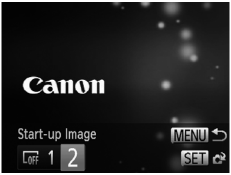
Customize the start-up screen shown after you turn the camera on as follows.



- Choose [Start-up Image], and then press the (FUNC SET) button.
- Press the ◀▶ buttons to choose an option.

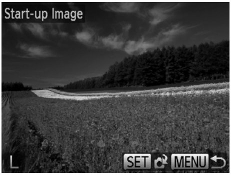
OFF	No start-up image
1	Preset image (cannot be modified)
2	Preset image Assign a desired shot, or use the included software to change the image.

Customizing the Start-up Screen



1 Access the [Start-up Image] screen in Playback mode.

- Press the ▶ button.
- Following the previous procedure, choose [2] and press the FUNC. SET button.



2 Choose one of your shots.

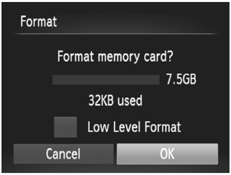
- Choose an image and press the FUNC. SET button. After [Register?] is displayed, press the ◀▶ buttons to choose [OK], and then press the FUNC. SET button.

- The previous start-up setting is overwritten when you assign a new start-up image.

- You can assign the operating sounds and start-up image for your camera from the included software. For details, refer to the *ImageBrowser EX User Guide* (p. 28).

Formatting Memory Cards

Before using a new memory card or a card formatted in another device, you should format the card with this camera.
Formatting erases all data on a memory card. Before formatting, copy images on the memory card to a computer, or take other steps to back them up.
An Eye-Fi card (p. 194) contains software on the card itself. Before formatting an Eye-Fi card, install the software on a computer.


Format

Format memory card?

7.5GB

32KB used

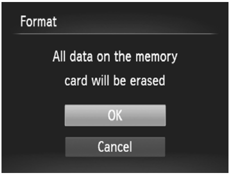
☐ Low Level Format

1 Access the [Format] screen.

- Choose [Format], and then press the FUNC. SET button.

2 Choose [OK].

- Press the ◀▶ buttons to choose [OK], and then press the FUNC. SET button.



All data on the memory card will be erased

3 Format the memory card.

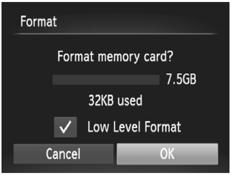
- To begin the formatting process, press the ▲▼ buttons to choose [OK], and then press the FUNC./SET button.
- When formatting is finished, [Memory card formatting complete] is displayed. Press the FUNC./SET button.

- Formatting or erasing data on a memory card only changes file management information on the card and does not erase the data completely. When transferring or disposing of memory cards, take steps to protect personal information if necessary, as by physically destroying cards.

- The total card capacity indicated on the formatting screen may be less than the advertised capacity.

Low-Level Formatting

Perform low-level formatting in these cases: [Memory card error] is displayed, the camera is not working correctly, card image reading/writing is slower, continuous shooting is slower, or movie recording suddenly stops. Low-level formatting erases all data on a memory card. Before low-level formatting, copy images on the memory card to a computer, or take other steps to back them up.



Format memory card?

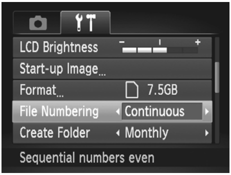
Perform low-level formatting.

- On the screen in step 2 on p. 161, press the ▲▼ buttons to choose [Low Level Format], and then select this option (mark with a ✓) by pressing the ◀▶ buttons.
- Press the ▲▼◀▶ buttons to choose [OK], press the FUNC./SET button, and then follow step 3 on p. 162 to format (low-level format) the memory card.

- Low-level formatting takes longer than “Formatting Memory Cards” (p. 161), because data is erased from all storage regions of the memory card.
- You can cancel low-level formatting in progress by choosing [Stop]. In this case, all data will be erased, but the memory card can be used normally.

File Numbering

Your shots are automatically numbered in sequential order (0001 – 9999) and saved in folders that store up to 2,000 images each. You can change how the camera assigns file numbers.


LCD Brightness
Start-up Image...
Format... 7.5GB
File Numbering ◂ Continuous ▸
Create Folder ◂ Monthly ▸
Sequential numbers even

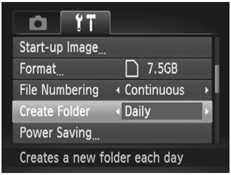
- Choose [File Numbering], and then choose an option.

Continuous	Images are numbered consecutively (until the 9999th shot is taken/saved) even if you switch memory cards.
Auto Reset	Image numbering is reset to 0001 if you switch memory cards, or when a new folder is created.

- Regardless of the option selected in this setting, shots may be numbered consecutively after the last number of existing images on newly inserted memory cards. To start saving shots from 0001, use an empty (or formatted (p. 161)) memory card.
- Refer to the *ImageBrowser EX User Guide* (p. 28) for information on the card folder structure and image formats.

Date-Based Image Storage

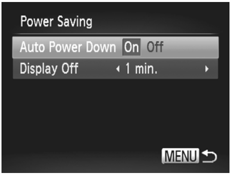
Instead of saving images in folders created each month, you can have the camera create folders each day you shoot to store shots taken that day.


Start-up Image...
Format... 7.5GB
File Numbering ◂ Continuous ▸
Create Folder ◂ Daily ▸
Power Saving...
Creates a new folder each day

- Choose [Create Folder], and then choose [Daily].
- ▶ Images will now be saved in folders created on the shooting date.

Power-Saving Adjustment

Adjust the timing of automatic camera and screen deactivation (Auto Power Down and Display Off, respectively) as needed (p. 42).



Power Saving

Auto Power Down On Off

Display Off ◀ 1 min. ▶

1 Access the [Power Saving] screen.

- Choose [Power Saving], and then press the (FUNC. SET) button.

2 Configure the settings.

- After choosing an item, press the ◀▶ buttons to adjust it as needed.

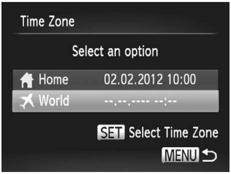
- To conserve battery power, you should normally choose [On] for [Auto Power Down] and [1 min.] or less for [Display Off].

- The [Display Off] setting is applied even if you set [Auto Power Down] to [Off].

World Clock

To ensure that your shots will have the correct local date and time when you travel abroad, simply register the destination in advance and switch to that time zone. This convenient feature eliminates the need to change the Date/ Time setting manually.

Before using the world clock, be sure to set the date and time (p. 19) and your home time zone.



Time Zone

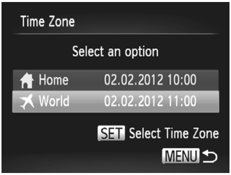
Select an option

Home 02.02.2012 10:00

✈ World --.--.---- --:--

1 Specify your destination.

- Choose [Time Zone], and then press the (FUNC. SET) button.
- Press the ▲▼ buttons to choose [✈ World], and then press the (FUNC. SET) button.
- Press the ◀▶ buttons to choose the destination.
- To set daylight saving time (1 hour ahead), press the ▲▼ buttons to choose ☀.
- Press the (FUNC. SET) button.



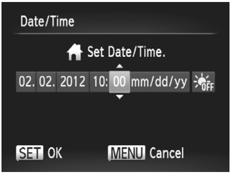
2 Switch to the destination time zone.

- Press the ▲▼ buttons to choose [✈ World], and then press the MENU button.
- ▶ ✈ is now shown on the shooting screen (p. 204).

- Adjusting the date or time while in ✈ mode (p. 21) will automatically update your [🏠 Home] time and date.

Date and Time

Adjust the date and time as follows.



1 Access the [Date/Time] screen.

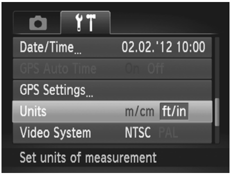
- Choose [Date/Time], and then press the FUNC./SET button.

2 Configure the setting.

- Press the ◀▶ buttons to choose an item, and then press the ▲▼ buttons to adjust the setting.

Metric/Non-Metric Display

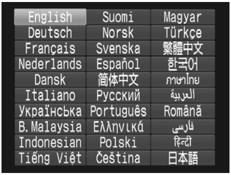
Change the unit of measurement shown in the MF indicator (p. 114), zoom bar (p. 59), and GPS altitude information (p. 52) from m/cm to ft/in as needed.



- Choose [Units], and then choose [ft/in].

Display Language

Change the display language as needed.



1 Access the [Language] screen.

- Choose [Language 🗨], and then press the FUNC. SET button.

2 Configure the setting.

- Press the ▲▼◀▶ buttons to choose a language, and then press the FUNC. SET button.

- You can also access the [Language] screen in Playback mode by pressing and holding the FUNC. SET button and immediately pressing the MENU button.

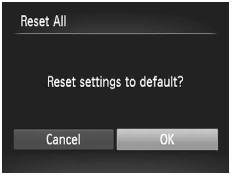
Adjusting Other Settings

The following settings can also be adjusted on the 🔧 tab.

- [GPS Settings] (p. 51)
- [Time Update] (p. 56)
- [Video System] (p. 175)
- [Ctrl via HDMI] (p. 173)
- [Eye-Fi Settings] (p. 194)

Restoring Defaults

If you accidentally change a setting, you can restore default camera settings.



Reset settings to default?

1 Access the [Reset All] screen.

- Choose [Reset All], and then press the FUNC. SET button.

2 Restore default settings.

- Press the ◀▶ buttons to choose [OK], and then press the FUNC. SET button.
- ▶ Default settings are now restored.

- The following functions are not restored to default settings.
  - [Date/Time] (p. 21) on the 🔧 tab, [Language 🗨] (p. 22), sounds registered in [Sound Options] (p. 159), image registered in [Start-up Image] (p. 160), [Time Zone] (p. 164), and [Video System] (p. 175)
  - Custom white balance data you have recorded (p. 109)
  - Colors chosen in Color Accent (p. 91) or Color Swap (p. 92)
  - The shooting mode (p. 81)
  - Logged location information and shooting date and time (p. 52)

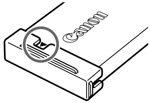
8

Accessories

Use included accessories effectively and enjoy the camera in more ways with optional Canon accessories and other compatible accessories sold separately

Tips on Using Included Accessories

Effective Battery and Charger Use

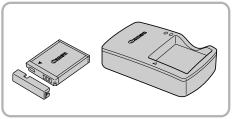


- **Charge the battery on (or immediately before) the day of use**
  Charged batteries gradually lose their charge, even when they are not used.
  You can easily check the charge state of the battery by attaching the cover so that ▲ is visible on a charged battery, and attaching it so that ▲ is not visible on an uncharged battery.
- **Long-term battery storage**
  After using up all remaining battery power, remove the battery from the camera. Store the battery with the cover attached. Storing a partially charged battery over extended periods (about a year) may shorten its life or affect performance.
- **Using the battery charger abroad**
  The charger can be used in areas with 100 – 240 V AC power (50/60 Hz). For power outlets in a different format, use a commercially available adapter for the plug. Never use an electrical transformer designed for traveling, which may damage the battery.

Optional Accessories

The following camera accessories are sold separately. Note that availability varies by area, and some accessories may no longer be available.

Power Supplies

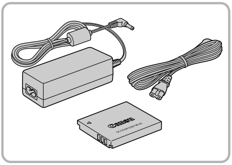


Battery Pack NB-6L

- Rechargeable lithium-ion battery

Battery Charger CB-2LY/CB-2LYE

- Charger for Battery Pack NB-6L



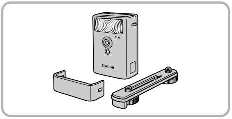
AC Adapter Kit ACK-DC40

- For powering the camera using household power. Recommended when using the camera over extended periods, or when connecting the camera to a printer or computer. Cannot be used to charge the camera battery.

- The battery charger and AC adapter kit can be used in areas with 100 – 240 V AC power (50/60 Hz).
- For power outlets in a different format, use a commercially available adapter for the plug. Never use an electrical transformer designed for traveling, which may damage the battery.

- The DC coupler included with AC Adapter Kit ACK-DC40 is not used.
- In addition to AC Adapter Kit ACK-DC40, these accessories can also be used with the camera: ACK-DC10, ACK-DC30, ACK-DC60, ACK-DC70, ACK-DC80, and ACK-DC90.

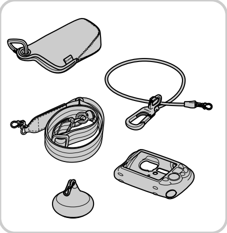
Flash Units



High-Power Flash HF-DC2

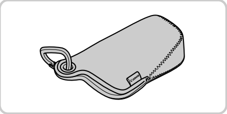
- External flash for illuminating subjects that are out of range of the built-in flash. High-Power Flash HF-DC1 can also be used.

Other Accessories



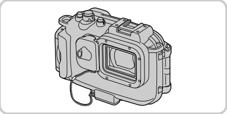
Accessories Kit AKT-DC2

- Includes a variety of camera accessories, such as a protective case, a convenient strap for carrying the camera, and a float to prevent the camera from sinking.



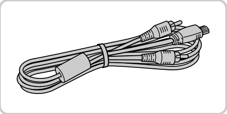
Soft Case SC-DC80

- Protects the camera from dust and scratches.



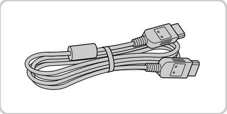
Waterproof Case WP-DC45

- For underwater photography at depths of up to 40 meters (130 ft.). Also useful for shooting in the rain, at the beach, or on ski slopes.



AV Cable AVC-DC400

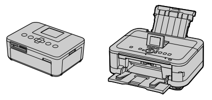
- Connect the camera to a TV to enjoy playback on the larger TV screen.



HDMI Cable HTC-100

- For connecting the camera to an HDMI input of a high-definition TV.

Printers



Canon PictBridge-Compatible Printers

- Printing images without a computer is possible by connecting the camera to a Canon PictBridge-compatible printer.
  For details, visit your nearest Canon dealer.

Using Optional Accessories

Still Images Movies

Playback on a TV

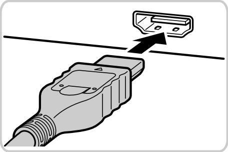
By connecting the camera to a TV, you can view your shots on the larger screen of the TV.
For details on connection or how to switch inputs, refer to the TV manual.

- Some information may not be displayed when viewing images on a TV (p. 206).

Playback on a High-Definition TV

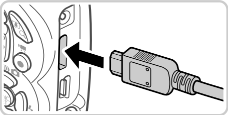
Connecting the camera to an HDTV with the HDMI Cable HTC-100 (sold separately) enables you to view your shots on the larger screen of the TV. Movies shot at a resolution of 1920 or 1280 can be viewed in high-definition.

1 Make sure the camera and TV are off.



2 Connect the camera to the TV.

- On the TV, insert the cable plug fully into the HDMI input as shown.



- On the camera, open the terminal cover and insert the cable plug fully into the camera terminal.

3 Display images.

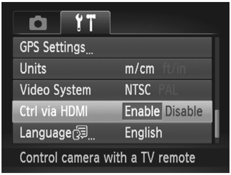
- Follow steps 3 – 4 on pp. 174 – 175 to display images.

- It is not possible to connect the included interface cable or an optional AV cable at the same time as an HDMI Cable HTC-100. Forcing the cables into the camera at the same time may damage the camera or cables.

- Camera operating sounds are not played while the camera is connected to an HDTV.

Controlling the Camera with a TV Remote

Connecting the camera to an HDMI CEC-compatible TV enables playback (including slideshow playback) using the TV remote control.
In this case, you will need to adjust some TV settings. For details, refer to the TV user manual.



GPS Settings...
Units m/cm ft/in
Video System NTSC PAL
Ctrl via HDMI Enable Disable
Language...English
Control camera with a TV remote

1 Configure the settings.

- Press the MENU button, choose [Ctrl via HDMI] on the 🔧 tab, and then choose [Enable] (p. 46).

2 Connect the camera to the TV.

- Follow steps 1 – 2 on p. 172 to connect the camera to the TV.

3 Display images.

- Turn on the TV. On the camera, press the ▶ button.
- ▷ Images from the camera are now displayed on the TV. (Nothing is displayed on the camera screen.)

4 Control the camera with the TV remote.

- Press the ◀▶ buttons on the remote to browse images.
- To display the camera control panel, press the OK/Select button. Select control panel items by pressing the ◀▶ buttons to choose an item, and then pressing the OK/Select button again.

Camera Control Panel Options Shown on the TV

↩	Return	Closes the menu.
▶	Play Movie	Starts movie playback. (Only displayed when a movie is selected.)
⧉	Slideshow	Starts slideshow playback. To switch images during playback, press the ◀▶ buttons on the remote control.
▦	Index Playback	Displays multiple images in an index.
DISP.	Change Display	Switches display modes (p. 44).

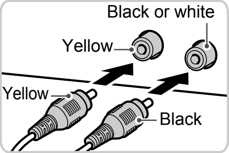
- Pressing any buttons on the camera will switch control to the camera itself, which will prevent remote control until you return to single-image display.
- The camera may not always respond correctly even if the remote is for an HDMI CEC-compatible TV.

Playback on a Standard-Definition TV

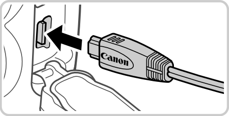
Connecting the camera to a TV with the AV Cable AVC-DC400 (sold separately) enables you to view your shots on the larger screen of the TV as you control the camera.

1 Make sure the camera and TV are off.

2 Connect the camera to the TV.



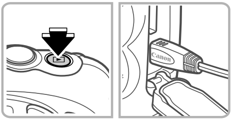
- On the TV, insert the cable plugs fully into the video inputs as shown.



- On the camera, open the terminal cover and insert the cable plug fully into the camera terminal.

3 Turn the TV on and switch to video input.

- Switch the TV input to the video input you connected the cable to in step 2.



4 Turn the camera on.

- Press the ▶ button to turn the camera on.
- ▶ Images from the camera are now displayed on the TV. (Nothing is displayed on the camera screen.)
- When finished, turn off the camera and TV before disconnecting the cable.

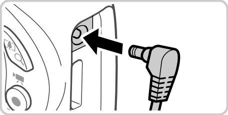
- Correct display is not possible unless the camera video output format (NTSC or PAL) matches the TV format. To change the video output format, press the MENU button and choose [Video System] on the 🔧 tab.

- When the camera and TV are connected, you can also shoot while previewing shots on the larger screen of the TV. To shoot, follow the same steps as when using the camera screen.

Powering the Camera with Household Power

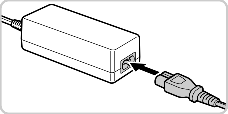
Powering the camera with AC Adapter Kit ACK-DC40 (sold separately) eliminates the need to monitor the remaining battery level.

1 Make sure the camera is off.



2 Connect the adapter to the camera.

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



3 Connect the power cord.

- Insert one end of the power cord into the compact power adapter, and then plug the other end into a power outlet.
- Turn the camera on and use it as desired.
- When finished, turn the camera off and unplug the power cord from the outlet.

- Do not disconnect the adapter or unplug the power cord while the camera is still on. This may erase your shots or damage the camera. Do not attach the adapter or adapter cord to other objects. Doing so could result in malfunction or damage to the product.

Using the Accessory Kit

Accessories Kit AKT-DC2 (sold separately) makes it more convenient to use the camera.

Using the Silicone Jacket

The jacket protects the camera from scratches. It is also submersible and can be used in seawater.

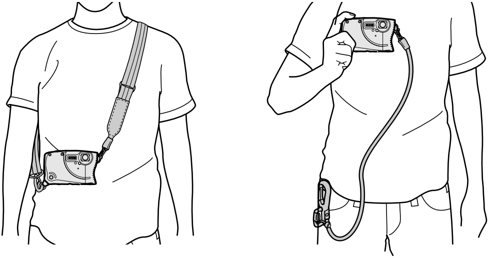
Insert the camera in the jacket.

- Insert the camera in the jacket in the direction of the arrow.
- To avoid scratching the camera, keep dust and sand out of the jacket.

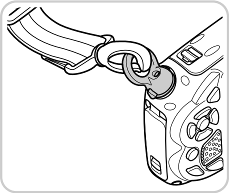
- Be careful when inserting and removing the camera from the jacket. Do not force it open, which may tear or damage it.
- To avoid scratching the camera, always remove any dust or sand that gets in the jacket.
- After using the jacket in salt water or in dusty or sandy environments, rinse it thoroughly under fresh water (such as tap water) no warmer than 30 °C (86 °F) and dry it with a soft cloth.

Changing Straps

You can switch to the shoulder strap or carabiner strap to suit the conditions of camera use.

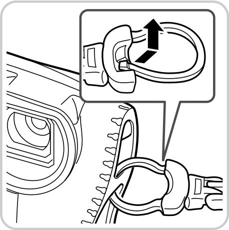


Switching to the Shoulder Strap



1 Attach the strap mount.

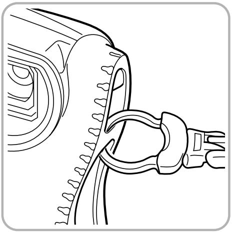
- Follow the steps on p. 15 to remove the strap mount included with the camera and attach the shoulder strap mount.



2 Attach the smaller fastener to the camera.

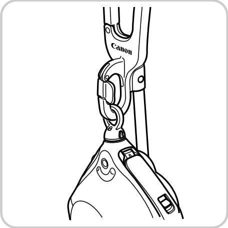
- Attach the smaller shoulder strap fastener to the camera as shown.

Switching to the Carabiner Strap



Attach the carabiner to the camera.

- Follow step 2 on p. 178 to attach the smaller carabiner strap fastener to the camera.

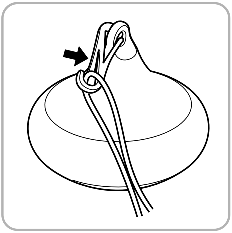


- By attaching only the shoulder strap mount to the camera, you can hang the camera up as shown when it is not in use.

- Do not use the shoulder strap or carabiner strap while under water (p. 11). Instead, attach the wrist strap (pp. 2, 15) to the camera for underwater use.

Using the Float

The float can be used to prevent the camera from sinking when submerged.



Attach the float to the wrist strap.

- Attach the float as shown to the end of the wrist strap included with the camera.

- Do not squeeze or scratch the float, which may reduce its buoyancy.

- After use, rinse the float thoroughly under fresh water (such as tap water) no warmer than 30 °C (86 °F) and dry it with a soft cloth.

Printing Images

Your shots can easily be printed by connecting the camera to a printer. On the camera, you can specify images to set up batch printing, prepare orders for photo development services, and prepare orders or print images for photobooks.

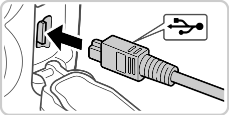
A Canon SELPHY CP series compact photo printer is used here for the sake of illustration. Screens displayed and available functions vary by printer. Also refer to the printer manual for additional information.

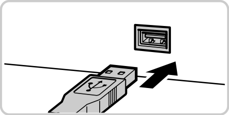
Still Images

Easy Print

Easily print your shots by connecting the camera to a PictBridge-compatible printer (sold separately) with the included interface cable (p. 2).

1 Make sure the camera and printer are off.

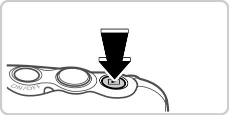




2 Connect the camera to the printer.

- Open the cover. Holding the smaller cable plug in the orientation shown, insert the plug fully into the camera terminal.
- Connect the larger cable plug to the printer. For other connection details, refer to the printer manual.

3 Turn the printer on.

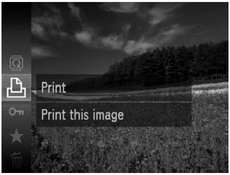


4 Turn the camera on.

- Press the ▶ button to turn the camera on.

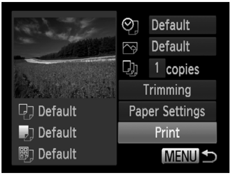
5 Choose an image.

- Press the ◀▶ buttons to choose an image.



6 Access the printing screen.

- Press the FUNC./SET button, choose ⎙, and press the FUNC./SET button again.



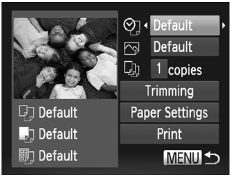
7 Print the image.

- Press the ▲▼ buttons to choose [Print], and then press the FUNC./SET button.
- ▶ Printing now begins.
- To print other images, repeat steps 5 – 6 after printing is finished.
- When you are finished printing, turn the camera and printer off and disconnect the interface cable.

- For Canon PictBridge-compatible printers (sold separately), see p. 171.

Still Images

Configuring Print Settings



◷ Default
🖼 Default
⧉ 1 copies
Trimming
Paper Settings
Print
MENU ↩
Default
Default
Default

1 Access the printing screen.

- Follow steps 1 – 6 on pp. 181 – 182 to access the screen at left.

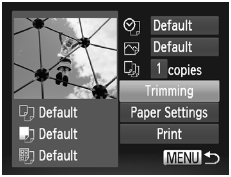
2 Configure the settings.

- Press the ▲▼ buttons to choose an item, and then press the ◀▶ buttons to choose an option.

◷	Default	Matches current printer settings.
	Date	Prints images with the date added.
	File No.	Prints images with the file number added.
	Both	Prints images with both the date and file number added.
	Off	–
🖼	Default	Matches current printer settings.
	Off	–
	On	Uses information from the time of shooting to print under optimal settings.
	Red-Eye 1	Corrects red-eye.
⧉	No. of Copies	Choose the number of copies to print.
Trimming	–	Specify a desired image area to print (p. 184).
Paper Settings	–	Specify the paper size, layout, and other details (p. 185).

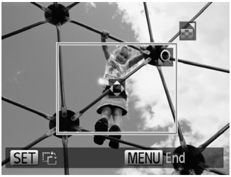
Cropping Images Before Printing (Trimming)

By cropping images before printing, you can print a desired image area instead of the entire image.



1 Choose [Trimming].

- After following step 1 on p. 183 to access the printing screen, choose [Trimming] and press the FUNC. SET button.
- ▶ A cropping frame is now displayed, indicating the image area to print.



2 Adjust the cropping frame as needed.

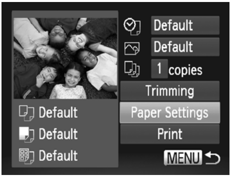
- To resize the frame, press the zoom buttons.
- To move the frame, press the ▲▼◀▶ buttons.
- To rotate the frame, press the FUNC. SET button.
- Press the MENU button, press the ▲▼ buttons to choose [OK], and then press the FUNC. SET button.

3 Print the image.

- Follow step 7 on p. 182 to print.

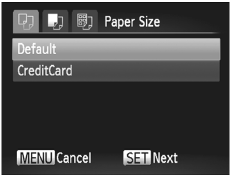
- Cropping may not be possible at small image sizes, or at some aspect ratios.
- Dates may not be printed correctly if you crop images shot with [Date Stamp] selected.

Choosing Paper Size and Layout Before Printing



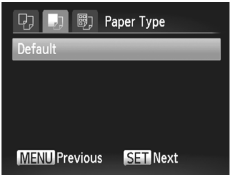
1 Choose [Paper Settings].

- After following step 1 on p. 183 to access the printing screen, choose [Paper Settings] and press the FUNC. SET button.



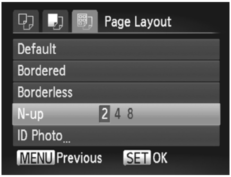
2 Choose a paper size.

- Press the ▲▼ buttons to choose an option, and then press the FUNC. SET button.



3 Choose a type of paper.

- Press the ▲▼ buttons to choose an option, and then press the FUNC. SET button.



4 Choose a layout.

- Press the ▲▼ buttons to choose an option.
- When choosing [N-up], press the ◀▶ buttons to specify the number of images per sheet.
- Press the FUNC. SET button.

5 Print the image.

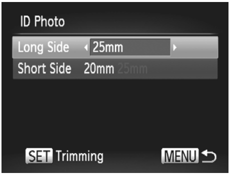
Available Layout Options

Default	Matches current printer settings.
Bordered	Prints with blank space around the image.
Borderless	Borderless, edge-to-edge printing.
N-up	Choose how many images to print per sheet.
ID Photo	Prints images for identification purposes. Only available for images with a resolution of L and an aspect ratio of 4:3.
Fixed Size	Choose the print size. Choose from 3.5 x 5 in., postcard, or wide-format prints.

Printing ID Photos

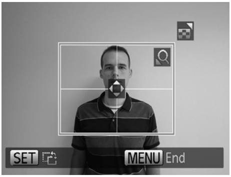
1 Choose [ID Photo].

- Following steps 1 – 4 on p. 185, choose [ID Photo] and press the FUNC. SET button.


ID Photo
Long Side ◀ 25mm ▶
Short Side 20mm 25mm

2 Choose the long and short side length.

- Press the ▲▼ buttons to choose an item. Choose the length by pressing the ◀▶ buttons, and then press the FUNC. SET button.



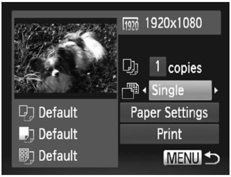
3 Choose the printing area.

- Follow step 2 on p. 184 to choose the printing area.

4 Print the image.

Movies

Printing Movie Scenes



1 Access the printing screen.

- Follow steps 1 – 6 on pp. 181 – 182 to choose a movie. The screen at left is displayed.

2 Choose a printing method.

- Press the ▲▼ buttons to choose ⎙, and then press the ◀▶ buttons to choose the printing method.

3 Print the image.

Movie Printing Options

Single	Prints the current scene as a still image.
Sequence	Prints a series of scenes, a certain interval apart, on a single sheet of paper. You can also print the folder number, file number, and elapsed time for the frame by setting [Caption] to [On].

- To cancel printing in progress, press the FUNC./SET button.
- [ID Photo] and [Sequence] cannot be chosen on Canon brand PictBridge compliant printers from CP720/CP730 and earlier models.

Still Images

Adding Images to the Print List (DPOF)

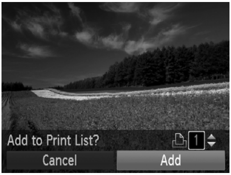
Batch printing (p. 191) and ordering prints from a photo development service can be set up on the camera. Choose up to 998 images on a memory card and configure relevant settings, such as the number of copies, as follows. The printing information you prepare this way will conform DPOF (Digital Print Order Format) standards.

Adding Images to the Print List via the FUNC. Menu

You can add images to the print list (DPOF) after your shot or later during playback via the FUNC. menu.

1 Choose an image.

- Press the ◀▶ buttons to choose an image.

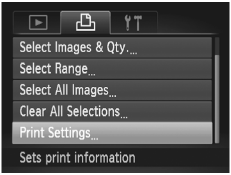


2 Add the image to the print list.

- Press the (FUNC./SET) button, choose ⎙ in the menu, and press the (FUNC./SET) button again.
- Press the ▲▼ buttons to specify the number of prints. Choose [Add] by pressing the ◀▶ buttons, and then press the (FUNC./SET) button.

Configuring Print Settings

Specify the printing format, whether to add the date or file number, and other settings as follows. These settings apply to all images in the print list.



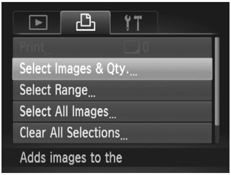
- Press the MENU button, and then choose [Print Settings] on the ⎙ tab. Choose and configure settings as desired (p. 46).

Print Type	Standard	One image is printed per sheet.
	Index	Smaller versions of multiple images are printed per sheet.
	Both	Both standard and index formats are printed.
Date	On	Images are printed with the shooting date.
	Off	–
File No.	On	Images are printed with the file number.
	Off	–
Clear DPOF data	On	All image print list settings are cleared after printing.
	Off	–

- Not all of your DPOF settings may be applied in printing by the printer or photo development service, in some cases.
- ❗ may be displayed on the camera to warn you that the memory card has print settings that were configured on another camera. Changing the print settings using this camera may overwrite all previous settings.
- Setting [Date] to [On] may cause some printers to print the date twice.

- Specifying [Index] will prevent you from choosing [On] for both [Date] and [File No.] at the same time.
- The date is printed in a format matching setting details in [Date/Time] on the 🔧 tab, accessible by pressing the MENU button (p. 19).
- Index printing is not available on some Canon PictBridge-compatible printers (sold separately).

Setting Up Printing for Individual Images

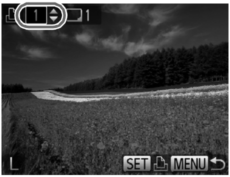


1 Choose [Select Images & Qty.].

- Press the MENU button, choose [Select Images & Qty.] on the ⎙ tab, and then press the (FUNC/SET) button.

2 Choose an image.

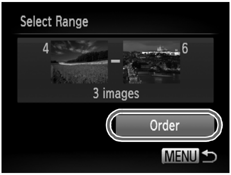
- Press the ◀▶ buttons to choose an image, and then press the (FUNC/SET) button.
- ▶ You can now specify the number of copies.
- If you specify index printing for the image, it is labeled with a ✓ icon. To cancel index printing for the image, press the (FUNC/SET) button again. ✓ is no longer displayed.



3 Specify the number of prints.

- Press the ▲▼ buttons to specify the number of prints (up to 99).
- To set up printing for other images and specify the number of prints, repeat steps 2 – 3.
- Printing quantity cannot be specified for index prints. You can only choose which images to print, by following step 2.
- When finished, press the MENU button to return to the menu screen.

Setting Up Printing for a Range of Images



1 Choose [Select Range].

- Following step 1 on p. 189, choose [Select Range] and press the FUNC./SET button.

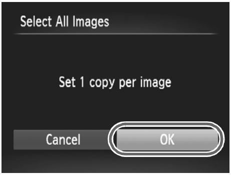
2 Choose images.

- Follow steps 2 – 3 on p. 140 to specify images.

3 Configure the print settings.

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

Setting Up Printing for All Images



Set 1 copy per image

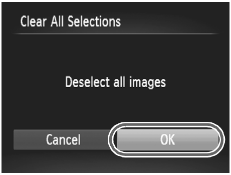
1 Choose [Select All Images].

- Following step 1 on p. 189, choose [Select All Images] and press the FUNC./SET button.

2 Configure the print settings.

- Press the ◀▶ buttons to choose [OK], and then press the FUNC./SET button.

Clearing All Images from the Print List


Clear All Selections

Deselect all images

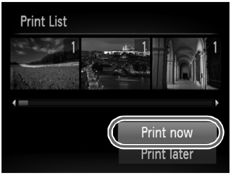
1 Choose [Clear All Selections].

- Following step 1 on p. 189, choose [Clear All Selections] and press the FUNC. SET button.

2 Confirm clearing the print list.

- Press the ◀▶ buttons to choose [OK], and then press the FUNC. SET button.

Printing Images Added to the Print List (DPOF)



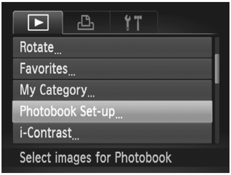
- When images have been added to the print list (pp. 188 – 190), the screen at left is displayed after you connect the camera to a PictBridge-compatible printer. Press the ▲▼ buttons to choose [Print now], and then simply press the FUNC. SET button to print the images in the print list.
- Any DPOF print job that you temporarily stop will be resumed from the next image.

Still Images

Adding Images to a Photobook

Photobooks can be set up on the camera by choosing up to 998 images on a memory card and importing them into the included software on your computer, where they are stored in their own folder. This is convenient when ordering printed photobooks online or printing photobooks with your own printer.

Choosing a Selection Method

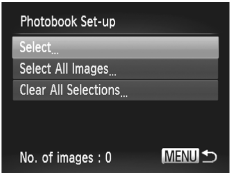


- Press the MENU button, choose [Photobook Set-up] on the ▶ tab, and then choose how you will select images.

- ! may be displayed on the camera to warn you that the memory card has print settings that were configured on another camera. Changing the print settings using this camera may overwrite all previous settings.

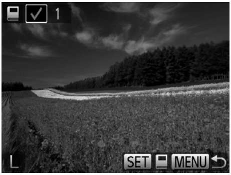
- After importing images to your computer, also refer to the *ImageBrowser EX User Guide* (p. 28) and the printer manual for further information.

Adding Images Individually



1 Choose [Select].

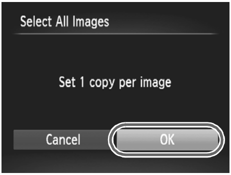
- Following the previous procedure, choose [Select] and press the FUNC/SET button.



2 Choose an image.

- Press the ◀▶ buttons to choose an image, and then press the FUNC./SET button.
- ▶ ✓ is displayed.
- To remove the image from the photobook, press the FUNC./SET button again. ✓ is no longer displayed.
- Repeat this process to specify other images.
- When finished, press the MENU button to return to the menu screen.

Adding All Images to a Photobook


Select All Images

Set 1 copy per image

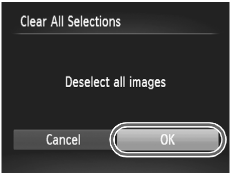
1 Choose [Select All Images].

- Following the procedure on p. 192, choose [Select All Images] and press the FUNC./SET button.

2 Configure the print settings.

- Press the ◀▶ buttons to choose [OK], and then press the FUNC./SET button.

Removing All Images from a Photobook


Clear All Selections

Deselect all images

1 Choose [Clear All Selections].

- Following the procedure on p. 192, choose [Clear All Selections] and press the FUNC./SET button.

2 Confirm clearing the photobook.

- Press the ◀▶ buttons to choose [OK], and then press the FUNC./SET button.

Using an Eye-Fi Card

Before using an Eye-Fi card, always confirm that local use is permitted (p. 3).

Inserting a prepared Eye-Fi card enables automatic wireless transfer of images to a computer or uploading to a photo-sharing website.
Images are transferred by the Eye-Fi card. Refer to the card's user manual or contact the manufacturer for instructions on preparing and using cards or resolving transfer problems.

- When using an Eye-Fi card, keep the following points in mind.
  - Cards may continue to transmit radio waves even when [Eye-Fi trans.] is set to [Disable] (p. 195). Remove the Eye-Fi card before entering hospitals, aircraft, or other areas where transmission is prohibited.
  - When troubleshooting image transfer issues, check the card and computer settings. For details, refer to the card's user manual.
  - Poor wireless connections may cause image transfer to take a long time, and transfer may be interrupted in some cases.
  - Eye-Fi cards may become hot, due to their transfer functions.
  - Battery power will be consumed faster than in normal use.
  - Camera operation may become sluggish. To resolve this, try setting [Eye-Fi trans.] to [Disable].

Connection status of Eye-Fi cards in the camera can be checked on the shooting screen (in regular information display mode) or playback screen (in simple information display mode).

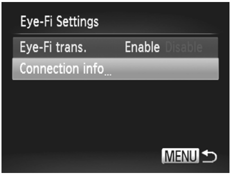
📶 (Gray)	Not connected
📶 (Blinking white)	Connecting
📶 (White)	Connected
📶 (Animated)	Transfer in progress
📶⊘	Interrupted
📶OFF	Not communicating
📶!	Error acquiring Eye-Fi card information (Restart the camera. Repeated display of this icon may indicate a problem with the card.)

Images labeled with a 📶 icon have been transferred.

- Power saving (p. 42) on the camera is temporarily disabled during image transfer.
- Choosing 🎥 mode will interrupt the Eye-Fi connection. Although the Eye-Fi connection will be restored after you choose another shooting mode or enter Playback mode, the camera may transfer any movies made in 🎥 mode again.

Checking Connection Information

Check the access point SSID used by the Eye-Fi card or the connection status, as needed.



Eye-Fi Settings

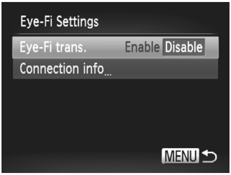
Eye-Fi trans. Enable Disable

Connection info...

- Press the MENU button, choose [Eye-Fi Settings] on the 🔧 tab, and then press the FUNC. SET button.
- Choose [Connection info], and then press the FUNC. SET button.
- ▶ The connection information screen is displayed.

Disabling Eye-Fi Transfer

Configure the setting as follows to disable Eye-Fi transfer by the card, if necessary.



Eye-Fi Settings

Eye-Fi trans. Enable Disable

Connection info...

Choose [Disable] in [Eye-Fi trans.].

- Press the MENU button, choose [Eye-Fi Settings] on the 🔧 tab, and then press the FUNC. SET button.
- Choose [Eye-Fi trans.], and then choose [Disable].

- [Eye-Fi Settings] is not shown unless an Eye-Fi card is in the camera with its write-protect tab in the unlocked position. For this reason, you cannot change settings for an inserted Eye-Fi card if the write-protect tab is in the locked position.

9

Appendix

Helpful information when using the camera

Troubleshooting

If you think there is a problem with the camera, first check the following. If the items below do not solve your problem, contact a Canon Customer Support Help Desk.

Power

Nothing happens when the ON/OFF button is pressed.

- Confirm that you are using the correct type of battery, and that there is sufficient charge (p. 205).
- Confirm that the battery is inserted facing the correct way (p. 17).
- Confirm that the memory card/battery cover is fully closed (p. 18).
- Dirty battery terminals reduce battery performance. Try cleaning the terminals with a cotton swab and reinserting the battery a few times.

The battery is depleted quickly.

- Battery performance decreases at low temperatures. Try warming the battery a little by putting it in your pocket, for example, with the terminal cover on.
- If these measures do not help and the battery is still depleted soon after charging, it has reached the end of its life. Purchase a new battery.

The battery is swollen.

- Battery swelling is normal and does not pose any safety concerns. However, if battery swelling prevents the battery from fitting in the camera, contact a Canon Customer Support Help Desk.

Display on a TV

Camera images look distorted or not displayed on a TV (p. 175).

Shooting

Cannot shoot.

- In Playback mode (p. 22), press the shutter button halfway (p. 43).

Strange display on the screen under low light (p. 44).

Strange display on the screen when shooting.

Note that the following display problems are not recorded in still images but are recorded in movies.

- The screen may flicker and horizontal banding may appear under fluorescent or LED lighting.

⚡ flashes on the screen when the shutter button is pressed, and shooting is not possible (p. 61).

📷 is displayed when the shutter button is pressed halfway (p. 69).

- Set [IS mode] to [Continuous] (p. 123).
- Set the flash mode to ⚡ (p. 121).
- Increase the ISO speed (p. 106).
- Mount the camera on a tripod or take other measures to keep it still. In this case, set [IS Mode] to [Off] (p. 123).

Shots are out of focus.

- Press the shutter button halfway to focus on subjects before pressing it all the way down to shoot (p. 43).
- Make sure subjects are within focusing range (see “Specifications” (p. 36)).
- Set [AF-assist Beam] to [On] (p. 79).
- Confirm that unneeded functions such as macro are deactivated.
- Try shooting with focus lock or AF lock (pp. 117, 120).

No AF frames are displayed and the camera does not focus when the shutter button is pressed halfway.

- To have AF frames displayed and the camera focus correctly, try composing the shot with higher-contrast subject areas centered before you press the shutter button halfway. Otherwise, try pressing the shutter button halfway repeatedly.

Subjects in shots look too dark.

- Set the flash mode to ⚡ (p. 121).
- Adjust brightness by using exposure compensation (p. 105).
- Adjust contrast by using i-Contrast (pp. 107, 153).
- Use spot metering or AE lock (pp. 105, 106).

Subjects look too bright, highlights are washed-out.

- Set the flash mode to ⊘ (p. 69).
- Adjust brightness by using exposure compensation (p. 105).
- Use spot metering or AE lock (pp. 105, 106).
- Reduce the lighting on subjects.

Shots look too dark despite the flash firing (p. 61).

- Shoot within flash range (p. 121).
- Increase the ISO speed (p. 106).

Subjects in flash shots look too bright, highlights are washed-out.

- Shoot within flash range (p. 121).
- Set the flash mode to ⊘ (p. 69).

White dots or similar image artifacts appear in flash shots.

- This is caused by light from the flash reflecting off dust or airborne particles.

Shots look grainy.

- Lower the ISO speed (p. 106).

Subjects are affected by red-eye (p. 73).

- Set [Red-Eye Lamp] to [On] (p. 79) to activate the red-eye reduction lamp (p. 4) in flash shots. Note that while the red-eye reduction lamp is on (for about one second), it is not possible to shoot, because the lamp is counteracting red-eye. For best results, have subjects look at the red-eye reduction lamp. Also try increasing the lighting in indoor scenes and shooting at closer range.
- Edit images using red-eye correction (p. 154).

Recording to the memory card takes too long, or continuous shooting is slower.

- Use the camera to perform low-level formatting of the memory card (p. 162).

Shooting settings or FUNC. menu settings are not available.

- Available setting items vary by shooting mode. Refer to “Functions Available in Each Shooting Mode”, “FUNC. Menu”, and “Shooting Menu” (pp. 208 – 213).

Shooting Movies

The elapsed time shown is incorrect, or recording is interrupted.

- Use the camera to format the memory card, or switch to a card that supports high-speed recording. Note that even if the elapsed time display is incorrect, the length of movies on the memory card corresponds to the actual recording time (p. 161).

❗ is displayed and shooting stops automatically.

The camera’s internal memory buffer filled up as the camera could not record to the memory card quickly enough. Try one of the following measures.

- Use the camera to perform low-level formatting of the memory card (p. 162).
- Lower the image quality (p. 74).
- Switch to a memory card that supports high-speed recording (see “Specifications” (p. 36)).

Subjects look distorted.

- Subjects that pass in front of the camera quickly may look distorted. This is not a malfunction.

Playback

Playback is not possible.

- Image or movie playback may not be possible if a computer is used to rename files or alter the folder structure. Refer to the *ImageBrowser EX User Guide* (p. 28) for details on folder structure and file names.

Playback stops, or audio skips.

- Switch to a memory card that you have performed low-level formatting on with the camera (p. 162).
- There may be brief interruptions when playing movies copied to memory cards that have slow read speeds.
- When movies are played on a computer, frames may be dropped and audio may skip if computer performance is inadequate.

Computer

Cannot transfer images to a computer.

When attempting to transfer images to the computer via a cable, try reducing the transfer speed as follows.

- Press the ▶ button to enter Playback mode. Hold the MENU button down as you press the ▲ and FUNC./SET buttons at the same time. On the next screen, press the ◀▶ buttons to choose [B], and then press the FUNC./SET button.

Eye-Fi Cards

Cannot transfer images (p. 194).

On-Screen Messages

If an error message is displayed, respond as follows.

No memory card

- The memory card may be inserted facing the wrong way. Reinsert the memory card facing the correct way (p. 18).

Memory card locked

- The write-protect tab of the SD/SDHC/SDXC memory card or Eye-Fi card is set to the locked position. Switch the write-protect tab to the unlocked position (pp. 17, 18).

Cannot record!

- Shooting was attempted without a memory card in the camera. To shoot, insert a memory card facing the correct way (p. 18).

Memory card error (p. 162)

- If the same error message is displayed even when you have inserted a formatted memory card facing the correct way, contact a Canon Customer Support Help Desk (p. 18).

Insufficient space on card

- There is not enough free space on the memory card to shoot (pp. 57, 81, 103) or edit images (pp. 150 – 154). Either erase unneeded images (p. 142) or insert a memory card with enough free space (p. 17).

Change the battery pack. (p. 17)

No Image.

- The memory card does not contain any images that can be displayed.

Protected! (p. 138)

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

- Unsupported or corrupt images cannot be displayed.
- It may not be possible to display images that were edited or renamed on a computer, or images shot with another camera.

Cannot magnify!/Cannot play back this content in Smart Shuffle/Cannot rotate/Cannot modify image/Cannot register this image!/Cannot modify/Cannot assign to category/Unselectable image.

- The following functions may be unavailable for images that were renamed or already edited on a computer, or images shot with another camera. Note that starred (*) functions are not available for movies.
  Magnify* (p. 135), Smart Shuffle* (p. 137), Categorize (p. 146), Rotate (p. 144), Edit* (pp. 150 – 154), Assign as Start-up Image* (p. 161), Print List* (p. 188), and Photobook Set-up* (p. 192).

Invalid selection range

- When specifying a range for image selection (pp. 140, 143, 149, 190), you attempted to choose an initial image that was after the final image, or vice-versa.

Exceeded selection limit

- More than 998 images were selected for Print List (p. 188) or Photobook Set-up (p. 192). Choose 998 images or less.
- Print List (p. 188) or Photobook Set-up (p. 192) settings could not be saved correctly. Reduce the number of selected images and try again.
- You attempted to choose more than 500 images in Protect (p. 138), Erase (p. 142), My Category (p. 147), Print List (p. 188), or Photobook Set-up (p. 192).

Communication error

- An excessive amount of images (approx. 1,000) on the memory card prevented printing or image transfer to a computer. To transfer the images, use a commercially available USB card reader. To print, insert the memory card directly into the printer card slot.

Naming error!

- When the highest folder number (999), and the highest image number (9999) has been reached, new folders cannot be created, and images cannot be recorded. In the 🛠 menu, change [File Numbering] to [Auto Reset] (p. 163), or format the memory card (p. 161).

Lens Error

- A lens error was detected. Press the ON/OFF button to turn the camera off and on again (p. 42).
- Frequent display of this error message may indicate camera damage. In this case, contact a Canon Customer Support Help Desk.

A camera error was detected (*error number*)

- If this error message is displayed immediately after a shot, the image may not have been saved. Switch to Playback mode to check for the image.
- Frequent display of this error message may indicate camera damage. In this case, write down the error number (*Exx*) and contact a Canon Customer Support Help Desk.

File Error

- It may not be possible to print computer-edited images or images shot with another camera.

Print error

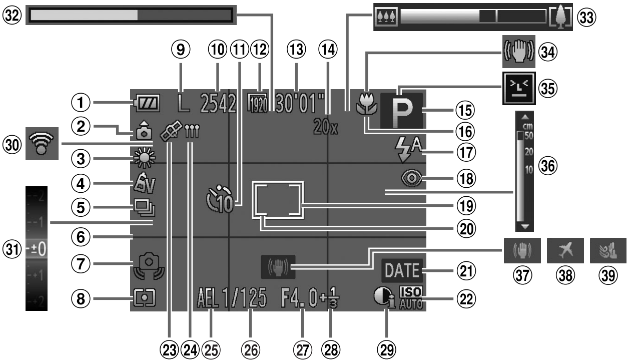
- Check the paper size setting. If this error message is displayed when the setting is correct, restart the printer and complete the setting on the camera again.

Ink absorber full

- Contact a Canon Customer Support Help Desk to request assistance with ink absorber replacement.

On-Screen Information

Shooting (Information Display)



① Battery level (p. 205)
② Camera orientation*
③ White balance (p. 108)
④ My Colors (p. 110)
⑤ Drive mode (p. 112)
⑥ Grid lines (p. 76)
⑦ Camera shake warning (p. 61)
⑧ Metering method (p. 106)
⑨ Resolution (p. 72)
⑩ Recordable shots
⑪ Self-timer (p. 67)
⑫ Movie quality (p. 74)
⑬ Remaining time
⑭ Digital zoom magnification (p. 66), Digital tele-converter (p. 115)
⑮ Shooting mode (p. 208), Scene icon (p. 63)
⑯ Focusing range (p. 113), AF lock (p. 120)
⑰ Flash mode (pp. 69, 121)
⑱ Red-eye correction (p. 73)
⑲ AF frame (p. 116)
⑳ Spot AE point frame (p. 106)
㉑ Date stamp (p. 70)
㉒ ISO speed (p. 106)
㉓ GPS reception status (p. 51)
㉔ GPS logging indicator (p. 53)
㉕ AE lock (p. 105), FE lock (p. 122)
㉖ Shutter speed
㉗ Aperture value
㉘ Exposure compensation level (p. 105)
㉙ i-Contrast (p. 107)
㉚ Eye-Fi connection status (p. 194)
㉛ Exposure compensation bar (p. 105)
㉜ Super slow motion movie (shooting time) (p. 100)
㉝ Zoom bar (p. 59)
㉞ Image stabilization icon (p. 64)
㉟ Blink detection (p. 78)
㊱ MF indicator (p. 113)
㊲ Image stabilization (p. 123)
㊳ Time zone (p. 164)
㊴ Wind filter (p. 75)

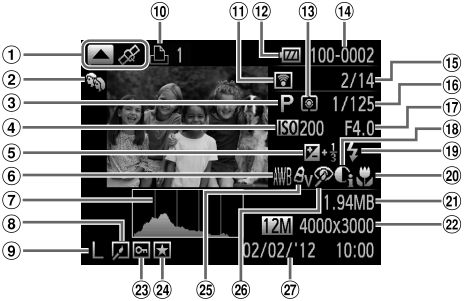
* 📷 : Regular orientation, 📷 📷 : Held vertically
The camera detects the shooting orientation and adjusts settings for optimal shots. Orientation is also detected during playback, and in either orientation, the camera automatically rotates images as needed.
However, the orientation may not be detected correctly when the camera is pointed straight up or down.

Battery Level

An on-screen icon or message indicates the battery charge level.

Display	Details
🔋	Sufficient charge
🔋	Slightly depleted, but sufficient
🔋 (Blinking red)	Nearly depleted – charge the battery soon
[Change the battery pack.]	Depleted – charge the battery immediately

Playback (Detailed Information Display)



① Movies (pp. 58, 126), Switch display (GPS information) (p. 130)
② My Category (p. 147)
③ Shooting mode (p. 208)
④ ISO speed (p. 106), Playback speed (p. 88)
⑤ Exposure compensation level (p. 105)
⑥ White balance (p. 108)
⑦ Histogram (p. 130)
⑧ Image editing (pp. 150 – 154)
⑨ Resolution (pp. 72, 74), MOV (movies)
⑩ Print list (p. 188)
⑪ Transferred via Eye-Fi (p. 194)
⑫ Battery level (p. 205)
⑬ Metering method (p. 106)
⑭ Folder number - File number (p. 163)
⑮ Current image no. / Total no. of images
⑯ Shutter speed (still images), Image quality / Frame rate (movies) (p. 74)
⑰ Aperture value
⑱ i-Contrast (pp. 107, 153)
⑲ Flash (p. 121)
⑳ Focusing range (p. 113)
㉑ File size
㉒ Still images: Resolution Movies: Movie length
㉓ Protection (p. 138)
㉔ Favorite (p. 146)
㉕ My Colors (pp. 110, 152), White balance correction (p. 85)
㉖ Red-eye correction (pp. 73, 154)
㉗ Shooting date/time (p. 19)

- Some information may not be displayed when viewing images on a TV (p. 172).

Summary of Movie Control Panel in “Viewing” (p. 126)

↩	Exit
▶	Play
❙▶	Slow Motion (Press the ◀▶ buttons to adjust the playback speed. No sound is played.)
⏮	Skip Backward* (To continue skipping backward, keep holding down the FUNC./SET button.)
◀‖	Previous Frame (For fast-rewind, keep holding down the FUNC./SET button.)
‖▶	Next Frame (For fast-forward, keep holding down the FUNC./SET button.)
⏭	Skip Forward* (To continue skipping forward, keep holding down the FUNC./SET button.)
✂	Edit (p. 155)
⎙	Shown when the camera is connected to a PictBridge-compatible printer (p. 181).

* Displays the frame approx. 4 sec. before or after the current frame.

- You can skip forward or back during movie playback by pressing ◀▶ buttons, or by tapping the side of the camera gently (p. 128).

Functions and Menu Tables

Functions Available in Each Shooting Mode

Function	Shooting Mode	AUTO	📷					
			P	🎞	✋	📷☺		
						☺	😉	☺
Flash (pp. 69, 121)	⚡A	○	○	○	○	○	○	○
	⚡	–	○	○	○	○	○	○
	⚡★	*1	○	○	–	–	–	–
	⊘	○	○	○	○	○	○	○
AE Lock/FE Lock*3 (pp. 105, 122)		–	○	○	–	–	–	–
AF Lock (p. 120)		–	○	○	–	–	–	–
Focusing Range (p. 113)	▲A	○	○	○	○	○	○	○
	🌷	–	○	○	○	–	–	–
	≡📷	–	–	–	–	–	–	–
	MF	–	○	○	○	–	–	–
Tracking AF (p. 118)		–	○	–	○	–	–	–
Screen Display (p. 44)	No Information Display	○	○	○	○	–	–	–
	Information Display	○	○	○	○	○	○	○

*1 Not available, but switches to ⚡★ in some cases.
*2 Not available, but switches to ⚡★ when the flash fires.
*3 FE lock not available in ⊘ flash mode.

📷																
🌃	🕯	◠	🏙	📷	◪	🦜	▙	A S	🐠	🐚	☃	❋	☾	🖳 🖳	🎥	🎥
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○ Available or set automatically. – Not available.

FUNC. Menu

Function	Shooting Mode	AUTO	📷					
			P	▣	◐	📷		
						☺	☺	☺
GPS Settings (p. 51)	Off/On	○	○	○	○	○	○	○
Metering Method (p. 106)	⦿	○	○	○	○	○	○	○
	[ ] [•]	–	○	○	–	–	–	–
My Colors (p. 110)	OFF	○	○	○	○	○	○	○
	V N Se *1 BW *1 P L D B G R C *2	–	○	○	–	○	○	○
White Balance (p. 108)	AWB	○	○	○	○	○	○	○
	☀ ☁ ✱ ⚌ ⚌H ≋	–	○	○	–	○	○	○
	⏏ *3	–	○	○	–	○	○	○
Underwater White Balance Compensation (p. 85)		–	–	–	–	–	–	–
ISO Speed (p. 106)	ISO AUTO	○	○	○	○	○	○	○
	ISO 100 ISO 200 ISO 400 ISO 800 ISO 1600 ISO 3200	–	○	○	–	–	–	–
Exposure Compensation (p. 105)		–	○	○	○	○	○	○
Self-Timer (p. 67)	OFF	○	○	○	○	○	○	○
	10 2 C	○	○	○	○	–	–	–
Self-Timer Settings (p. 68)	Delay*4	○	○	○	○	–	–	–
	Shots*5	○	○	–	○	–	–	–
Drive Mode (p. 112)	□	○	○	○	○	○	○	○
	⧉	–	○	–	○	–	–	–
Still Image Aspect Ratio (p. 71)	16:9 3:2 4:3 1:1	○	○	–	○	○	○	○
Resolution (p. 72)	L	○	○	○	○	○	○	○
	M1 M2	○	○	○	○	○	○	○
	M	–	–	–	–	–	–	–
	S	○	○	○	○	○	○	○
Movie Quality (p. 74)	1920	○	○	○	○	○	○	○
	1280	○	○	○	○	○	○	○
	640	○	○	○	○	○	○	○
	240 120	–	–	–	–	–	–	–

*1 White balance is not available.

*2 Set in a range of 1 – 5: contrast, sharpness, color saturation, red, green, blue, and skin tone.

*3 Not available in ⧉ or ⧈.

*4 Cannot be set to 0 seconds in modes without selection of the number of shots.

*5 One shot (cannot be modified) in modes without selection of the number of shots.

📷																
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*6 Only 4:3 and 16:9 are available.

○ Available or set automatically. – Not available.

*7 Synchronizes with the aspect ratio setting and is automatically set (p. 88).

Shooting Menu

Function		Shooting Mode	AUTO	P					
AF Frame (p. 116)	Face AiAF*1		○	○	○	○	○	○	○
	Tracking AF		–	○	–	○	–	–	–
	Center		–	○	○	○	–	–	–
AF Frame Size*2 (p. 117)	Normal		–	○	○	○	–	–	–
	Small		–	○	○	○	–	–	–
Digital Zoom (p. 66)	Standard		○	○	○	○	○	○	○
	Off		○	○	○	○	○	○	○
	Digital Tele-converter (1.5x/2.0x)		–	○	–	–	–	–	–
AF-Point Zoom (p. 77)	On		○	○	–	○	○	○	○
	Off		○	○	○	○	○	○	○
Servo AF (p. 119)	On		–	○	–	○	–	–	–
	Off*3		○	○	○	○	○	○	○
AF-assist Beam (p. 79)	On		○	○	○	○	○	○	○
	Off		○	○	○	○	–	○	○
MF-Point Zoom (p. 113)	On		–	○	–	○	–	–	–
	Off		○	○	○	○	○	○	○
Safety MF (p. 114)	On		–	○	○	○	–	–	–
	Off		○	○	○	○	○	○	○
Flash Settings (pp. 73, 79)	Red-Eye Corr.	On	○	○	○	○	○	○	○
		Off	○	○	○	○	○	○	○
	Red-Eye Lamp	On	○	○	○	○	○	○	○
		Off	○	○	○	○	○	○	○
i-Contrast (p. 107)	Auto		○	○	○	–	–	–	–
	Off		–	○	○	○	○	○	○
Wind Filter (p. 75)	On/Off		○	○	○	○	○	○	○
Review (p. 80)	Off/2 – 10 sec./Hold		○	○	○	○	○	○	○
Review Info (p. 80)	Off		○	○	○	○	○	○	○
	Detailed/Focus Check		○	○	○	○	○	○	○
Blink Detection (p. 78)	On		○	○	○	○	○	○	○
	Off		○	○	○	○	○	○	○
Grid Lines (p. 76)	On		○	○	○	○	○	○	○
	Off		○	○	○	○	○	○	○
IS Settings (p. 123)	IS Mode	Off	○	○	○	○	○	○	○
		Continuous	○	○	○	○	○	○	○
		Shoot Only	–	○	–	○	○	○	○
	Powered IS	On	○	○	○	○	○	○	○
		Off	○	○	○	○	○	○	○
Date Stamp (p. 70)	Off		○	○	○	○	○	○	○
	Date / Date & Time		○	○	○	○	○	○	○

*1 Operation when no faces are detected varies by shooting mode.

*2 Available when the AF frame is set to [Center].

*3 [On] when subject movement is detected in AUTO mode.

📷																
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○ Available or set automatically. – Not available.

Set up Menu

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Handling Precautions

- The camera is a high-precision electronic device. Avoid dropping it or subjecting it to strong impact.
- Never bring the camera near magnets, motors, or other devices that generate strong electromagnetic fields, which may cause malfunction or erase image data.
- If water droplets or dirt adheres to the camera or screen, wipe with a dry soft cloth, such as an eyeglass cloth. Do not rub hard or apply force.
- Never use cleaners containing organic solvents to clean the camera or screen.
- Use a blower brush to remove dust from the lens. If cleaning is difficult, contact a Canon Customer Support Help Desk.
- To prevent condensation from forming on the camera after sudden temperature changes (when the camera is transferred from cold to warm environments), put the camera in an airtight, resealable plastic bag and let it gradually adjust to the temperature before removing it from the bag.
- If condensation does form on the camera, stop using it immediately. Continuing to use the camera in this state may damage it. Remove the battery and memory card, and wait until the moisture has evaporated before resuming use.

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CAUTION

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

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