Canon

PowerShot SX430 IS

Camera User Guide

ENGLISH

- Make sure you read this guide, including the “Safety Instructions” (📖12) section, before using the camera.
- Reading this guide will help you learn to use the camera properly.
- Store this guide safely so that you can use it in the future.

- Click the buttons in the lower right to access other pages.
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CT0-D138-A

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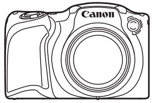
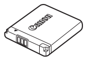
Before Use

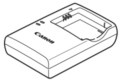
Initial Information

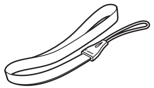
Package Contents

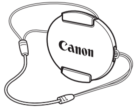
Before use, make sure the following items are included in the package.
If anything is missing, contact your camera retailer.


Camera


Battery Pack
NB-11LH*


Battery Charger
CB-2LF/CB-2LFE


Wrist Strap


Lens Cap
(with cord)

* Do not peel off the adhesive covering from a battery pack.

- Printed matter is also included.
- A memory card is not included (📖2).

Compatible Memory Cards

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

- SD memory cards*
- SDHC memory cards*
- SDXC memory cards*

* Cards conforming to SD standards. However, not all memory cards have been verified to work with the camera.

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 result in the failure of an image to be recorded or to be recorded in a way that is machine readable.
- The user's unauthorized photographing or recording (video and/or sound) of people or copyrighted materials may invade the privacy of such people and/or may violate others' legal rights, including copyright and other intellectual property rights, even when such photographing or recording is intended solely for personal use.
- The camera warranty is valid only in the area of purchase. In case of camera problems while abroad, return to the area of purchase before contacting a Canon Customer Support Help Desk.
- Although the screen (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.
- When the camera is used over an extended period, it may become warm. This does not indicate damage.

Conventions in This Guide

- In this guide, icons are used to represent the corresponding camera buttons on which they appear, or which they resemble.
- The following camera buttons and controls are represented by icons. Numbers in parentheses indicate the numbers of corresponding controls in "Part Names" (📖4).
  [▲] Up button (9) on back
  [◀] Left button (13) on back
  [▶] Right button (11) on back
  [▼] Down button (12) on back
- Shooting modes and on-screen icons and text are indicated in brackets.
- ❗: Important information you should know
- ✎: Notes and tips for expert camera use
- 📖xx: Pages with related information (in this example, "xx" represents a page number)
- The symbols "▶ Still Images" and "▶ Movies" below titles indicate how the function is used—whether for still images or movies.
- 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".

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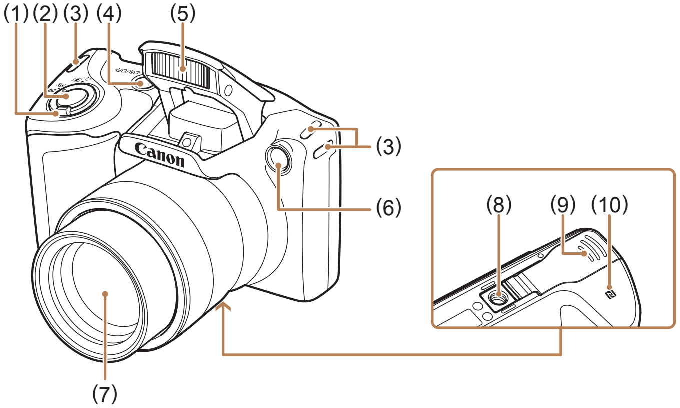
Part Names



(1) Zoom lever
Shooting: [🌲 (telephoto)] /
[🌲🌲🌲 (wide angle)]
Playback: [🔍 (magnify)] /
[▦ (index)]

(2) Shutter button

(3) Strap mount

(4) Power button

(5) Flash

(6) Lamp

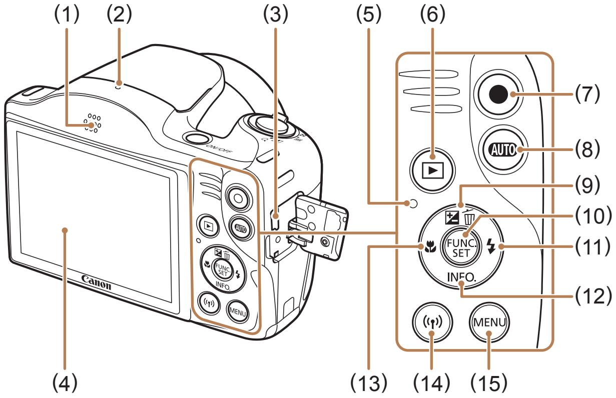
(7) Lens

(8) Tripod socket

(9) Memory card/battery cover

(10) [N (N-Mark)]*

* Used with NFC features (📖77).



(1) Speaker

(2) Microphone

(3) AV OUT (Audio/video output) / DIGITAL terminal

(4) Screen (monitor)

(5) Indicator

(6) [▶ (Playback)] button

(7) Movie button

(8) [AUTO (Auto)] button

(9) [± (Exposure compensation)] / [🗑 (Single-image erase)] / Up button

(10) FUNC. (Function) / SET button

(11) [ϟ (Flash)] / Right button

(12) [INFO. (Information)] / Down button

(13) [🌷 (Macro)] / Left button

(14) [((ᵢ)) (Wi-Fi)] button

(15) [MENU] button

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Safety Instructions

- Be sure to read these instructions in order to operate the product safely.
- Follow these instructions to prevent injury or harm to the operator of the product or others.

⚠ WARNING	Denotes the risk of serious injury or death.

- Keep the product out of the reach of young children.

A strap wrapped around a person’s neck may result in strangulation.
The accessory shoe cover is dangerous if swallowed. If swallowed, seek immediate medical assistance.

- Use only power sources specified in this instruction manual for use with the product.
- Do not disassemble or modify the product.
- Do not expose the product to strong shocks or vibration.
- Do not touch any exposed internal parts.
- Stop using the product in any case of unusual circumstances such as the presence of smoke or a strange smell.
- Do not use organic solvents such as alcohol, benzine or paint thinner to clean the product.
- Do not get the product wet. Do not insert foreign objects or liquids into the product.
- Do not insert foreign objects or liquids into the product.
- Do not use the product where flammable gases may be present.

This may cause electric shock, explosion or fire.

- For products featuring a viewfinder, do not look through the viewfinder at strong light sources such as the sun on a bright day or lasers and other strong artificial light sources.

This may harm your vision.

- Observe the following instructions when using commercially available batteries or provided battery packs.
  - Use batteries/battery packs only with their specified product.
  - Do not heat batteries/battery packs or expose them to fire.
  - Do not charge batteries/battery packs using non-authorized battery chargers.
  - Do not expose the terminals to dirt or let them come into contact with metallic pins or other metal objects.
  - Do not use leaking batteries/battery packs.
  - When disposing of batteries/battery packs, insulate the terminals with tape or other means.

This may cause electric shock, explosion or fire.
If a battery/battery pack leaks and the material contacts your skin or clothing, flush the exposed area thoroughly with running water. In case of eye contact, flush thoroughly with copious amounts of clean running water and seek immediate medical assistance.

- Observe the following instructions when using a battery charger.
  - Periodically remove any dust buildup from the power plug and power outlet using a dry cloth.
  - Do not plug in or unplug the product with wet hands.
  - Do not use the product if the power plug is not fully inserted into the power outlet.
  - Do not expose the power plug and terminals to dirt or let them come into contact with metallic pins or other metal objects.
  - Do not touch the battery charger or AC adapter connected to a power outlet during lightning storms.
  - Do not place heavy objects on the power cord. Do not damage, break or modify the power cord.
  - Do not wrap the product in cloth or other materials when in use or shortly after use when the product is still warm in temperature.
  - Do not leave the product connected to a power source for long periods of time.

This may cause electric shock, explosion or fire.

- Do not allow the product to maintain contact with the same area of skin for extended periods of time during use.

This may result in low-temperature contact burns, including skin redness and blistering, even if the product does not feel hot. The use of a tripod or similar equipment is recommended when using the product in hot places and for people with circulation problems or less sensitive skin.

- Follow any indications to turn off the product in places where its use is forbidden.

Not doing so may cause other equipment to malfunction due to the effect of electromagnetic waves and even result in accidents.

⚠ CAUTION	Denotes the risk of injury.

- Do not fire the flash near the eyes.

It may hurt the eyes.

- Strap is intended for use on the body only. Hanging the strap with any product attached on a hook or other object may damage the product. Also, do not shake the product or expose the product to strong impacts.
- Do not apply strong pressure on the lens or allow an object to hit it.

This may cause injury or damage to the product.

- Flash emits high temperatures when fired. Keep fingers, any other part of your body, and objects away from the flash unit while taking pictures.

This may cause burns or malfunction of the flash.

- Do not leave the product in places exposed to extremely high or low temperatures.

The product may become extremely hot/cold and cause burns or injury when touched.

Caution	Denotes the possibility of property damage.

- Do not aim the camera at intense light sources, such as the sun on a clear day or an intense artificial light source.

Doing so may damage the image sensor or other internal components.

- When using the camera on a sandy beach or at a windy location, be careful not to allow dust or sand to enter the camera.
- Wipe off any dust, grime, or other foreign matter on the flash with a cotton swab or cloth.

The heat emitted from the flash may cause foreign matter to smoke or the product to malfunction.

- Remove and store the battery pack/batteries when you are not using the product.

Any battery leakage that occurs may cause product damage.

- Before you discard the battery pack/batteries, cover the terminals with tape or other insulators.

Contacting other metal materials may lead to fire or explosions.

- Unplug any battery charger used with the product when not in use. Do not cover with a cloth or other objects when in use.

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

- Do not leave any dedicated battery packs near pets.

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

- If your product uses multiple batteries, do not use batteries that have different levels of charge together, and do not use old and new batteries together. Do not insert the batteries with the + and – terminals reversed.

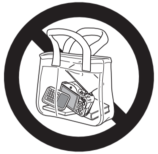
This may cause the product to malfunction.

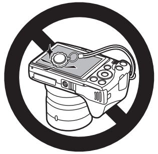
- Do not sit down with the camera in your pant pocket.

Doing so may cause malfunctions or damage the screen.

- When putting the camera in your bag, ensure that hard objects do not come into contact with the screen. Also close the screen (so that it faces the body), if your product's screen closes.
- Do not attach any hard objects to the product.

Doing so may cause malfunctions or damage the screen.





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Basic Guide

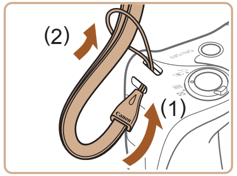
Basic Operations

Basic information and instructions, from initial preparations to shooting and playback

Initial Preparations

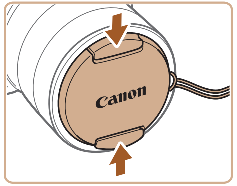
Prepare for shooting as follows.

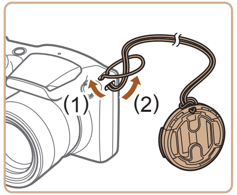
Attaching Accessories



1 Attach the strap.

- Thread the end of the strap through the strap mount (1), and then pull the other end of the strap through the loop on the threaded end (2).

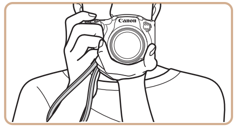




2 Attach the lens cap.

- Remove the lens cap from the lens momentarily, thread the end of the cord through the strap mount (1), and then pull the lens cap through the loop (2).
- Always remove the lens cap before turning the camera on.
- Keep the lens cap on the lens when the camera is not in use.

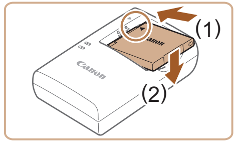
Holding the Camera



- Place the strap around your wrist.
- When shooting, keep your arms close to your body and hold the camera securely to prevent it from moving. If you have raised the flash, do not rest your fingers on it.

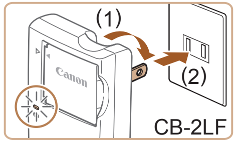
Charging the Battery Pack

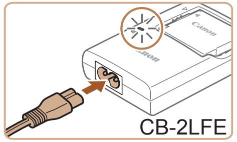
Before use, charge the battery pack with the included charger. Be sure to charge the battery pack initially, because the camera is not sold with the battery pack charged.



1 Insert the battery pack.

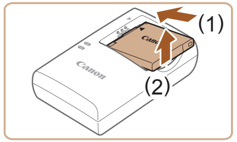
- After aligning the ▲ marks on the battery pack and charger, insert the battery pack by pushing it in (1) and down (2).





2 Charge the battery pack.

- CB-2LF: Flip out the plug (1) and plug the charger into a power outlet (2).
- CB-2LFE: 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 charging is finished, the lamp turns green.



3 Remove the battery pack.

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

- To protect the battery pack 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 pack, see “Recording” (📖139).
- Charged battery packs gradually lose their charge, even when they are not used. Charge the battery pack on (or immediately before) the day of use.
- 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 pack.

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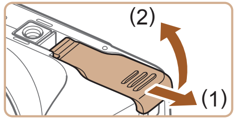
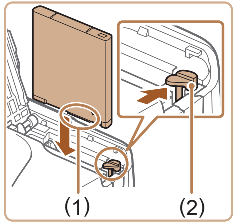
Inserting the Battery Pack and Your Memory Card

Insert the included battery pack and a memory card (sold separately). Note that before using a memory card that is new or has been formatted in another device, you should format the memory card with this camera (🕮106).



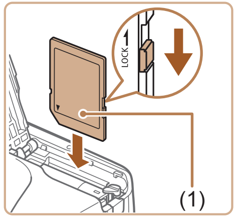
1 Open the cover.

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



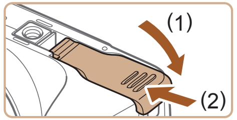
2 Insert the battery pack.

- Holding the battery pack with the terminals (1) facing as shown, press the battery lock (2) in the direction of the arrow and insert the battery pack until the lock clicks shut.
- If you insert the battery pack facing the wrong way, it cannot be locked into the correct position. Always confirm that the battery pack is facing the right way and locks when inserted.



3 Check your card's write-protect switch and insert the memory card.

- Recording is not possible on memory cards with a write-protect switch when the switch is in the locked position. Slide the switch to the unlocked position.
- Insert the memory card with the label (1) facing as shown until it clicks into place.
- 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.

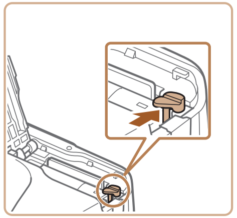


4 Close the cover.

- Lower the cover (1) and hold it down as you slide the switch, until it clicks into the closed position (2).

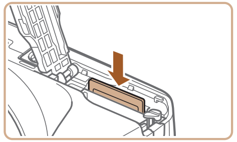
- For guidelines on how many shots or hours of recording can be saved on one memory card, see "Recording" (🕮139).

Removing the Battery Pack and Memory Card



Remove the battery pack.

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

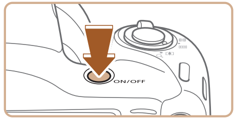


Remove the memory card.

- Push the memory card in until it clicks, and then slowly release it.
- The memory card will pop up.

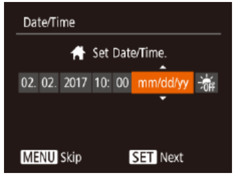
Setting the Date and Time

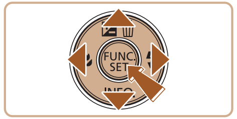
Set the current date and time correctly as follows if the [Date/Time] screen is displayed when you turn the camera on. Information you specify this way is recorded in image properties when you shoot, and it is used when you manage images by shooting date or print images showing the date. You can also add a date stamp to shots, if you wish (📖36).



1 Turn the camera on.

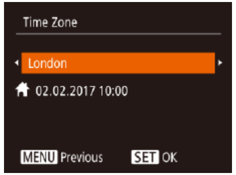
- Press the power button.
- The [Date/Time] screen is displayed.


Date/Time
Set Date/Time.
02. 02. 2017 10: 00 mm/dd/yy
MENU Skip
SET Next



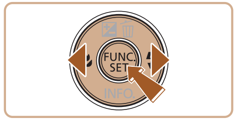
2 Set the date and time.

- Press the [◀][▶] buttons to choose an item.
- Press the [▲][▼] buttons to specify the date and time.
- When finished, press the [FUNC SET] button.


Time Zone
London
02.02.2017 10:00
MENU Previous
SET OK

3 Specify your home time zone.

- Press the [◀][▶] buttons to choose your home time zone.


FUNC. SET
INFO

4 Finish the setup process.

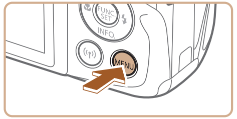
- Press the [FUNC SET] button when finished. After a confirmation message, the setting screen is no longer displayed.
- To turn off the camera, press the power button.

- Unless you set the date, time, and home 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.

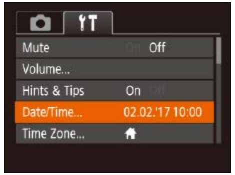
Changing the Date and Time

Adjust the date and time as follows.


FUNC. SET
INFO
MENU

1 Access the menu screen.

- Press the [MENU] button.


Mute On Off
Volume...
Hints & Tips On Off
Date/Time... 02.02.'17 10:00
Time Zone...

2 Choose [Date/Time].

- Move the zoom lever to choose the [ƳT] tab.
- Press the [▲][▼] buttons to choose [Date/Time], and then press the [FUNC SET] button.

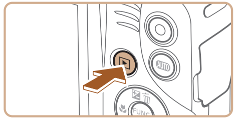
3 Change the date and time.

- Follow step 2 in “Setting the Date and Time” (📖18) to adjust the settings.
- Press the [MENU] button to close the menu screen.

- 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 pack, 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. Set the correct date and time as described in “Setting the Date and Time” (📖18).

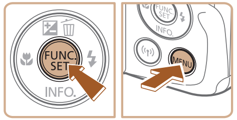
Display Language

Change the display language as needed.



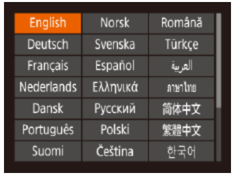
1 Enter Playback mode.

- Press the [▶] button.



2 Access the setting screen.

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



English	Norsk	Română
Deutsch	Svenska	Türkçe
Français	Español	العربية
Nederlands	Ελληνικά	ภาษาไทย
Dansk	Русский	简体中文
Português	Polski	繁體中文
Suomi	Čeština	한국어

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.

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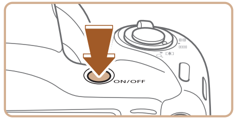
Trying the Camera Out

▶ Still Images ▶ Movies

Try out the camera by turning it on, shooting some still images or movies, and viewing them.

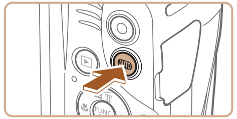
Shooting (Smart Auto)

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



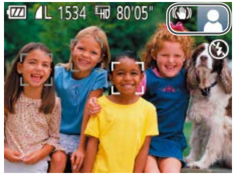
1 Turn the camera on.

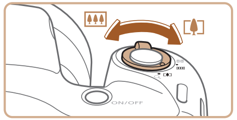
- Press the power button.
- The startup screen is displayed.



2 Enter [AUTO] mode.

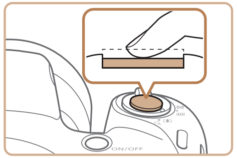
- Press the [AUTO] button several times until [AUTO] is displayed.
- Aim the camera at the subject. The camera will make a slight clicking noise as it determines the scene.
- Icons representing the scene and image stabilization mode are displayed in the upper right of the screen.
- Frames displayed around any detected subjects indicate that they are in focus.

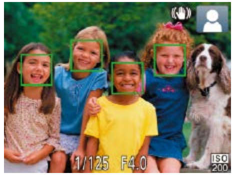




3 Compose the shot.

- To zoom in and enlarge the subject, move the zoom lever toward [🌲] (telephoto), and to zoom away from the subject, move it toward [🌲🌲🌲] (wide angle).



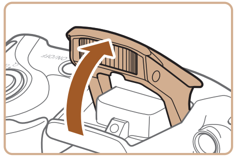


4 Shoot.

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.
- If [Raise the flash] is displayed, lift the flash with your fingers. It will fire when shooting. If you prefer not to use the flash, push it down with your finger, into the camera.



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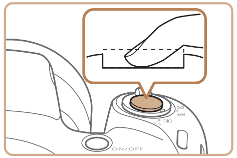
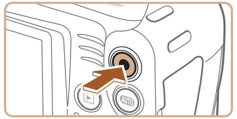


2) Shoot.

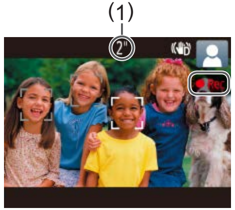
- Press the shutter button all the way down.
- As the camera shoots, a shutter sound is played, and in low-light conditions when you have raised the flash, it fires automatically.
- Keep the camera still until the shutter sound ends.
- After displaying your shot, the camera will revert to the shooting screen.

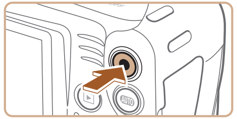


Recording Movies

1) Start recording.

- Press the movie button. The camera beeps once as recording begins, and [●Rec] is displayed with the elapsed time (1).
- Black bars are displayed on the top and bottom edges of the screen, and the subject is slightly enlarged. The black bars indicate image areas not recorded.
- Frames displayed around any detected faces indicate that they are in focus.
- Once recording begins, take your finger off the movie button.



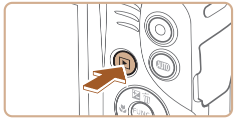


2) Finish recording.

- Press the movie button again to stop recording. The camera beeps twice as recording stops.

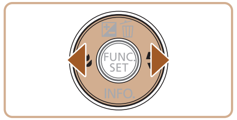
Viewing

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



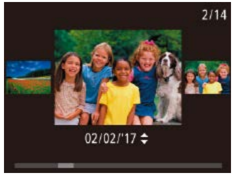
1 Enter Playback mode.

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



2 Choose images.

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



- To access this screen (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.

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

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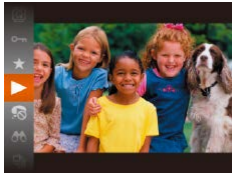


3 Play movies.

- 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.

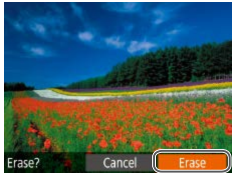
> - To switch to Shooting mode from Playback mode, press the shutter button halfway (📖24).

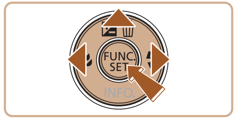
Erasing Images

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 [▲] button.
- 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 choose multiple images to erase at once (📖68).

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Advanced Guide

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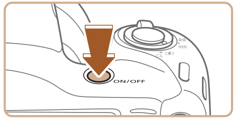
Camera Basics

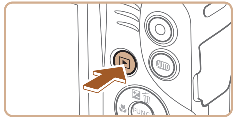
Other basic operations and more ways to enjoy your camera, including shooting and playback options

On/Off



Shooting Mode

- Press the power button to turn the camera on and prepare for shooting.
- To turn the camera off, press the power 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 (📖24).
- The lens will be retracted after about one minute once the camera is in Playback mode. You can turn the camera off when the lens is retracted by pressing the [▶] button.

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Power-Saving Features (Auto Power Down)

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

Power Saving in Shooting Mode

The screen is automatically deactivated after about one minute of inactivity. In about two more minutes, the lens is retracted and the camera turns itself off. To activate the screen and prepare for shooting when the screen is off but the lens is still out, press the shutter button halfway (📖24).

Power Saving in Playback Mode

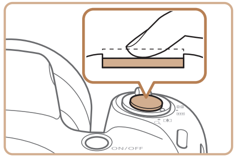
The camera turns itself off automatically after about five minutes of inactivity.

- You can deactivate Auto Power Down and adjust the timing of Display Off, if you prefer (📖105).
- Power saving is not active while the camera is connected to other devices via Wi-Fi (📖76), or when connected to a computer (📖114).

Shutter Button

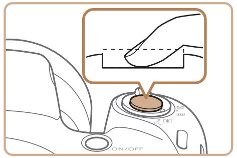
To ensure your shots are in focus, always begin by holding the shutter button halfway down, and once the subject is in focus, press the button all the way down to shoot.

In this guide, 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 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.

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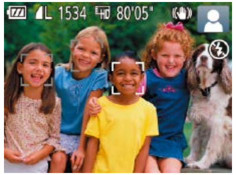
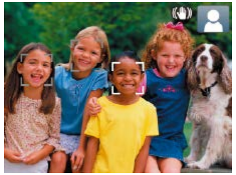
Shooting Display Options

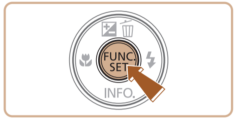
Press the [▼] button to view other information on the screen, or to hide the information. For details on the information displayed, see “On-Screen Information” (🕮129).

	Information is displayed
	No information is displayed

- Screen brightness is automatically increased by the night view 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 “Switching Display Modes” (🕮61).

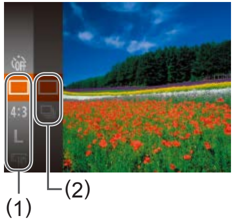
Using the FUNC. Menu

Configure commonly used functions through the FUNC. menu as follows. Note that menu items and options vary depending on the shooting mode (🕮132) or playback mode (🕮137).



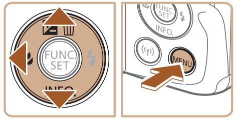
1 Access the FUNC. menu.

- Press the [FUNC SET] button.



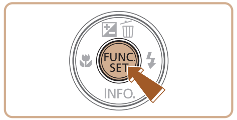
2 Choose a menu item.

- Press the [▲][▼] buttons to choose a menu item (1), and then press the [FUNC SET] or [▶] button.
- Available options (2) are listed next to menu items, on the right.
- Depending on the menu item, 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.
- Items labeled with a [MENU] icon can be configured by pressing the [MENU] button.
- To return to the menu items, press the [◀] button.



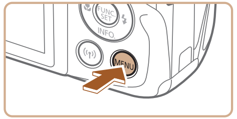
4 Confirm your choice and exit.

- 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 (📖109).

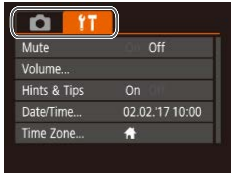
Using the Menu Screen

Configure a variety of camera functions through the menu screen as follows. Menu items are grouped by purpose on tabs, such as shooting [📷], playback [▶], and so on. Note that available menu items vary depending on the selected shooting or playback mode (📖134 – 📖137).

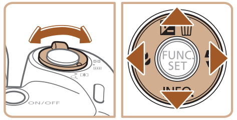


1 Access the menu screen.

- Press the [MENU] button.

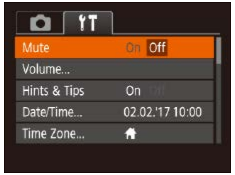


Mute On Off
Volume...
Hints & Tips On Off
Date/Time... 02.02.'17 10:00
Time Zone...

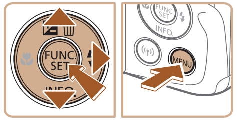


2 Choose a tab.

- Move the zoom lever to choose a tab.
- After you have pressed the [▲][▼] buttons to choose a tab initially, you can switch between tabs by pressing the [◀][▶] buttons.



Mute On Off
Volume...
Hints & Tips On Off
Date/Time... 02.02.'17 10:00
Time Zone...



3 Choose a menu item.

- Press the [▲][▼] buttons to choose an item.
- For menu items with options not shown, first press the [FUNC SET] or [▶] button to switch screens, and then press the [▲][▼] buttons to select the menu item.
- To return to the previous screen, press the [MENU] button.

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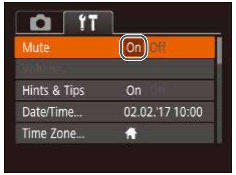
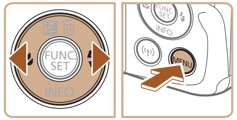

Mute On Off
Volume
Hints & Tips On Off
Date/Time... 02.02.'17 10:00
Time Zone...



4 **Choose an option.**

- Press the [◀][▶] buttons to choose an option.

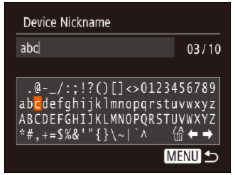
5 **Confirm your choice and exit.**

- 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 (📖109).

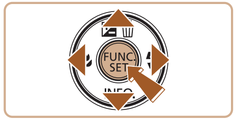
On-Screen Keyboard

Use the on-screen keyboard to enter information for Wi-Fi connections (📖76). Note that the length and type of information you can enter varies depending on the function you are using.


Device Nickname
abc 03/10
.@-_/:;!?()[]<>0123456789
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
*#,+=$%&'"{}\~|`^ 🗑 ⬅ ➡
MENU ↩

Entering Characters

- Press the [▲][▼][◀][▶] buttons to choose a character, and then press the [FUNC SET] button to enter it.



Moving the Cursor

- Choose [⬅] or [➡] and press the [FUNC SET] button.

Deleting Characters

- Choose [🗑] and press the [FUNC SET] button. The previous character will be deleted.

Confirming Input and Returning to the Previous Screen

- Press the [MENU] button.

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Indicator Display

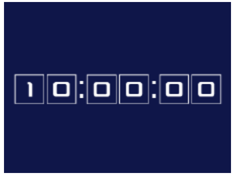
The indicator on the back of the camera (📖4) blinks in green at these times.

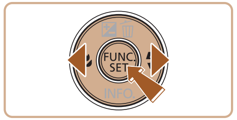
- Connected to a computer (📖114)
- Display off (📖24, 📖105, 📖105)
- Starting up, recording, or reading
- Communicating with other devices
- Shooting long exposures (📖47)
- Connecting/transmitting via Wi-Fi

- When the indicator blinks green, do not turn the camera off, open the memory card/battery cover, or shake or hit 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 power button to display the clock.

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2

Auto Mode

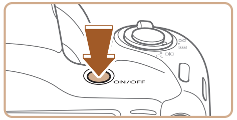
Convenient mode for easy shots with greater control over shooting

Shooting with Camera-Determined Settings

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

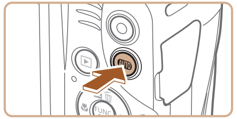
Shooting (Smart Auto)

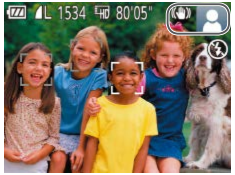
▶ **Still Images** ▶ **Movies**



1 Turn the camera on.

- Press the power button.
- The startup screen is displayed.





2 Enter [AUTO] mode.

- Press the [AUTO] button several times until [AUTO] is displayed.
- Aim the camera at the subject. The camera will make a slight clicking noise as it determines the scene.
- Icons representing the scene and image stabilization mode are displayed in the upper right of the screen (📖32, 📖33).
- Frames displayed around any detected subjects indicate that they are in focus.

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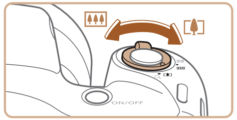
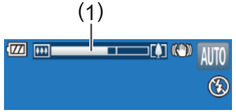




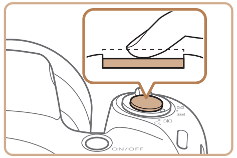
3 Compose the shot.

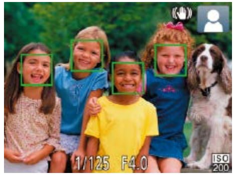
- To zoom in and enlarge the subject, move the zoom lever toward [♠] (telephoto), and to zoom away from the subject, move it toward [♠♠♠] (wide angle). (A zoom bar (1) showing the zoom position is displayed.)
- To zoom in or out quickly, move the zoom lever all the way toward [♠] (telephoto) or [♠♠♠] (wide angle), and to zoom in or out slowly, move it just a little in the desired direction.

4 Shoot.

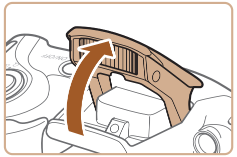
Shooting Still Images

1) Focus.

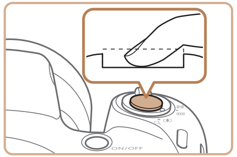




- Press the shutter button halfway. The camera beeps twice after focusing, and AF frames are displayed to indicate image areas in focus.
- Several AF frames are displayed when multiple areas are in focus.



- If [Raise the flash] is displayed, lift the flash with your fingers. It will fire when shooting. If you prefer not to use the flash, push it down with your finger, into the camera.

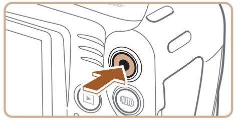


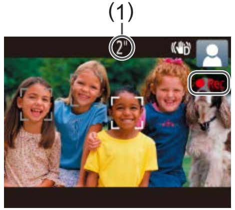
2) Shoot.

- Press the shutter button all the way down.
- As the camera shoots, a shutter sound is played, and in low-light conditions when you have raised the flash, it fires automatically.
- Keep the camera still until the shutter sound ends.
- After displaying your shot, the camera will revert to the shooting screen.

Recording Movies

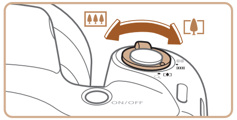
1) Start recording.





- Press the movie button. The camera beeps once as recording begins, and [●Rec] is displayed with the elapsed time (1).
- Black bars are displayed on the top and bottom edges of the screen, and the subject is slightly enlarged. The black bars indicate image areas not recorded.
- Frames displayed around any detected faces indicate that they are in focus.
- Once recording begins, take your finger off the movie button.

2) Resize the subject and recompose the shot as needed.



- To resize the subject, repeat the operations in step 3.
  However, note that the sound of camera operations will be recorded. Note that movies shot at zoom factors shown in blue will look grainy.

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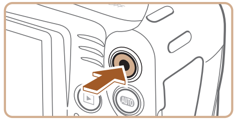
- When you recompose shots, the focus, brightness, and colors will be automatically adjusted.



3) Finish recording.

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

Still Images/Movies

- If the camera makes no operating sounds, it may have been turned on while holding down the [MENU] button. To activate sounds, press the [MENU] button, choose [Mute] on the [🔧] tab, and then press the [◀][▶] buttons to choose [Off].

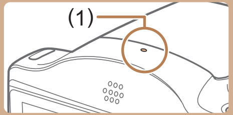
Still Images

- A blinking [📷] 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 “Flash” (□138).
- The subject may be too close if the camera only beeps once when you press the shutter button halfway. For details on the range of focus (shooting range), see “Shooting Range (measured from the tip of the lens)” (□138).
- To reduce red-eye and to assist in focusing, the lamp may be lit 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.
- Although you can shoot again before the shooting screen is displayed, your previous shot may determine the focus, brightness, and colors used.

- You can change how long images are displayed after shots (□40).

Movies

- Before shooting a movie, lower the flash with your finger. Be careful not to touch the microphone (1) when shooting a movie. Leaving the flash raised, or 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 recording movies, because sounds made by the camera will be recorded.
- Once movie recording begins, the image display area changes and subjects are enlarged to allow for correction of significant camera shake. To shoot subjects at the same size shown before shooting, adjust the image stabilization setting (□59).

- Audio recording is monaural.

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Scene Icons

▶ **Still Images** ▶ **Movies**

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.

Background	When Shooting People			Icon Background Color
	People	In Motion*1	Shadows on Face*1	
Bright	👤	👤	👤	Gray
Bright and Backlit	👤	👤	–	
With Blue Sky	👤	👤	👤	Light Blue
Blue Sky and Backlit	👤	👤	–	
Spotlights	👤	👤	👤	Dark Blue
Dark	👤	👤	👤	
Dark, Using Tripod	👤*2	–	–	

Background	When Shooting Other Subjects			Icon Background Color
	Other Subjects	In Motion*1	At Close Range	
Bright	AUTO	●	🌷	Gray
Bright and Backlit	☀	☀	☀	
With Blue Sky	AUTO	●	🌷	Light Blue
Blue Sky and Backlit	☀	☀	☀	
Sunsets	🌅	🌅	–	Orange
Spotlights	▲	▲	▲	Dark Blue
Dark	AUTO	AUTO	🌷	
Dark, Using Tripod	🌙*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 (📖49) 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

▶ **Still Images** ▶ **Movies**

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 (Normal)
((→))	Image stabilization for still images when panning (Panning)*
((🌷)) ((🌷🎥))	Image stabilization for angular camera shake and shift-shake in macro shots (Hybrid IS). For movies, [((🌷🎥))] is displayed and [((✋D))] image stabilization is also applied.
((✋D))	Image stabilization for movies, reducing strong camera shake, as when recording while walking (Dynamic)
((✋P))	Image stabilization for slow camera shake, such as when recording movies at telephoto (Powered)
((📷)) ((📷🎥))	No image stabilization, because the camera is mounted on a tripod or held still by other means. However, during movie recording, [((📷🎥))] is displayed, and image stabilization to counteract wind or other sources of vibration is used (Tripod IS).

* 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] (📖59). In this case, an IS icon is not displayed.

On-Screen Frames

▶ **Still Images** ▶ **Movies**

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).

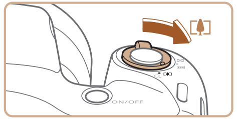
- Try shooting in [P] mode (📖49) if no frames are displayed, if frames are not displayed around desired subjects, or if frames are displayed on the background or similar areas.

Common, Convenient Features

▶ Still Images ▶ Movies

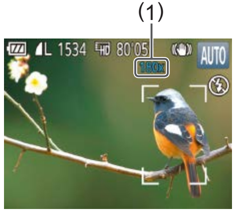
Zooming In Closer on Subjects (Digital Zoom)

When distant subjects are too far away to enlarge using the optical zoom, use digital zoom for up to about 180x enlargement.



1 **Move the zoom lever toward [🌲].**

- Hold the lever until zooming stops.
- Zooming stops at the largest zoom factor before the image becomes noticeably grainy, which is then indicated on the screen.



2 **Move the zoom lever toward [🌲] again.**

- The camera zooms in even closer on the subject.
- (1) is the current zoom factor.

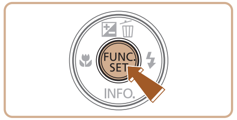
> - Moving the zoom lever will display the zoom bar (which indicates the zoom position). The zoom bar is color-coded to indicate the zoom range.
>   - White range: optical zoom range where the image will not appear grainy.
>   - Yellow range: digital zoom range where the image is not noticeably grainy (ZoomPlus).
>   - Blue range: digital zoom range where the image will appear grainy.
> - Because the blue range will not be available at some recording pixel settings (📖38), the maximum zoom factor can be achieved by following step 1.

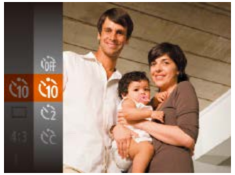
> - To deactivate digital zoom, choose MENU (📖26) > [📷] tab > [Digital Zoom] > [Off].

Using the Self-Timer

▶ Still Images ▶ Movies

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.



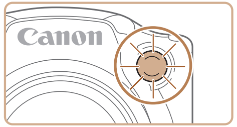


1 **Configure the setting.**

- Press the [FUNC/SET] button, choose [⏲OFF] in the menu, and then choose [⏲10] (📖25).
- 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.

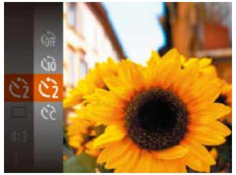


- Once you start the self-timer, the lamp will blink and the camera will play a self-timer sound.
- Two seconds before the shot, the blinking and sound will speed up. (The lamp will remain lit in case the flash fires.)
- To cancel shooting after you have triggered the self-timer, press the [MENU] button.
- To restore the original setting, choose [OFF] in step 1.

Using the Self-Timer to Avoid Camera Shake

▶ **Still Images** ▶ **Movies**

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.

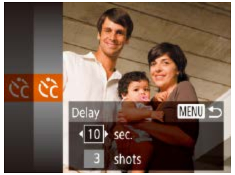


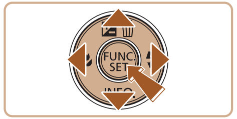
- Follow step 1 in “Using the Self-Timer” (📖34) and choose [2].
- Once the setting is complete, [2] is displayed.
- Follow step 2 in “Using the Self-Timer” (📖34) to shoot.

Customizing the Self-Timer

▶ **Still Images** ▶ **Movies**

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


Delay
10 sec.
3 shots



1 Choose [C].

- Following step 1 in “Using the Self-Timer” (📖34), choose [C] and press the [MENU] button.

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 in “Using the Self-Timer” (📖34) 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.)

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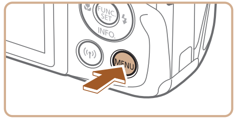
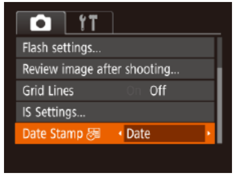
Adding a Date Stamp

▶ **Still Images** ▷ Movies

The camera can add the shooting date to images, in the lower-right corner.
However, note that date stamps cannot be edited or removed, so confirm beforehand that the date and time are correct (📖18).




Flash settings...
Review image after shooting...
Grid Lines On Off
IS Settings...
Date Stamp 🗓 ◂ Date ▸

1 Configure the setting.

- Press the [MENU] button, choose [Date Stamp 🗓] on the [📷] tab, and then choose the desired option (📖26).
- Once the setting is complete, [🗓] 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.

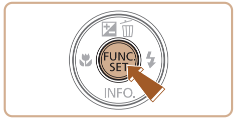
> ! - Date stamps cannot be edited or removed.

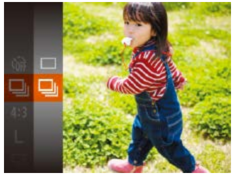
> - Shots taken without adding a date stamp can be printed with one as follows.
> However, adding a date stamp this way to images that already have one may cause it to be printed twice.
>   - Print using printer functions (📖116)
>   - Use camera DPOF print settings (📖119) to print

Continuous Shooting

▶ **Still Images** ▷ Movies

Hold the shutter button all the way down to shoot continuously.
For details on the continuous shooting speed, see “Continuous Shooting” (📖139).





1 Configure the setting.

- Press the [FUNC. SET] button, choose [□] in the menu, and then choose [⧉] (📖25).
- Once the setting is complete, [⧉] is displayed.

2 Shoot.

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

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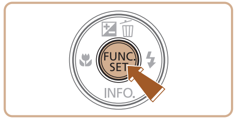
- During continuous shooting, focus and exposure are locked at the position/level determined when you pressed the shutter button halfway.
- Cannot be used with the self-timer (📖34).
- Shooting may stop momentarily or continuous shooting may slow down depending on shooting conditions, camera settings, and the zoom position.
- As more shots are taken, shooting may slow down.
- Shooting may slow down if the flash fires.

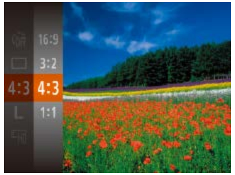
Image Customization Features

Changing the Aspect Ratio

▶ **Still Images** ▷ Movies

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





- Press the [FUNC SET] button, choose [4:3] in the menu, and choose the desired option (📖25).
- 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 widescreen HDTVs.
3:2	Same aspect ratio as 35mm film, used for printing images at 5 x 7-inch or postcard sizes.
4:3	Native aspect ratio of the camera screen. Used for display on standard-definition televisions or similar display devices. Also used for printing images at 3.5 x 5-inch or A-series sizes.
1:1	Square aspect ratio.

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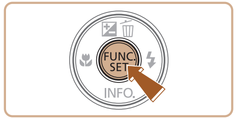
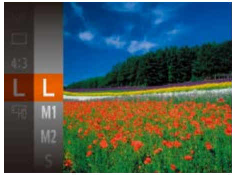
Changing the Number of Recording Pixels (Image Size)

▶ Still Images ▷ Movies

Choose the image's number of recording pixels from 4 levels, as follows. For guidelines on how many shots at each recording pixel setting can fit on a memory card, see "Recorded Pixels, Number of shots per a memory card" (□139).





- Press the [FUNC SET] button, choose [L] in the menu, and choose the desired option (□25).
- The option you configured is now displayed.
- To restore the original setting, repeat this process but choose [L].

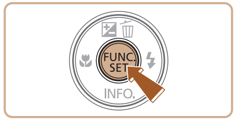
Guidelines for Choosing Recording Pixel Setting Based on Paper Size (for 4:3 Images)

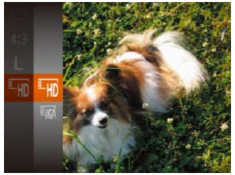
L	A2 (16.5 x 23.4 in.)
M1	A3 – A5 (11.7 x 16.5 – 5.8 x 8.3 in.)
M2	3.5 x 5 in., 5 x 7 in., Postcard
S	For e-mailing and similar purposes

Changing Movie Image Quality

▷ Still Images **▶ Movies**

Two image quality settings are available. For guidelines on the total recording time for movies at each level of image quality that will fit on a memory card, see "Recorded Pixels, Number of shots per a memory card" (□139).





- Press the [FUNC SET] button, choose [HD] in the menu, and choose the desired option (□25).
- The option you configured is now displayed.
- To restore the original setting, repeat this process but choose [HD].

Image Quality	Number of Recording Pixels	Frame Rate	Details
HD	1280 x 720	25 fps	For shooting in HD.
VGA	640 x 480	30 fps	For shooting in standard definition.

- In [HD] mode, black bars displayed on the top and bottom edges of the screen indicate image areas not recorded.

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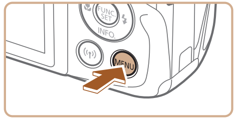
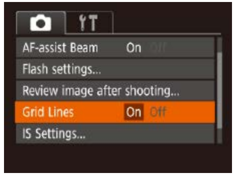
Helpful Shooting Features

Displaying Grid Lines

▶ Still Images ▶ Movies

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





AF-assist Beam On Off
Flash settings...
Review image after shooting...
Grid Lines On Off
IS Settings...

- Press the [MENU] button, choose [Grid Lines] on the [📷] tab, and then choose [On] (📖26).
- 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.

Customizing Camera Operation

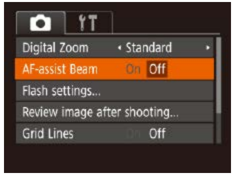
Customize shooting functions on the [📷] tab of the menu screen as follows.

For instructions on menu functions, see “Using the Menu Screen” (📖26).

Deactivating the AF-Assist Beam

▶ Still Images ▶ Movies

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-assist Beam On Off
Flash settings...
Review image after shooting...
Grid Lines On Off

- Press the [MENU] button, choose [AF-assist Beam] on the [📷] tab, and then choose [Off] (📖26).
- To restore the original setting, repeat this process but choose [On].

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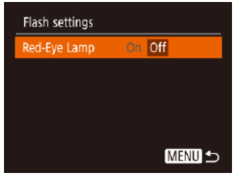
Deactivating the Red-Eye Reduction Lamp

▶ **Still Images** ▷ Movies

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



1 Access the [Flash settings] screen.

- Press the [MENU] button, choose [Flash settings] on the [📷] tab, and then press the [FUNC SET] button (📖26).

2 Configure the setting.

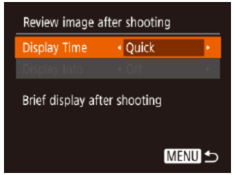
- Choose [Red-Eye Lamp], and then choose [Off] (📖26).
- To restore the original setting, repeat this process but choose [On].

Changing the Image Display Style after Shots

▶ **Still Images** ▷ Movies

You can change how long images are displayed and what information is displayed immediately after shooting.

Changing the Image Display Period after Shots



1 Access the [Review image after shooting] screen.

- Press the [MENU] button, choose [Review image after shooting] on the [📷] tab, and then press the [FUNC SET] button (📖26).

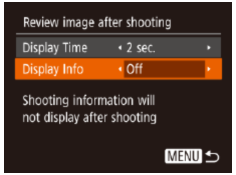
2 Configure the setting.

- Press the [▲][▼] buttons to choose [Display Time]. Press the [◀][▶] buttons to choose the desired option.
- To restore the original setting, repeat this process but choose [Quick].

Quick	Displays images only until you can shoot again.
2 sec., 4 sec., 8 sec.	Displays images for the specified time. Even while the shot is displayed, you can take another shot by pressing the shutter button halfway again.
Hold	Displays images until you press the shutter button halfway.
Off	No image display after shots.

Changing the Screen Displayed after Shots

Change the way images are displayed after shots as follows.



Review image after shooting

Display Time ◂ 2 sec. ▸

Display Info ◂ Off ▸

Shooting information will not display after shooting

1 Set [Display Time] to [2 sec.], [4 sec.], [8 sec.], or [Hold] (📖40).

2 Configure the setting.

- Press the [▲][▼] buttons to choose [Display Info]. Press the [◀][▶] buttons to choose the desired option.
- To restore the original setting, repeat this process but choose [Off].

Off	Displays only the image.
Detailed	Displays shooting details (📖130).

- When [Display Time] (📖40) is set to [Off] or [Quick], [Display Info] is set to [Off] and cannot be changed.
- By pressing the [▼] button while an image is displayed after shooting, you can switch the display information. Note that the settings of [Display Info] are not changed. You can also erase images by pressing the [▲] button, or protect (📖66) or tag images as favorites (📖71) by pressing the [FUNC SET] button.

3

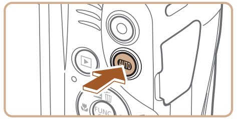
Other Shooting Modes

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

Brightness / Color Customization (Live View Control)

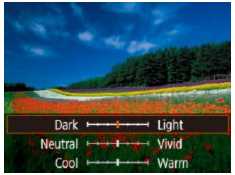
▶ Still Images ▶ Movies

Image brightness or colors when shooting can be easily customized as follows.



1 Enter [LIVE] mode.

- Press the [AUTO] button several times until [LIVE] is displayed.



2 Configure the setting.

- Press the [▼] button to access the setting screen. Press the [▲][▼] buttons to choose a setting item, and then press the [◀][▶] buttons to adjust the value as you watch the screen.
- Press the [FUNC SET] button.

3 Shoot.

Brightness	For brighter images, adjust the level to the right, and for darker images, adjust it to the left.
Color	For more vivid images, adjust the level to the right, and for more subdued images, adjust it to the left.
Tone	For a warm, reddish tone, adjust the level to the right, and for a cool, bluish tone, adjust it to the left.

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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 [AUTO] button several times until [LIVE] is displayed.
- Press the [FUNC/SET] button, choose [LIVE] in the menu, and choose the desired option (📖25).

2 Shoot.

Shooting Portraits (Portrait)

▶ Still Images ▶ Movies

- Take shots of people with a softening effect.

☼ Shooting under Low Light (Low Light)

▶ Still Images ▷ Movies

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

❊ Shooting Fireworks (Fireworks)

▶ Still Images ▶ Movies

- Vivid shots of fireworks.

!

- In [❊] mode, mount the camera on a tripod or take other measures to keep it still and prevent camera shake. Additionally, you should set [IS Mode] to [Off] when using a tripod or other means to secure the camera (📖59).

✎

- [☼] mode recording pixel setting is [M] (2560 x 1920) and cannot be changed.
- In [❊] mode, although no frames are displayed when you press the shutter button halfway, optimal focus is still determined.

Applying Special Effects

Add a variety of effects to images when shooting.

1 Choose a shooting mode.

- Follow step 1 in “Specific Scenes” (43) to choose a shooting mode.

2 Shoot.

Shooting in Vivid Colors (Super Vivid)

▶ Still Images ▶ Movies

- Shots in rich, vivid colors.

Posterized Shots (Poster Effect)

▶ Still Images ▶ Movies

- Shots that resemble an old poster or illustration.

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

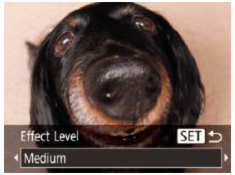
Shooting with a Fish-Eye Lens Effect (Fish-Eye Effect)

▶ Still Images ▷ Movies

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

1 Choose [ ].

- Follow step 1 in “Specific Scenes” (43) 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.

- Try taking some test shots first, to make sure you obtain the desired results.

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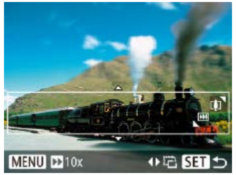
Shots Resembling Miniature Models (Miniature Effect)

▶ **Still Images** ▶ **Movies**

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.

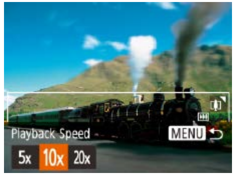
1 Choose [ ].

- Follow step 1 in “Specific Scenes” (□43) and choose [ ].
- A white frame is displayed, indicating the image area that will not be blurred.



2 Choose the area to keep in focus.

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



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.

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.

Movies are played back at 30 fps.

- The zoom is not available when shooting movies. Be sure to set the zoom before shooting.
- Try taking some test shots first, to make sure you obtain the desired results.

- To switch the orientation of the frame to vertical, press the [◀][▶] buttons in step 2. To return the frame to horizontal orientation, press the [▲][▼] buttons.
- To move the frame when it is in horizontal orientation, press the [▲][▼] buttons, and to move the frame when it is in vertical orientation, press the [◀][▶] buttons.
- Holding the camera vertically will change the orientation of the frame.
- Movie image quality is [VGA] at an aspect ratio of [4:3] and [HD] at an aspect ratio of [16:9] (□37). These quality settings cannot be changed.

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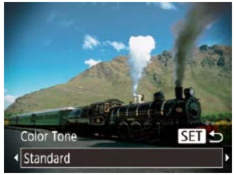
Shooting with a Toy Camera Effect (Toy Camera Effect)

▶ **Still Images** ▶ Movies

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



Color Tone SET ⮌

◀ Standard ▶

1 Choose [📷].

- Follow step 1 in “Specific Scenes” (📖43) 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.

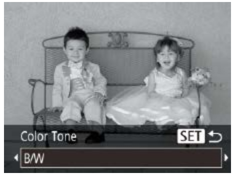
Standard	Shots resemble toy camera images.
Warm	Images have a warmer tone than with [Standard].
Cool	Images have a cooler tone than with [Standard].

- Try taking some test shots first, to make sure you obtain the desired results.

Shooting in Monochrome

▶ **Still Images** ▶ **Movies**

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



Color Tone SET ⮌

◀ B/W ▶

1 Choose [◪].

- Follow step 1 in “Specific Scenes” (📖43) 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.

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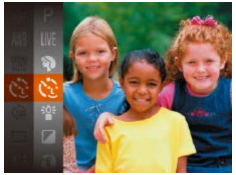
Special Modes for Other Purposes

Auto Shooting after Detecting New Person (Face Self-Timer)

▶ **Still Images** ▷ Movies

The camera will shoot about two seconds after detecting that the face of another person (such as the photographer) has entered the shooting area (📖55). This is useful when including yourself in group photos or similar shots.



1 **Choose [⏱].**

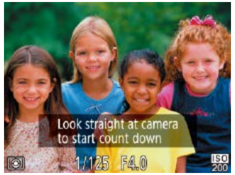
- Follow step 1 in “Specific Scenes” (📖43) and choose [⏱].

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, after choosing [⏱] in step 1, press the [▼] button, press the [◀][▶] buttons to choose the number of shots, and then press the [FUNC SET] button.

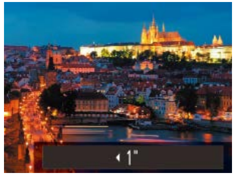
Shooting Long Exposures (Long Shutter)

▶ **Still Images** ▷ Movies

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 in “Specific Scenes” (📖43) and choose [✩].



2 Choose the shutter speed.

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

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 secure the camera (📖59).

- If the flash fires, your shot may be overexposed. In this case, set the flash to [⚡] and shoot again (📖57).

4

P Mode

More discerning shots, in your preferred shooting style

- Instructions in this chapter apply to the camera when set to [P] mode.
- [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 (📖131).

Shooting in Program AE ([P] Mode)

▶ **Still Images** ▶ **Movies**

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

1534
80'05"
P
ISO AUTO

1 Enter [P] mode.

- Follow step 1 in "Specific Scenes" (📖43) and choose [P].

2 Customize the settings as desired (📖50 – 📖59), and then shoot.

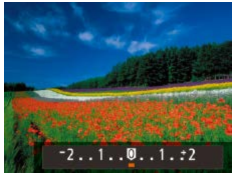
- If the optimum exposure cannot be obtained when you press the shutter button halfway, the shutter speed and aperture value are displayed in orange. In this case, try adjusting the ISO speed (📖51) or activating the flash (if subjects are dark, 📖57), which may enable optimum exposure.
- Movies can be recorded in [P] mode as well, by pressing the movie button. However, some FUNC. (📖25) and MENU (📖26) settings may be automatically adjusted for movie recording.

Image Brightness (Exposure)

Adjusting Image Brightness (Exposure Compensation)

▶ **Still Images** ▶ **Movies**

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



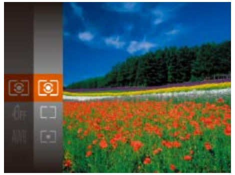
- Press the [▲] button. As you watch the screen, press the [◀][▶] buttons to adjust brightness.
- When shooting movies, shoot with the exposure compensation bar displayed.
- When shooting still images, press the [FUNC SET] button to display the set exposure compensation amount, and then shoot.

> - You can also shoot still images with exposure compensation bar displayed.
> - While recording a movie, [AEL] is displayed, and the exposure is locked.

Changing the Metering Method

▶ **Still Images** ▷ Movies

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



- Press the [FUNC SET] button, choose [⊙] in the menu, and choose the desired option (📖25).
- 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.

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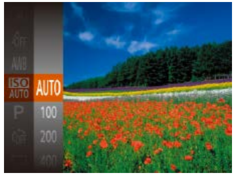
Changing the ISO Speed

▶ **Still Images** ▷ Movies

Set the ISO speed to [AUTO] for automatic adjustment to suit the shooting mode and conditions. Otherwise, set a higher ISO speed for higher sensitivity, or a lower value for lower sensitivity.



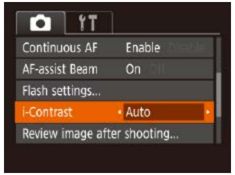
- Press the [FUNC/SET] button, choose [ISO AUTO] in the menu, and choose the desired option (📖25).
- The option you configured is now displayed.

- To view the automatically determined ISO speed when you have set the ISO speed to [AUTO], press the shutter button halfway.
- Although choosing a lower ISO speed may reduce image graininess, there may be a greater risk of subject and camera shake in some shooting conditions.
- Choosing a higher ISO speed will increase shutter speed, which may reduce subject and camera shake and increase the flash range. However, shots may look grainy.

Correcting Image Brightness (i-Contrast)

▶ **Still Images** ▷ Movies

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.


Continuous AF Enable
AF-assist Beam On
Flash settings...
i-Contrast Auto
Review image after shooting...

- Press the [MENU] button, choose [i-Contrast] on the [📷] tab, and then choose [Auto] (📖26).
- Once the setting is complete, [Ci] is displayed.

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

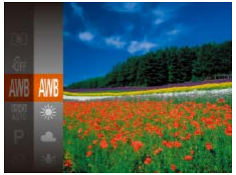
- You can also correct existing images (📖74).

Image Colors

Adjusting White Balance

▶ **Still Images** ▶ **Movies**

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



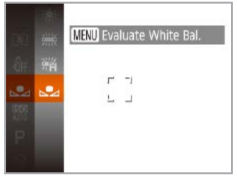
- Press the [FUNC SET] button, choose [AWB] in the menu, and choose the desired option (📖25).
- The option you configured is now displayed.

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 weather or at twilight.
Tungsten	For shooting under ordinary incandescent lighting.
Fluorescent	For shooting under white fluorescent lighting.
Fluorescent H	For shooting under daylight fluorescent lighting.
Custom	For manually setting a custom white balance (📖52).

Custom White Balance

▶ **Still Images** ▶ **Movies**

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.



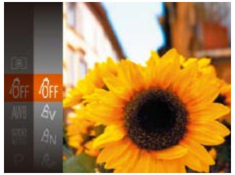
- Follow the steps in “Adjusting White Balance” (📖52) to choose [ ].
- Aim the camera at a plain white subject, so that the entire screen is white. Press the [MENU] button.
- The tint of the screen changes once the white balance data has been recorded.

> ❗ • Colors may look unnatural if you change camera settings after recording white balance data.

Changing Image Color Tones (My Colors)

▶ **Still Images** ▶ **Movies**

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 (📖25).
- The option you configured is now displayed.

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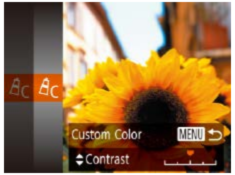
OFF	My Colors Off	–
V	Vivid	Emphasizes contrast and color saturation, making images sharper.
N	Neutral	Tones down contrast and color saturation for subdued images.
Se	Sepia	Creates sepia tone images.
BW	B/W	Creates black and white images.
P	Positive Film	Combines the effects of Vivid Blue, Vivid Green, 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 (📖53).

- White balance (📖52) cannot be set in [Se] or [BW] modes.
- With [L] and [D] modes, colors other than people’s skin tone may change. These settings may not produce the expected results with some skin tones.

Custom Color

▶ Still Images ▶ Movies

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)” (📖52) to choose [C], and then press the [MENU] button.

2 Configure the setting.

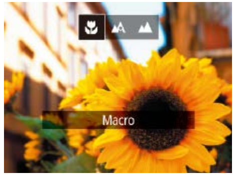
- Press the [▲][▼] buttons to choose an item, and then specify the value by pressing the [◀][▶] buttons.
- For stronger/more intense effects (or darker skin tones), adjust the value to the right, and for weaker/lighter effects (or lighter skin tones), adjust the value to the left.
- Press the [MENU]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

Shooting Range and Focusing

Shooting Close-Ups (Macro)

▶ **Still Images** ▷ Movies

To restrict the focus to subjects at close range, set the camera to [🌷]. For details on the range of focus, see “Shooting Range (measured from the tip of the lens)” (🕮138).



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

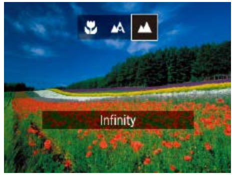
- If the flash fires, vignetting may occur.
- Be careful to avoid damaging the lens.
- In the yellow bar display area below the zoom bar, [🌷] will turn gray and the camera will not focus.

- To prevent camera shake, try mounting the camera on a tripod and shooting with the camera set to [⏲] (🕮35).

Shooting Distant Subjects (Infinity)

▶ **Still Images** ▷ Movies

To restrict the focus to distant subjects, set the camera to [▲]. For details on the range of focus, see “Shooting Range (measured from the tip of the lens)” (🕮138).

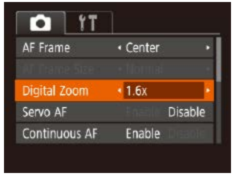


- Press the [◀] button, press the [◀][▶] buttons to choose [▲], and then press the [FUNC SET] button.
- Once the setting is complete, [▲] is displayed.

Digital Tele-Converter

▶ **Still Images** ▶ **Movies**

The focal length of the lens can be increased by approximately 1.6x 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 ◂ Center ▸
Digital Zoom ◂ 1.6x ▸
Servo AF Enable Disable
Continuous AF Enable Disable

- Press the [MENU] button, choose [Digital Zoom] on the [📷] tab, and then choose the desired option (🕮26).
- The view is enlarged and the zoom factor is displayed on the screen.

- Cannot be used with the digital zoom (🕮34).

- The shutter speed may be equivalent when you move the zoom lever all the way toward [🌲] for maximum telephoto, and when you zoom in to enlarge the subject to the same size following step 2 in “Zooming In Closer on Subjects (Digital Zoom)” (🕮34).

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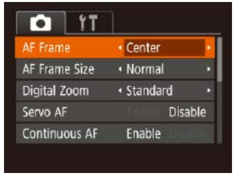
Changing the AF Frame Mode

▶ **Still Images** ▶ **Movies**

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



AF Frame ‹ Center ›
AF Frame Size ‹ Normal ›
Digital Zoom ‹ Standard ›
Servo AF Enable Disable
Continuous AF Enable Disable

- Press the [MENU] button, choose [AF Frame] on the [📷] tab, and then choose the desired option (📖26).

Center

▶ **Still Images** ▶ **Movies**

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.

- To reduce the AF frame size, press the [MENU] button and set [AF Frame Size] on the [📷] tab to [Small] (📖26).
- The AF frame size is set to [Normal] when you use the digital tele-converter (📖54).
- To compose shots so that subjects are positioned at the edge or in a corner, first aim the camera to capture the subject in an AF frame, and then hold the shutter button halfway down. As you continue to hold the shutter button halfway, recompose the shot as desired, and then press the shutter button all the way down (Focus Lock).

Face AiAF

▶ **Still Images** ▶ **Movies**

- 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 (📖56) is set to [Enable], 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.

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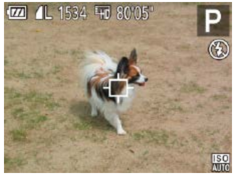
Choosing Subjects to Focus On (Tracking AF)

▶ **Still Images** ▷ Movies

Shoot after choosing a subject to focus on as follows.

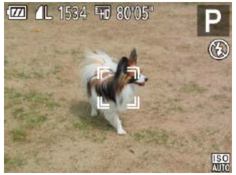
1 Choose [Tracking AF].

- Follow the steps in "Changing the AF Frame Mode" (📖55) 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) (📖56).
- 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.

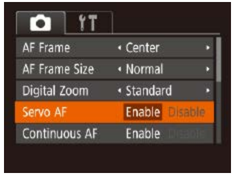
- [Servo AF] (📖56) is set to [Enable] and cannot be changed.
- Tracking may not be possible when subjects are too small or move too rapidly, or when subject color or brightness matches that of the background too closely.
- [🌷] and [▲] are not available.

- 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.

Shooting with Servo AF

▶ **Still Images** ▷ Movies

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 ◂ Center ▸
AF Frame Size ◂ Normal ▸
Digital Zoom ◂ Standard ▸
Servo AF Enable Disable
Continuous AF Enable Disable

1 Configure the setting.

- Press the [MENU] button, choose [Servo AF] on the [📷] tab, and then choose [Enable] (📖26).

2 Focus.

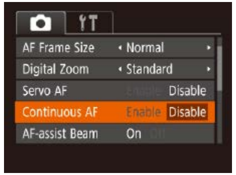
- The focus and exposure are maintained where the blue AF frame is displayed while you are pressing the shutter button halfway.

- 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 optimum exposure cannot be obtained, the shutter speed and aperture value are displayed in orange. Release the shutter button, and then press it halfway again.
- Not available when using the self-timer (📖34).

Changing the Focus Setting

▶ **Still Images** ▷ Movies

You can change default camera operation of constantly focusing on subjects it is aimed at, even when the shutter button is not pressed. Instead, you can limit camera focusing to the moment you press the shutter button halfway.


AF Frame Size ‹ Normal ›
Digital Zoom ‹ Standard ›
Servo AF Enable Disable
Continuous AF Enable Disable
AF-assist Beam On Off

- Press the [MENU] button, choose [Continuous AF] on the [📷] tab, and then choose [Disable] (📖26).

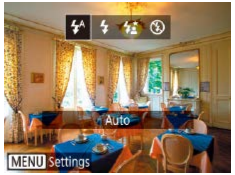
Enable	Helps avoid missing sudden photo opportunities, because the camera constantly focuses on subjects until you press the shutter button halfway.
Disable	Conserves battery power, because the camera does not focus constantly.

Flash

Changing the Flash Mode

▶ **Still Images** ▷ Movies

You can change the flash mode to match the shooting scene. For details on the flash range, see “Flash” (📖138).



1 Lift the flash.

2 Configure the setting.

- Press the [▶] button, press the [◀][▶] buttons to choose a flash mode, and then press the [FUNC SET] button.
- The option you configured is now displayed.

- The setting screen cannot be accessed by pressing the [▶] button when the flash is lowered. Lift the flash with your finger in advance.

Auto

Fires automatically in low-light conditions.

On

Fires for each shot.

Slow Synchro

Fires to illuminate the main subject (such as people) while shooting at a slower shutter speed to illuminate backgrounds out of flash range.

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- In [⚡★] mode, mount the camera on a tripod or take other measures to keep it still and prevent camera shake. Additionally, you should set [IS Mode] to [Off] when using a tripod or other means to secure the camera (📖59).
- In [⚡★] mode, even after the flash fires, ensure that the main subject does not move until the shutter sound is finished playing.

Off

For shooting without the flash.

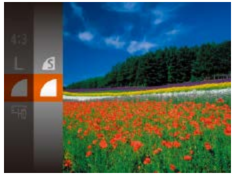
- If a blinking [📷] icon is displayed when you press the shutter button halfway in camera-shake inducing, low-light conditions, mount the camera on a tripod or take other measures to keep it still.

Other Settings

Changing the Compression Ratio (Image Quality)

▶ **Still Images** ▷ Movies

Choose from two compression ratios, [S] (Super Fine) and [◢] (Fine), as follows. For guidelines on how many shots at each compression ratio can fit on a memory card, see “Recording” (📖139).



- Press the [FUNC SET] button, choose [◢] in the menu, and choose the desired option (📖25).

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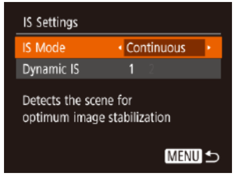
Changing the IS Mode Settings

▶ **Still Images** ▶ **Movies**



IS Settings
IS Mode ◂ Continuous ▸
Dynamic IS 1 2
Detects the scene for optimum image stabilization
MENU ↩

1 Access the setting screen.

- Press the [MENU] button, choose [IS Settings] on the [📷] tab, and then press the [FUNC SET] button (📖26).

2 Configure the setting.

- Choose [IS Mode], and then choose the desired option (📖26).

Continuous	Optimal image stabilization for the shooting conditions is automatically applied (Intelligent IS) (📖33).
Shoot Only*	Image stabilization is active only at the moment of shooting.
Off	Deactivates image stabilization.

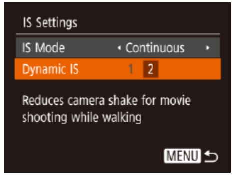
* The setting is changed to [Continuous] for movie recording.

- 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].

Recording Movies with Subjects at the Same Size Shown before Shooting

▶ Still Images ▶ **Movies**

Normally, once movie recording begins, the image display area changes and subjects are enlarged to allow for correction of significant camera shake. To shoot subjects at the same size shown before shooting, you can choose not to reduce significant camera shake.



IS Settings
IS Mode ◂ Continuous ▸
Dynamic IS 1 2
Reduces camera shake for movie shooting while walking
MENU ↩

- Follow the steps in “Changing the IS Mode Settings” (📖59) to access the [IS Settings] screen.
- Choose [Dynamic IS], and then choose [2] (📖26).

- When the movie quality is [VGA] (📖38), Dynamic IS is [1] and cannot be changed.
- You can also set [IS Mode] to [Off], so that subjects are recorded at the same size shown before shooting.

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5

Playback Mode

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

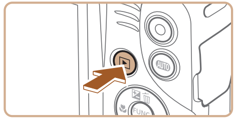
- To prepare the camera for these operations, press the [▶] button to enter Playback mode.

> - 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.

Viewing

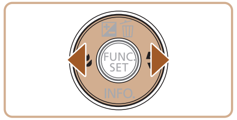
▶ Still Images ▶ Movies

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



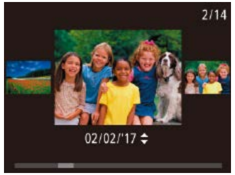
1 Enter Playback mode.

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

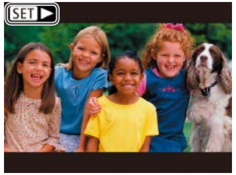


2 Choose images.

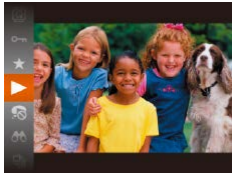
- To view the previous image, press the [◀] button. To view the next image, press the [▶] button.



- To access this screen (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.

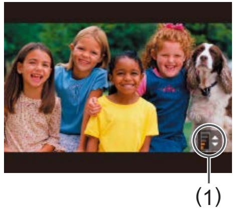


- Movies are identified by a [SET ▶] icon. To play movies, go to step 3.



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.
- To adjust the volume when the volume indicator (1) is no longer displayed, press the [▲][▼] buttons.

5 Pause playback.

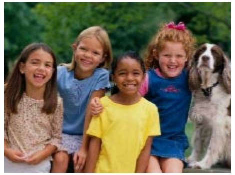
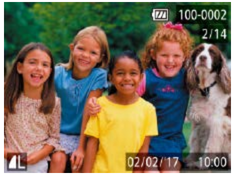
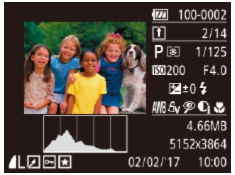
- To pause or resume playback, press the [FUNC SET] button.
- After the movie is finished, [SET ▶] is displayed.

- To switch to Shooting mode from Playback mode, press the shutter button halfway.
- To deactivate Scroll Display, choose MENU (📖26) > [▶] tab > [Scroll Display] > [Off].
- To have the most recent shot displayed when you enter Playback mode, choose MENU (📖26) > [▶] tab > [Resume] > [Last shot].
- To change the transition shown between images, access MENU (📖26) and choose your desired effect on the [▶] tab > [Transition].

Switching Display Modes

▶ **Still Images** ▶ **Movies**

Press the [▼] button to view other information on the screen, or to hide the information. For details on the information displayed, see “Playback (Detailed Information Display)” (📖130).

	No Information Display
	Simple Information Display
 100-0002 2/14 P 1/125 200 F4.0 ±0 4.66MB 5152x3864 02/02/'17 10:00	Detailed Information Display

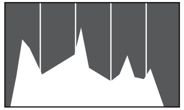
Overexposure Warning (for Image Highlights)

▶ **Still Images** ▶ **Movies**

Washed-out highlights in the image flash on the screen in detailed information display (📖61).

Histogram

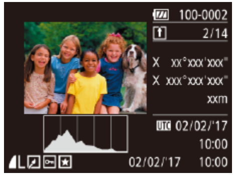
▶ **Still Images** ▶ **Movies**



- The graph in detailed information display (📖61) 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

▶ **Still Images** ▶ **Movies**



- Using a smartphone connected to the camera via Wi-Fi, you can geotag images on the camera, adding information such as latitude, longitude, and elevation (📖99). You can review this information in the GPS information display.
- Latitude, longitude, elevation, and UTC (shooting date and time) are listed from top to bottom.

- GPS information display is not available for images that lack this information.
- [---] is shown instead of numerical values for items not available on your smartphone or items not recorded correctly.

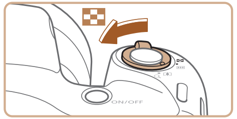
- UTC: Coordinated Universal Time, essentially the same as Greenwich Mean Time

Browsing and Filtering Images

Navigating through Images in an Index

▶ **Still Images** ▶ **Movies**

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



1 Display images in an index.

- Move the zoom lever toward [▦] to display images in an index. Moving the lever again will increase the number of images shown.
- To display fewer images, move the zoom lever toward [🔍]. Fewer images are shown each time you move the lever.

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.

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Finding Images Matching Specified Conditions

▶ **Still Images** ▶ **Movies**

Find desired images quickly on a memory card full of images by filtering image display according to your specified conditions. You can also protect (□66) or delete (□68) these images all at once.

👥 People	Displays images with detected faces.
🕒 Shot Date	Displays the images shot on a specific date.
★ Favorites	Displays images tagged as favorites (□71).
🎞 Still image/Movie	Displays only still images or movies.

1 Choose a search condition.

- Press the [FUNC SET] button, choose [🔍] in the menu, and choose a condition (□25).
- When you have selected [🕒] or [🎞], choose the condition by pressing the [▲][▼][◀][▶] buttons on the screen displayed, and then press the [FUNC SET] button.

2 View the filtered images.

- Images matching your conditions are displayed in yellow frames. To view only these images, press the [◀][▶] buttons.
- To cancel filtered display, choose [🔍×] in step 1.

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

- To show or hide information, press the [▼] button in step 2.
- Options for viewing the images found (in step 2) include “Navigating through Images in an Index” (□62), “Magnifying Images” (□64), and “Viewing Slideshows” (□64). You can also apply image operations to all images found, by choosing [Protect All Images in Search] in “Protecting Images” (□66) or [Select All Images in Search] in “Erasing Multiple Images at Once” (□68), “Adding Images to the Print List (DPOF)” (□119), or “Adding Images to a Photobook” (□121).
- If you edit images and save them as new images (□72 – □75), a message is displayed, and the images that were found are no longer shown.

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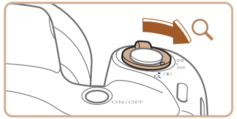
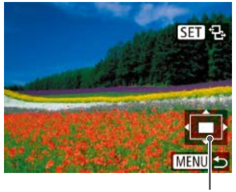
Image Viewing Options

Magnifying Images

▶ Still Images ▶ Movies





1 Magnify an image.

- Moving the zoom lever toward [🔍] will zoom in and magnify the image, and [SET ⧉] is displayed. You can magnify images up to about 10x by continuing to hold the zoom lever.
- The approximate position of the displayed area (1) is shown for reference.
- To zoom out, move the zoom lever toward [▦]. You can return to single-image display by continuing to hold it.

2 Move the display position and switch images as needed.

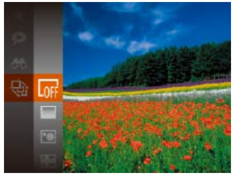
- To move the display position, press the [▲][▼][◀][▶] buttons.
- While [SET ⧉] is displayed, you can switch to [SET ⧉] by pressing the [FUNC SET] button. To switch to other images while zoomed, press the [◀][▶] buttons. Press the [FUNC SET] button again to restore the original setting.

- You can return to single-image display from magnified display by pressing the [MENU] button.

Viewing Slideshows

▶ Still Images ▶ Movies

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



- Press the [FUNC SET] button, choose [⧉] in the menu, and choose the desired option (📖25).
- The slideshow will start after [Loading image] is displayed for a few seconds.
- Press the [MENU] button to stop the slideshow.

- The camera’s power-saving functions (📖24) 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 filtered display (📖63), 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.

1 Access the setting screen.

- Press the [MENU] button, and then choose [Slideshow] on the [▶] tab (📖26).

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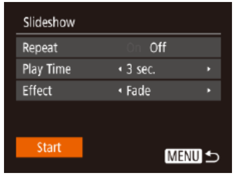

Slideshow
Repeat On Off
Play Time 3 sec.
Effect Fade

2 Configure the settings.

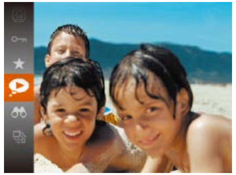
- Choose a menu item to configure, and then choose the desired option (📖26).
- To start the slideshow with your settings, choose [Start] and press the [FUNC/SET] button.
- To return to the menu screen, press the [MENU] button.

> (!) ● [Play Time] cannot be modified when [Bubble] is chosen in [Effect].

Auto Playback of Related Images (Smart Shuffle)

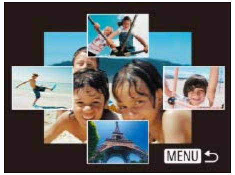
▶ **Still Images** ▶ Movies

Based on the current image, the camera offers four images 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.



1 Choose Smart Shuffle.

- Press the [FUNC/SET] button, and then choose [▶] in the menu (📖25).
- Four candidate images are displayed.



2 Choose an image.

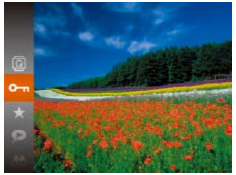
- Press the [▲][▼][◀][▶] buttons to choose the image you want to view next.
- Your chosen image is displayed in the center, surrounded by the next four candidate images.
- For full-screen display of the center image, press the [FUNC/SET] button. To restore the original display, press the [FUNC/SET] button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

> (!) ● 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
> - Images are shown in filtered display (📖63)

Protecting Images

▶ **Still Images** ▶ **Movies**

Protect important images to prevent accidental erasure (📖68).

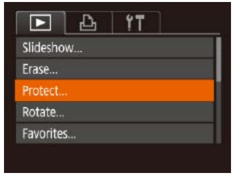


- Press the [FUNC SET] button, and then choose [🔑] in the menu (📖25). [Protected] is displayed.
- To cancel protection, repeat this process and choose [🔑] again, and then press the [FUNC SET] button.

- Protected images on a memory card will be erased if you format the card (📖106, 📖107).

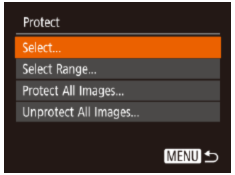
- Protected images cannot be erased using the camera's erasure function. To erase them this way, first cancel protection.

Using the Menu


▶
Slideshow...
Erase...
Protect...
Rotate...
Favorites...

1 **Access the setting screen.**

- Press the [MENU] button and choose [Protect] on the [▶] tab (📖26).


Protect
Select...
Select Range...
Protect All Images...
Unprotect All Images...
MENU ↩

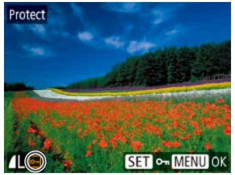
2 **Choose a selection method.**

- Choose a menu item and an option as desired (📖26).
- To return to the menu screen, press the [MENU] button.

Choosing Images Individually

1 **Choose [Select].**

- Following step 2 in "Using the Menu" (📖66), choose [Select] and press the [FUNC SET] button.


Protect
SET 🔑 MENU OK

2 **Choose an image.**

- Press the [◀][▶] buttons to choose an image, 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.

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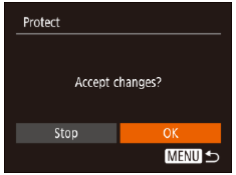

Protect
Accept changes?
Stop
OK
MENU

3 Protect the image.

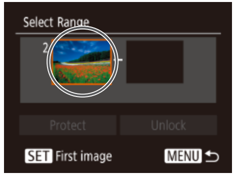
- Press the [MENU] button. A confirmation message is displayed.
- Press the [◀][▶] buttons to choose [OK], and then press the [FUNC SET] button.

- 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 in “Using the Menu” (📖66), choose [Select Range] and press the [FUNC SET] button.

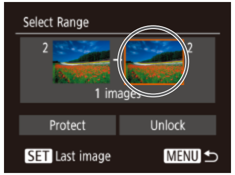

Select Range
2
Protect
Unlock
SET First image
MENU

2 Choose a starting image.

- Press the [FUNC SET] button.

First image
L
SET
MENU

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

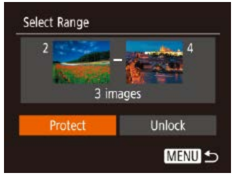

Select Range
2
2
1 images
Protect
Unlock
SET Last image
MENU

3 Choose an ending image.

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

Last image
L
SET
MENU

- 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.


Select Range
2
4
3 images
Protect
Unlock
MENU

4 Protect the images.

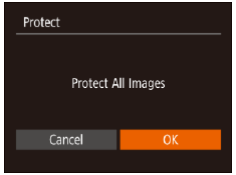
- Press the [▼] button to choose [Protect], and then press the [FUNC SET] button.

- To cancel protection for groups of images, choose [Unlock] in step 4.

Protecting All Images at Once

1 Choose [Protect All Images].

- Following step 2 in “Using the Menu” (📖66), choose [Protect All Images] and press the [FUNC SET] button.



2 Protect the images.

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

Clearing All Protection at Once

You can clear protection from all images at once.
To clear protection, choose [Unprotect All Images] in step 1 of “Protecting All Images at Once”, and then complete step 2.

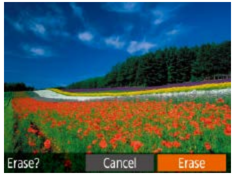
Erasing Images

▶ Still Images ▶ Movies

You can choose and erase unneeded images one by one. Be careful when erasing images, because they cannot be recovered. However, protected images (📖66) cannot be erased.

1 Choose an image to erase.

- Press the [◀][▶] buttons to choose an image.



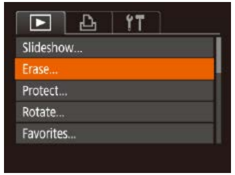
2 Erase the image.

- Press the [▲] button.
- 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 Multiple Images at Once

You can choose multiple images to erase at once. Be careful when erasing images, because they cannot be recovered. However, protected images (📖66) cannot be erased.

Choosing a Selection Method



1 Access the setting screen.

- Press the [MENU] button, and then choose [Erase] on the [▶] tab (📖26).

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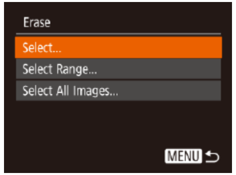


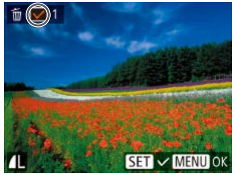
2 Choose a selection method.

- 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

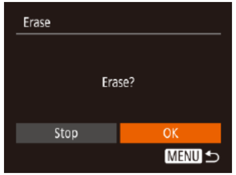
1 Choose [Select].

- Following step 2 in “Choosing a Selection Method” (📖68), choose [Select] and press the [FUNC SET] button.



2 Choose an image.

- Once you choose an image following step 2 in “Choosing Images Individually” (📖66), [✓] is displayed.
- To cancel selection, press the [FUNC SET] button again. [✓] is no longer displayed.
- Repeat this process to specify other images.



3 Erase the images.

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

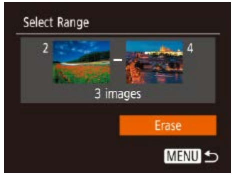
Selecting a Range

1 Choose [Select Range].

- Following step 2 in “Choosing a Selection Method” (📖68), choose [Select Range] and press the [FUNC SET] button.

2 Choose images.

- Follow steps 2 – 3 in “Selecting a Range” (📖67) to specify images.



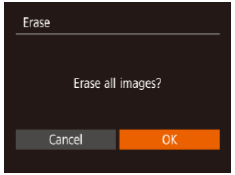
3 Erase the images.

- 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 in “Choosing a Selection Method” (📖68), choose [Select All Images] and press the [FUNC SET] button.



2 Erase the images.

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

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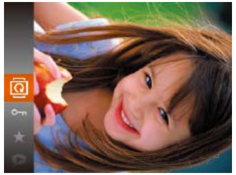
Rotating Images

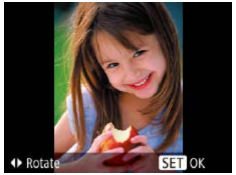
▶ **Still Images** ▷ Movies

Change the orientation of images and save them as follows.



1 Choose [⊡].

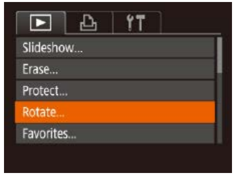
- Press the [FUNC. SET] button, and then choose [⊡] in the menu (📖25).


◀▶ Rotate
SET OK

2 Rotate the image.

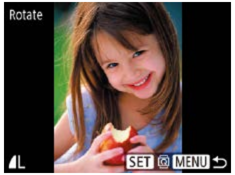
- Press the [◀] or [▶] button, depending on the desired direction. Each time you press the button, the image is rotated 90°. Press the [FUNC. SET] button to complete the setting.

Using the Menu


Slideshow...
Erase...
Protect...
Rotate...
Favorites...

1 Choose [Rotate].

- Press the [MENU] button and choose [Rotate] on the [▶] tab (📖26).


Rotate
SET ⊡ MENU ↩

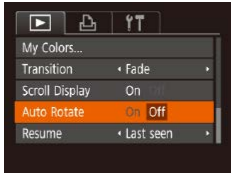
2 Rotate the image.

- 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.

> - Rotation is not possible when [Auto Rotate] is set to [Off] (📖70).

Deactivating Auto Rotation

Follow these steps to deactivate automatic image rotation, which rotates images based on the current camera orientation.


My Colors...
Transition ◂ Fade ▸
Scroll Display On Off
Auto Rotate On Off
Resume ◂ Last seen ▸

- Press the [MENU] button, choose [Auto Rotate] on the [▶] tab, and then choose [Off] (📖26).

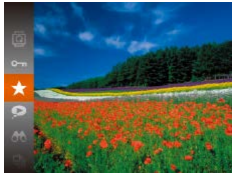
> - Images cannot be rotated (📖70) when you set [Auto Rotate] to [Off]. Additionally, images already rotated will be displayed in the original orientation.
> - In Smart Shuffle (📖65) mode, even if [Auto Rotate] is set to [Off], images shot vertically will be displayed vertically, and rotated images will be displayed in the rotated orientation.

Tagging Images as Favorites

▶ Still Images ▶ Movies

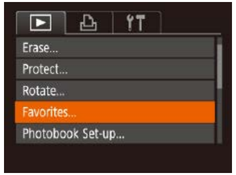
You can organize images by tagging them as favorites. By choosing a category in filtered playback, you can restrict the following operations to all of those images.

- "Viewing" (📖60), "Viewing Slideshows" (📖64), "Protecting Images" (📖66), "Erasing Images" (📖68), "Adding Images to the Print List (DPOF)" (📖119), "Adding Images to a Photobook" (📖121)



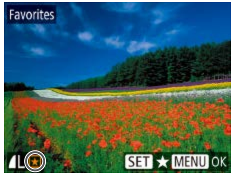
- Press the [FUNC SET] button, and then choose [★] in the menu (📖25).
- [Tagged as Favorite] is displayed.
- To untag the image, repeat this process and choose [★] again, and then press the [FUNC SET] button.

Using the Menu



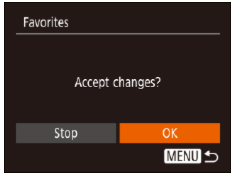
1 Choose [Favorites].

- Press the [MENU] button and choose [Favorites] on the [▶] tab (📖26).



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.



Favorites

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 tagged as favorites if you switch to Shooting mode or turn the camera off before finishing the setup process in step 3.

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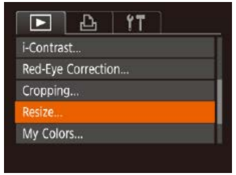
Editing Still Images

- Image editing (📖72 – 📖74) is only available when the memory card has sufficient free space.

Resizing Images

▶ **Still Images** ▷ Movies

Save a copy of images at a lower number of recording pixels.

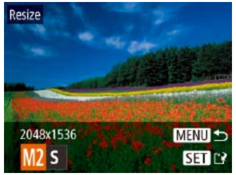

▶
i-Contrast...
Red-Eye Correction...
Cropping...
Resize...
My Colors...

1 Choose [Resize].

- Press the [MENU] button and choose [Resize] on the [▶] tab (📖26).

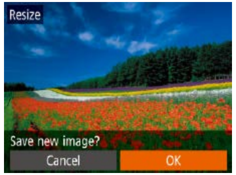
2 Choose an image.

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


Resize
2048x1536
M2 S
MENU ↩
SET

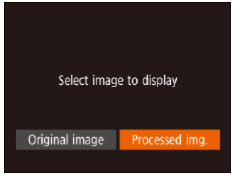
3 Choose an image size.

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


Resize
Save new image?
Cancel
OK

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.


Select image to display
Original image
Processed img.

5 Review the new image.

- Press the [MENU] button.
- Press the [◀][▶] buttons to choose [Processed img.], and then press the [FUNC SET] button.
- The saved image is now displayed.

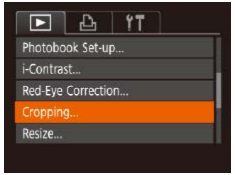
- Editing is not possible for images shot at a recording pixel setting of [S] (📖38).

- Images cannot be resized to a higher number of recording pixels.
- Choosing [Original image] in step 5 will display the original image.

Cropping

▶ **Still Images** ▷ Movies

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


▶
Photobook Set-up...
i-Contrast...
Red-Eye Correction...
Cropping...
Resize...

1 Choose [Cropping].

- Press the [MENU] button, and then choose [Cropping] on the [▶] tab (📖26).

2 Choose an image.

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

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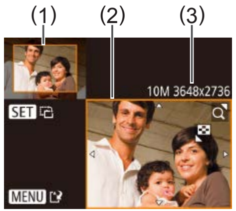
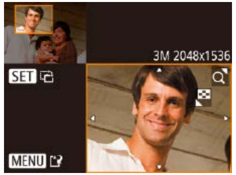




3 Adjust the cropping area.

- A frame is displayed around the portion of the image to be cropped (1).
- The original image is shown in the upper left, and a preview of the image as cropped (2) is shown in the lower right. You can also see the number of recording pixels after cropping (3).
- To resize the frame, move the zoom lever.
- 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 in “Resizing Images” (📖72).

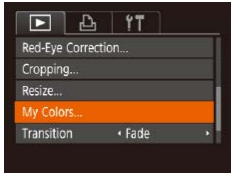
- Editing is not possible for images shot at a recording pixel setting of [S] (📖38) or resized to [S] (📖72).

- Images supported for cropping will have the same aspect ratio after cropping.
- Cropped images will have a lower number of recording pixels than uncropped images.

Changing Image Color Tones (My Colors)

▶ **Still Images** ▶ Movies

You can adjust image colors and then save the edited image as a separate file. For details on each option, see “Changing Image Color Tones (My Colors)” (📖52).

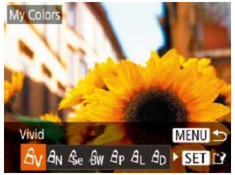


1 Choose [My Colors].

- Press the [MENU] button, and then choose [My Colors] on the [▶] tab (📖26).

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 in “Resizing Images” (📖72).

- 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 (📖52).

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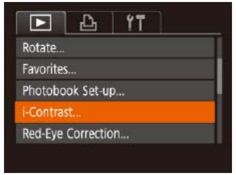
Correcting Image Brightness (i-Contrast)

▶ **Still Images** ▷ Movies

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.

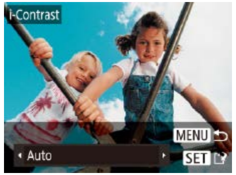


1 Choose [i-Contrast].

- Press the [MENU] button, and then choose [i-Contrast] on the [▶] tab (📖26).

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 in “Resizing Images” (📖72).

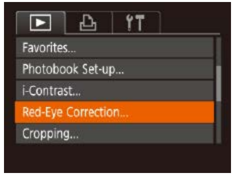
- For some images, correction may be inaccurate or may cause images to appear grainy.
- Images may look grainy after repeated editing using this function.

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

Correcting Red-Eye

▶ **Still Images** ▷ Movies

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



1 Choose [Red-Eye Correction].

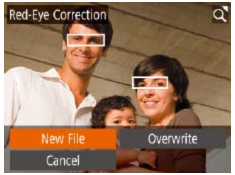
- Press the [MENU] button, and then choose [Red-Eye Correction] on the [▶] tab (📖26).

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” (📖64).



4 Save as a new image and review.

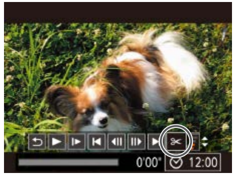
- Press the [▲][▼][◀][▶] buttons to choose [New File], and then press the [FUNC SET] button.
- The image is now saved as a new file.
- Follow step 5 in “Resizing Images” (📖72).

- 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

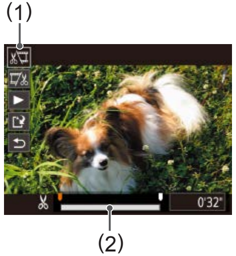
▷ Still Images ▶ **Movies**

You can remove unneeded portions from the beginning and end of movies.



1 Choose [✂].

- Following steps 1 – 5 in “Viewing” (📖60), choose [✂] and press the [FUNC SET] button.
- The movie editing panel and editing bar are now displayed.

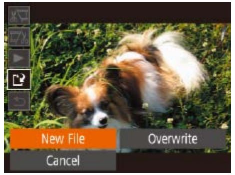


2 Specify portions to cut.

- (1) is the movie editing panel, and (2) is the editing bar.
- 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 [✂].
- If you move [▮] to a position other than a [✂] mark, in [✂] the portion before the nearest [✂] mark on the left will be cut, while in [✂] the portion after the nearest [✂] mark on the right will be cut.

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.
> - If the memory card lacks sufficient space, only [Overwrite] will be available.
> - Movies may not be saved if the battery pack runs out while saving is in progress.
> - When editing movies, you should use a fully charged battery pack.

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Wi-Fi Functions

Send images wirelessly from the camera to a variety of compatible devices, and use the camera with Web services

- Before using Wi-Fi, be sure to read “Precautions for Wireless Features (Wi-Fi or Others)” (📖144).

Available Wi-Fi Features

You can send and receive images and control the camera remotely by connecting it to these devices and services via Wi-Fi.

- Smartphones and Tablets
  Send images to smartphones and tablet computers that have Wi-Fi functions. Remote live view shooting is also possible from a smartphone or tablet, and you can geotag your shots remotely.
  For convenience in this guide, smartphones, tablets, and other compatible devices are collectively referred to as “smartphones”.
- Computer
  Use software to save camera images to a computer connected via Wi-Fi.
- Web Services
  Add your account information to the camera for CANON iMAGE GATEWAY online photography service or other Web services to send camera images to the services. Unsent images on the camera can also be sent to a computer or Web service via CANON iMAGE GATEWAY.
- Printers
  Send images wirelessly to a PictBridge-compatible printer (supporting DPS over IP) to print them.
- Another Camera
  Send images wirelessly between Wi-Fi-compatible Canon cameras.

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Sending Images to a Smartphone

There are several ways to connect the camera to a smartphone and send images.

- Connect via NFC (📖77)
  Simply touch an NFC-compatible Android smartphone against the camera to connect the devices.
- Connect via the Wi-Fi menu (📖80)
  You can connect the camera to a smartphone as you would connect it to a computer or other device. Multiple smartphones can be added.

Before connecting to the camera, you must install the free dedicated Camera Connect app on the smartphone. For details on this application (supported smartphones and included functions), refer to the Canon website.

- Canon Wi-Fi-compatible camera users who connect their camera to a smartphone via Wi-Fi should consider switching from the CameraWindow mobile app to the Camera Connect mobile app.

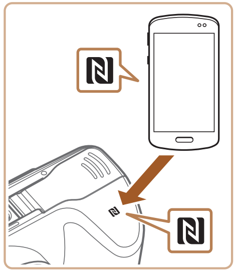
Sending Images to an NFC-Compatible Smartphone

Use an Android smartphone’s NFC to simplify the process of installing Camera Connect and connecting to the camera.
Operation when devices are initially connected via NFC varies depending on the camera mode when the devices are touched together.

- If the camera is off or in Shooting mode when the devices are touched together, you can choose and send images on the image selection screen. Once the devices are connected, remote live view shooting is also possible, and you can geotag your shots remotely (📖99).
  It’s easy to reconnect to recent devices, which are listed in the Wi-Fi menu.
- If the camera is in Playback mode when the devices are touched together, you can choose and send images from the index display shown for image selection.

Follow the instructions in the following section for NFC-initiated connection to a camera that is off or in Shooting mode.

Connecting via NFC When Camera Is Off or in Shooting Mode

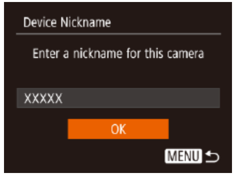


1 Install Camera Connect.

- Refer to the smartphone user manual to check where the N-Mark (N) is located.
- Activate NFC on the smartphone and touch the devices’ N-Marks (N) together to start Google Play on the smartphone automatically. Once the Camera Connect download page is displayed, download and install the app.

2 Establish the connection.

- Make sure the camera is off or in Shooting mode.
- Touch the N-Mark (N) on the smartphone with Camera Connect installed against the camera's N-Mark.
- The camera starts up automatically.

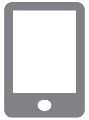


Device Nickname

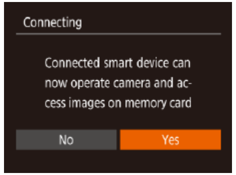
Enter a nickname for this camera

XXXXX

- If the [Device Nickname] screen is displayed, press the [▲][▼] buttons to choose [OK], and then press the [FUNC SET] button.



- Camera Connect is started on the smartphone.
- The devices are connected automatically.

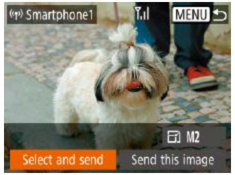


Connecting

Connected smart device can now operate camera and access images on memory card

3 Adjust the privacy setting.

- When this screen is displayed, press the [◀][▶] buttons to choose [Yes], and then press the [FUNC SET] button.
- You can now use the smartphone for remote live view shooting, or to browse, transfer, or geotag images on the camera.



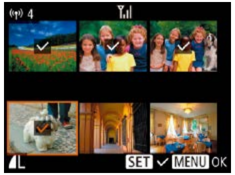
4 Send an image.

- Press the [▲][▼][◀][▶] buttons to choose [Select and send], and then press the [FUNC SET] button.
- Press the [▲][▼] buttons to choose [Select], and then press the [FUNC SET] button.
- Press the [▲][▼][◀][▶] buttons to choose an image to send, press the [FUNC SET] button to mark it as selected ([✓]), and then press the [MENU] button.
- Press the [◀][▶] buttons to choose [OK], and then press the [FUNC SET] button.
- Press the [▲][▼][◀][▶] buttons to choose [Send], and then press the [FUNC SET] button.
- [Transfer completed] is displayed after the image is sent, and the image transfer screen is displayed again.
- To end the connection, press the [MENU] button, press the [◀][▶] buttons on the confirmation screen to choose [OK], and then press the [FUNC SET] button. You can also use the smartphone to end the connection.

- When using NFC, keep the following points in mind.
  - Avoid strong impact between the camera and smartphone. This may damage the devices.
  - Depending on the smartphone, the devices may not recognize each other immediately. In this case, try holding the devices together in slightly different positions. If connection is not established, keep the devices together until the camera screen is updated.
  - If you attempt connection when the camera is off, a message may be displayed on the smartphone reminding you to turn on the camera. If so, turn the camera on and touch the devices together again.
  - Do not place other objects between the camera and smartphone. Also, note that camera or smartphone covers or similar accessories may block communication.
- All images in the camera can be viewed from the connected smartphone when you choose [Yes] in step 3. To keep camera images private, so that they cannot be viewed from the smartphone, choose [No] in step 3.
- Once you have registered a smartphone, you can change privacy settings for it on the camera (📖101).

- Connections require that a memory card be in the camera.
- You can also change the camera nickname on the screen in step 2 (📖78).
- You can also send multiple images at once and change the image size before sending (📖94).
- You can send the current image by choosing [Send this image] on the screen in step 4.
- To disable NFC connections, choose MENU (📖26) > [🔧] tab > [Wireless settings] > [Wi-Fi Settings] > [NFC] > [Off].

Connecting via NFC When Camera Is in Playback Mode



- Press the [▶] button to turn the camera on.
- Touch the smartphone with Camera Connect installed (📖77) against the camera's N-Mark (N).
- Press the [▲][▼][◀][▶] buttons to choose an image to send, 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.
- After you finish choosing images, press the [MENU] button.
- Press the [◀][▶] buttons to choose [OK], and then press the [FUNC SET] button.
- Press the [▲][▼][◀][▶] buttons to choose [Send], and then press the [FUNC SET] button.
- The images are now sent.

- If during connection a message on the camera requests you to enter the nickname, follow step 2 in "Sending Images to an NFC-Compatible Smartphone" (📖77) to enter it.
- The camera does not keep a record of smartphones you connect to via NFC in Playback mode.
- You can preset images to transfer at your desired size (📖94).

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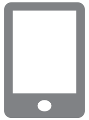
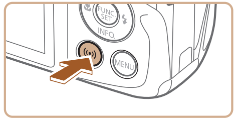
Adding a Smartphone

These steps show how to use the camera as an access point, but you can also use an existing access point (📖82).



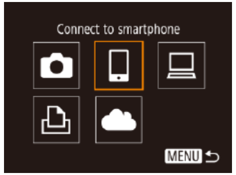
1 Install Camera Connect.

- For Android smartphones, find Camera Connect in Google Play and download and install the app.
- For an iPhone or iPad, find Camera Connect in the App Store and download and install the app.



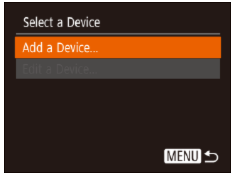
2 Access the Wi-Fi menu.

- Press the [((•))] button.
- If the [Device Nickname] screen is displayed, choose [OK] (📖78).



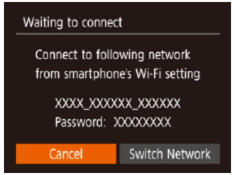
3 Choose [📱].

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



4 Choose [Add a Device].

- Press the [▲][▼] buttons to choose [Add a Device], and then press the [FUNC SET] button.

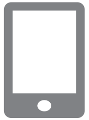


Waiting to connect

Connect to following network
from smartphone's Wi-Fi setting

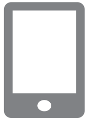
XXXX_XXXXXX_XXXXXX
Password: XXXXXXXX

- The camera SSID and password are displayed.



5 Connect the smartphone to the network.

- In the smartphone's Wi-Fi setting menu, choose the SSID (network name) displayed on the camera to establish a connection.
- In the password field, enter the password displayed on the camera.



6 Start Camera Connect.

- Start Camera Connect on the smartphone.

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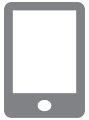
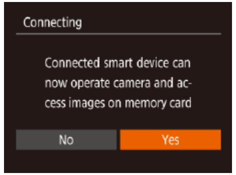
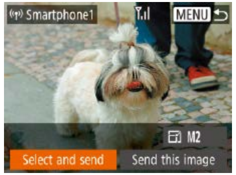




Connecting

Connected smart device can now operate camera and access images on memory card

No Yes



7 Select the camera to connect to.

- On the camera selection screen displayed on the smartphone, choose the camera to begin pairing.

8 Adjust the privacy setting.

- Press the [◀][▶] buttons to choose [Yes], and then press the [FUNC SET] button.
- You can now use the smartphone for remote live view shooting, or to browse, transfer, or geotag images on the camera.

9 Send an image.

- Press the [▲][▼][◀][▶] buttons to choose [Select and send], and then press the [FUNC SET] button.
- Press the [▲][▼] buttons to choose [Select], and then press the [FUNC SET] button.
- Press the [▲][▼][◀][▶] buttons to choose an image to send, press the [FUNC SET] button to mark it as selected ([✓]), and then press the [MENU] button.
- Press the [◀][▶] buttons to choose [OK], and then press the [FUNC SET] button.
- Press the [▲][▼][◀][▶] buttons to choose [Send], and then press the [FUNC SET] button.
- [Transfer completed] is displayed after the image is sent, and the image transfer screen is displayed again.
- To end the connection, press the [MENU] button, press the [◀][▶] buttons on the confirmation screen to choose [OK], and then press the [FUNC SET] button. You can also use the smartphone to end the connection.

- To add multiple smartphones, repeat the above procedure starting from step 1.

!

- All images in the camera can be viewed from the connected smartphone when you choose [Yes] in step 8. To keep camera images private, so that they cannot be viewed from the smartphone, choose [No] in step 8.
- Once you have registered a smartphone, you can change privacy settings for it on the camera (📖101).

- Connections require that a memory card be in the camera.
- Once you have connected to devices via the Wi-Fi menu, recent destinations will be listed first when you access the Wi-Fi menu. You can easily connect again by pressing the [▲][▼] buttons to choose the device and then pressing the [FUNC SET] button. To add a new device, display the device selection screen by pressing the [◀][▶] buttons, and then configure the setting.
- If you prefer not to display recent target devices, choose MENU (📖26) > [🔧] tab > [Wireless settings] > [Wi-Fi Settings] > [Target History] > [Off].
- You can also access the screen in step 3 by choosing MENU (📖26) > [🔧] tab > [Wi-Fi connect'n].
- To connect without entering a password in step 5, choose MENU (📖26) > [🔧] tab > [Wireless settings] > [Wi-Fi Settings] > [Password] > [Off]. [Password] is no longer displayed on the SSID screen (in step 4).
- You can also send multiple images at once and change the image size before sending (📖94).
- You can send the current image by choosing [Send this image] on the screen in step 9.

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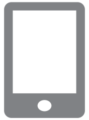
Using Another Access Point

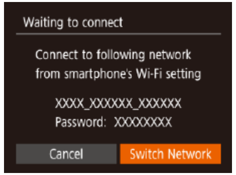
When connecting the camera to a smartphone through the Wi-Fi menu, you can also use an existing access point.

1 Prepare for the connection.

- Access the [Waiting to connect] screen by following steps 1 – 4 in “Adding a Smartphone” (📖80).



2 Connect the smartphone to the access point.



Waiting to connect

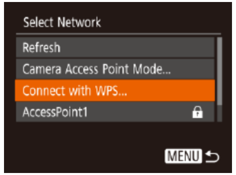
Connect to following network from smartphone's Wi-Fi setting

XXXX_XXXXXX_XXXXXX

Password: XXXXXXXX

3 Choose [Switch Network].

- Press the [◀][▶] buttons to choose [Switch Network], and then press the [FUNC SET] button.
- A list of detected access points will be displayed.



4 Connect to an access point.

- For WPS-compatible access points, connect to the access point as described in steps 5 – 8 in “Using WPS-Compatible Access Points” (📖85).
- For non-WPS access points, follow steps 2 – 4 in “Connecting to Listed Access Points” (📖87) to connect to the access point.

5 Select the camera to connect to.

- On the camera selection screen displayed on the smartphone, choose the camera to begin pairing.

6 Configure the privacy settings and send images.

- Follow steps 8 – 9 in “Adding a Smartphone” (📖80) to configure the privacy settings and send images.

Previous Access Points

You can reconnect to any previous access points automatically by following step 4 in “Adding a Smartphone” (📖80).

- To use the camera as an access point, choose [Switch Network] on the screen displayed when you establish a connection, and then choose [Camera Access Point Mode].
- To switch access points, choose [Switch Network] on the screen displayed when you establish a connection, and then follow the procedure in “Using Another Access Point” (📖82) from step 4.

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Saving Images to a Computer

Preparing to Register a Computer

For details on computers that you can connect the camera to via Wi-Fi, system requirements, and other compatibility information (including support in new operating systems), visit the Canon website.

> - Windows 7 Starter and Home Basic editions are not supported.
> - Windows 7 N (European version) and KN (South Korean version) require a separate download and installation of Windows Media Feature Pack.
>   For details, check the following website.
>   http://go.microsoft.com/fwlink/?LinkId=159730

Installing CameraWindow

1 Download the software.

- Visit the following site from a computer connected to the Internet.

http://www.canon.com/icpd/

- Choose your country or region, and then follow the instructions displayed to prepare for downloading.

2 Follow the instructions displayed.

- Double-click the downloaded file to install it.

> - Internet access is required, and any ISP account charges and access fees must be paid separately.

> - To uninstall the software, follow these steps.
>   - Windows: Select [Start] menu > [All Programs] > [Canon Utilities], and then choose the software for uninstallation.

Configuring the Computer for a Wi-Fi Connection (Windows Only)

On a computer running Windows, configure the following settings before connecting the camera to the computer wirelessly.

1 Confirm that the computer is connected to an access point.

- For instructions on checking your network connection, refer to the computer user manual.

2 Configure the setting.

- Click in the following order: [Start] menu > [All Programs] > [Canon Utilities] > [CameraWindow] > [Wi-Fi connection setup].
- In the application that opens, follow the on-screen instructions and configure the setting.

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- The following Windows settings are configured when you run the utility in step 2.
  - Turn on media streaming.
    This will enable the camera to see (find) the computer to access via Wi-Fi.
  - Turn on network discovery.
    This will enable the computer to see (find) the camera.
  - Turn on ICMP (Internet Control Message Protocol).
    This allows you to check the network connection status.
  - Enable Universal Plug & Play (UPnP).
    This will enable network devices to detect each other automatically.
- Some security software may prevent you from completing the settings as described here. Check the settings of your security software.

Saving Images to a Connected Computer

Connect to your access point via Wi-Fi as follows.
Also refer to the access point user manual.

Confirming Access Point Compatibility

Confirm that the Wi-Fi router or base station conforms to the Wi-Fi standards in “Interface” (📖140).
Connection methods vary depending on whether the access point supports Wi-Fi Protected Setup (WPS, 📖85) or not (📖87). For non-WPS access points, check the following information.

- Network name (SSID/ESSID)
  The SSID or ESSID for the access point you use. Also called the “access point name” or “network name”.
- Network authentication / data encryption (encryption method / encryption mode)
  The method for encrypting data during wireless transmission. Check which security setting is used: WPA2-PSK (AES), WPA2-PSK (TKIP), WPA-PSK (AES), WPA-PSK (TKIP), WEP (open system authentication), or no security.
- Password (encryption key / network key)
  The key used when encrypting data during wireless transmission. Also called the “encryption key” or “network key”.
- Key index (transmit key)
  The key set when WEP is used for network authentication / data encryption. Use “1” as the setting.

- If system administrator status is needed to adjust network settings, contact the system administrator for details.
- These settings are very important for network security. Exercise adequate caution when changing these settings.

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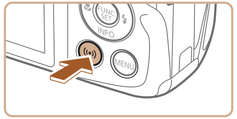
- For information on WPS compatibility and for instructions on checking settings, refer to the access point user manual.
- A router is a device that creates a network (LAN) structure for connecting multiple computers. A router that contains an internal Wi-Fi function is called a “Wi-Fi router”.
- This guide refers to all Wi-Fi routers and base stations as “access points”.
- If you use MAC address filtering on your Wi-Fi network, be sure to add the camera’s MAC address to your access point. You can check your camera’s MAC address by choosing MENU (📖26) > [🔧] tab > [Wireless settings] > [Wi-Fi Settings] > [Check MAC Address].

Using WPS-Compatible Access Points

WPS makes it easy to complete settings when connecting devices over Wi-Fi. You can use either Push Button Configuration Method or PIN Method for settings on a WPS supported device.

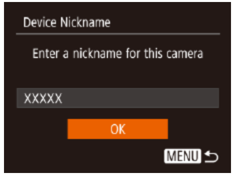
1 Confirm that the computer is connected to an access point.

- For instructions on checking the connection, refer to the device and access point user manuals.


FUNC SET
INFO
MENU

2 Access the Wi-Fi menu.

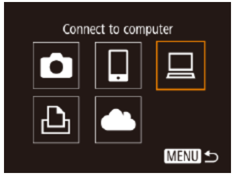
- Press the [((•))] button.


Device Nickname
OK
MENU ↩

Enter a nickname for this camera

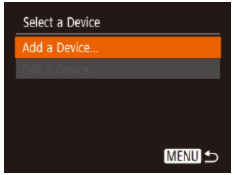
XXXXX

- If the [Device Nickname] screen is displayed, press the [▲][▼] buttons to choose [OK], and then press the [FUNC SET] button.


Connect to computer
MENU ↩

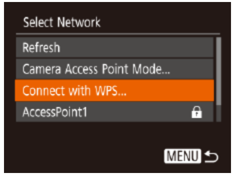
3 Choose [💻].

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


Select a Device
Add a Device...
Edit a Device...
MENU ↩

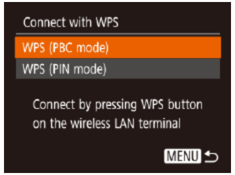
4 Choose [Add a Device].

- Press the [▲][▼] buttons to choose [Add a Device], and then press the [FUNC SET] button.


Select Network
Refresh
Camera Access Point Mode...
Connect with WPS...
AccessPoint1
MENU ↩

5 Choose [Connect with WPS].

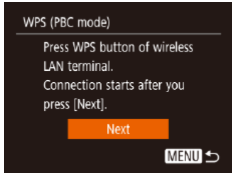
- Press the [▲][▼] buttons to choose [Connect with WPS], and then press the [FUNC SET] button.


Connect with WPS
WPS (PBC mode)
WPS (PIN mode)
MENU ↩

Connect by pressing WPS button on the wireless LAN terminal

6 Choose [WPS (PBC mode)].

- Press the [▲][▼] buttons to choose [WPS (PBC mode)], and then press the [FUNC SET] button.

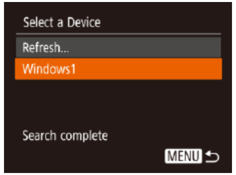


WPS (PBC mode)

Press WPS button of wireless LAN terminal. Connection starts after you press [Next].

7 Establish the connection.

- On the access point, hold down the WPS connection button for a few seconds.
- On the camera, press the [FUNC/SET] button to go to the next step.
- The camera connects to the access point and lists devices connected to it on the [Select a Device] screen.



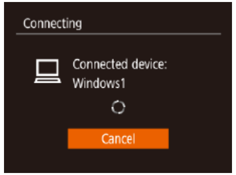
Select a Device

Refresh...
Windows1
MENU ⮌

Search complete

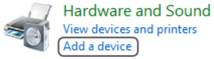
8 Choose the target device.

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



Connecting

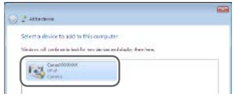
Connected device: Windows1



Hardware and Sound
View devices and printers
Add a device

9 Install a driver (first Windows connection only).

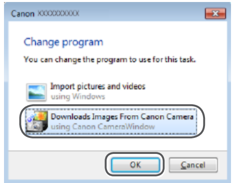
- When this screen is displayed on the camera, click the Start menu on the computer, click [Control Panel], and then click [Add a device].



Add a device

Select a device to add to this computer

- Double-click the connected camera icon.
- Driver installation will begin.
- After driver installation is complete, and the camera and computer connection is enabled, the AutoPlay screen will be displayed. Nothing will be displayed on the camera screen.



Canon XXXXXXXXX

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
OK
Cancel

10 Display CameraWindow.

- Windows: Access CameraWindow by clicking [Downloads Images From Canon Camera].

11 Import images.

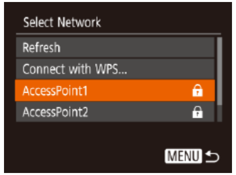
- Click [Import Images from Camera], and then click [Import Untransferred Images].
- Images are now saved to the Pictures folder on the computer, in separate folders named by date.
- Click [OK] in the screen that is displayed after image import is complete.
- To view images you save to a computer, use preinstalled or commonly available software compatible with images captured by the camera.

- Once you have connected to devices via the Wi-Fi menu, recent destinations will be listed first when you access the Wi-Fi menu. You can easily connect again by pressing the [▲][▼] buttons to choose the device and then pressing the [FUNC SET] button. To add a new device, display the device selection screen by pressing the [◀][▶] buttons, and then configure the setting.
- If you prefer not to display recent target devices, choose MENU (📖26) > [🔧] tab > [Wireless settings] > [Wi-Fi Settings] > [Target History] > [Off].
- You can also change the camera nickname on the screen in step 2 (📖85).
- When the camera is connected to a computer, the camera screen is blank.
- To disconnect from the camera, turn off the camera.
- If you chose [WPS (PIN mode)] in step 6, a PIN code will be displayed on the screen. Be sure to set this code in the access point. Choose a device in the [Select a Device] screen. For further details, refer to the user manual included with your access point.

Connecting to Listed Access Points

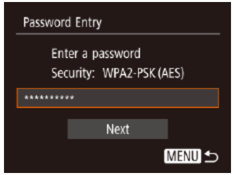
1 View the listed access points.

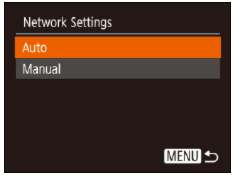
- View the listed networks (access points) as described in steps 1 – 4 of "Using WPS-Compatible Access Points" (📖85).



2 Choose an access point.

- Press the [▲][▼] buttons to choose a network (access point), and then press the [FUNC SET] button.





3 Enter the access point password.

- Press the [FUNC SET] button to access the keyboard, and then enter the password (📖27).
- Press the [▲][▼] buttons to choose [Next], and then press the [FUNC SET] button.

4 Choose [Auto].

- Press the [▲][▼] buttons to choose [Auto], and then press the [FUNC SET] button.
- To save images to a connected computer, follow the procedure from step 8 in "Using WPS-Compatible Access Points" (📖85).

- To determine the access point password, check on the access point itself or refer to the user manual.
- If no access points are detected even after you choose [Refresh] in step 2 to update the list, choose [Manual Settings] in step 2 to complete access point settings manually. Follow on-screen instructions and enter an SSID, security settings, and a password.
- When you use an access point that you have already connected to for connecting to another device, [*] is displayed for the password in step 3. To use the same password, press the [▲][▼] buttons to choose [Next], and then press the [FUNC SET] button.

Previous Access Points

You can reconnect to any previous access points automatically by following step 4 in “Using WPS-Compatible Access Points” (📖85).

- To connect to a device via an access point, confirm that the target device is already connected to the access point, and then follow the procedure from step 8 in “Using WPS-Compatible Access Points” (📖85).
- To switch access points, choose [Switch Network] on the screen displayed when you establish a connection, and then either follow the procedure in “Using WPS-Compatible Access Points” (📖85) from step 5 or the procedure in “Connecting to Listed Access Points” (📖87) from step 2.

Sending Images to a Registered Web Service

Registering Web Services

Use a smartphone or computer to add to the camera Web services that you want to use.

- A smartphone or computer with a browser and Internet connection is required to complete camera settings for CANON iMAGE GATEWAY and other Web services.
- Check the CANON iMAGE GATEWAY website for details on browser (Microsoft Internet Explorer, etc.) requirements, including settings and version information.
- For information on countries and regions where CANON iMAGE GATEWAY is available, visit the Canon website (http://www.canon.com/cig/).
- You must have an account with Web services other than CANON iMAGE GATEWAY if you desire to use them. For further details, check the websites for each Web service you want to register.
- Separate ISP connection and access point fees may be applicable.

- CANON iMAGE GATEWAY also provides user guides for downloading.

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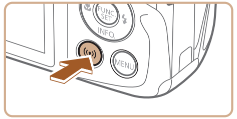
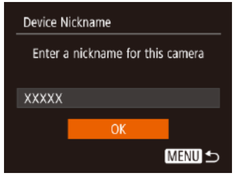
Registering CANON iMAGE GATEWAY

Link the camera and CANON iMAGE GATEWAY by adding CANON iMAGE GATEWAY as a destination Web service on the camera. Note that you will need to enter an email address used on your computer or smartphone to receive a notification message for completing linkage settings.

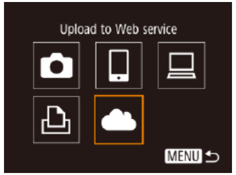


1 Access the Wi-Fi menu.

- Press the [((•))] button.

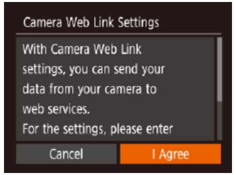

Device Nickname
Enter a nickname for this camera
XXXXX
OK
MENU ↩

- If the [Device Nickname] screen is displayed, press the [▲][▼] buttons to choose [OK], and then press the [FUNC SET] button.


Upload to Web service
MENU ↩

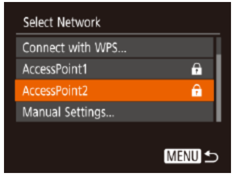
2 Choose [☁].

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


Camera Web Link Settings
With Camera Web Link settings, you can send your data from your camera to web services.
For the settings, please enter
Cancel
I Agree

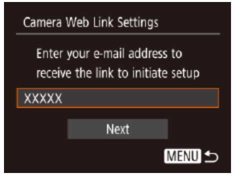
3 Accept the agreement to enter an email address.

- Read the agreement displayed, press the [◀][▶] buttons to choose [I Agree], and then press the [FUNC SET] button.


Select Network
Connect with WPS...
AccessPoint1 🔒
AccessPoint2 🔒
Manual Settings...
MENU ↩

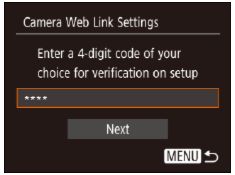
4 Establish a connection with an access point.

- Connect to the access point as described in steps 5 – 7 in “Using WPS-Compatible Access Points” (📖85) or in steps 2 – 4 in “Connecting to Listed Access Points” (📖87).


Camera Web Link Settings
Enter your e-mail address to receive the link to initiate setup
XXXXX
Next
MENU ↩

5 Enter your email address.

- Once the camera is connected to CANON iMAGE GATEWAY via the access point, a screen is displayed for entering an email address.
- Enter your email address, press the [▲][▼] buttons to choose [Next], and then press the [FUNC SET] button.


Camera Web Link Settings
Enter a 4-digit code of your choice for verification on setup
****
Next
MENU ↩

6 Enter a four-digit number.

- Enter a four-digit number of your choice, press the [▲][▼] buttons to choose [Next], and then press the [FUNC SET] button.
- You will need this four-digit number later when setting up linkage with CANON iMAGE GATEWAY in step 8.

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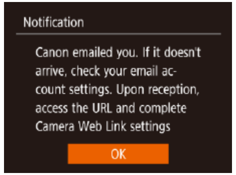
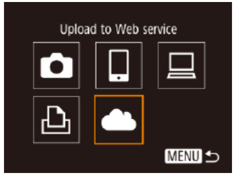
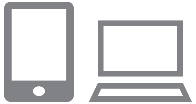

Notification

Canon emailed you. If it doesn't arrive, check your email account settings. Upon reception, access the URL and complete Camera Web Link settings



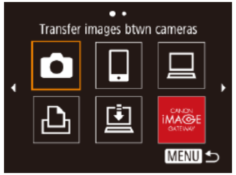
7 Check for the notification message.

- Once information has been sent to CANON iMAGE GATEWAY, you will receive a notification message at the email address entered in step 5.
- Press the [FUNC SET] button on the next screen, which indicates that notification has been sent.
- [☁] now changes to [☁].



8 Access the page in the notification message and complete camera link settings.

- From a computer or smartphone, access the page linked in the notification message.
- Follow the instructions to complete the settings on the camera link settings page.



9 Complete CANON iMAGE GATEWAY settings on the camera.

- Press the [▲][▼][◀][▶] buttons to choose [☁], and then press the [FUNC SET] button.
- [⎙] (🕮97) and CANON iMAGE GATEWAY are now added as destinations.
- You can add other Web services, as needed. In this case, follow the instructions from step 2 in “Registering Other Web Services” (🕮90).

- Make sure initially that your computer or smartphone mail application is not configured to block email from relevant domains, which may prevent you from receiving the notification message.

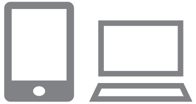
- You can also change the camera nickname on the screen in step 1 (🕮89).
- Once you have connected to devices via the Wi-Fi menu, recent destinations will be listed first when you access the menu. Press the [◀][▶] buttons to access the device selection screen and then configure the setting.

Registering Other Web Services

You can also add Web services besides CANON iMAGE GATEWAY to the camera.

1 Log in to CANON iMAGE GATEWAY and access the camera link settings page.

- From a computer or smartphone, access http://www.canon.com/cig/ to visit CANON iMAGE GATEWAY.



2 Configure the Web service you want to use.

- On the computer or smartphone, display the Web service settings screen.
- Follow the on-screen instructions to complete settings for Web services you want to use.

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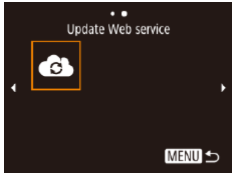
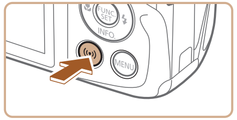


3 Choose [☁].

- Press the [((•))] button.
- Press the [▲][▼][◀][▶] buttons to choose [☁], and then press the [FUNC SET] button.
- The Web service settings are now updated.

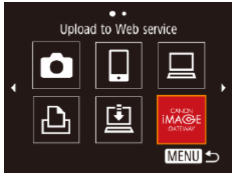
> - If any configured settings change, follow these steps again to update the camera settings.

Uploading Images to Web Services



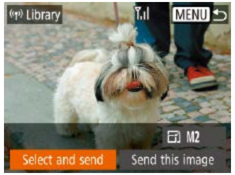
1 Access the Wi-Fi menu.

- Press the [((•))] button.



2 Choose the destination.

- Press the [▲][▼][◀][▶] buttons to choose the icon of the Web service to connect to, and then press the [FUNC SET] button.
- If multiple recipients or sharing options are used with a Web service, choose the desired item on the [Select Recipient] screen by pressing the [▲][▼] buttons, and then press the [FUNC SET] button.



3 Send an image.

- Press the [▲][▼][◀][▶] buttons to choose [Select and send], and then press the [FUNC SET] button.
- Press the [▲][▼] buttons to choose [Select], and then press the [FUNC SET] button.
- Press the [▲][▼][◀][▶] buttons to choose an image to send, press the [FUNC SET] button to mark it as selected ([✓]), and then press the [MENU] button.
- Press the [◀][▶] buttons to choose [OK], and then press the [FUNC SET] button.
- Press the [▲][▼][◀][▶] buttons to choose [Send], and then press the [FUNC SET] button.
- When uploading to YouTube, read the terms of service, choose [I Agree], and press the [FUNC SET] button.
- Press the [FUNC SET] button to return to the playback screen once [OK] is displayed after the image is sent.

> - Connections require that a memory card with saved images be in the camera.
> - You can also send multiple images at once, resize images, and add comments before sending (📖94).
> - You can send the current image by choosing [Send this image] on the screen in step 3.
> - To view images uploaded to CANON iMAGE GATEWAY on a smartphone, try the dedicated Canon Online Photo Album app. Download and install the Canon Online Photo Album app for iPhones or iPads from the App Store or for Android devices from Google Play.

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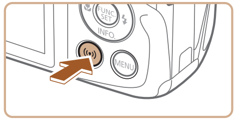
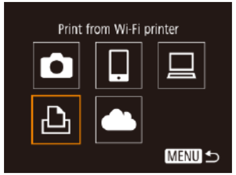
Printing Images Wirelessly from a Connected Printer

Connect the camera to a printer via Wi-Fi to print as follows.
These steps show how to use the camera as an access point, but you can also use an existing access point (📖82).


FUNC SET
INFO
MENU

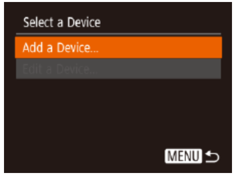
1 Access the Wi-Fi menu.

- Press the [((•))] button.


Print from Wi-Fi printer
MENU ⮌

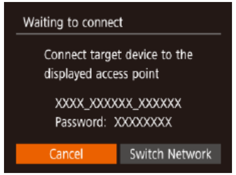
2 Choose [⎙].

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


Select a Device
Add a Device...
Edit a Device...
MENU ⮌

3 Choose [Add a Device].

- Press the [▲][▼] buttons to choose [Add a Device], and then press the [FUNC SET] button.



Waiting to connect

Connect target device to the displayed access point

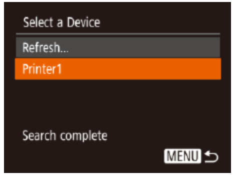
XXXX_XXXXXX_XXXXXX
Password: XXXXXXXX

Cancel
Switch Network

- The camera SSID and password are displayed.

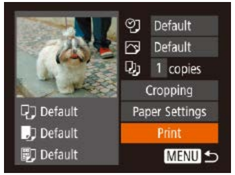
4 Connect the printer to the network.

- In the printer's Wi-Fi setting menu, choose the SSID (network name) displayed on the camera to establish a connection.
- In the password field, enter the password displayed on the camera.


Select a Device
Refresh...
Printer1
Search complete
MENU ⮌

5 Choose the printer.

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


Default
Default
1 copies
Cropping
Paper Settings
Print
Default
Default
Default
MENU ⮌

6 Choose an image to print.

- Press the [◀][▶] buttons to choose an image.
- Press the [FUNC SET] button, choose [⎙], and press the [FUNC SET] button again.
- Press the [▲][▼] buttons to choose [Print], and then press the [FUNC SET] button.
- For detailed printing instructions, see "Printing Images" (📖116).
- To end the connection, press the [▲] button, press the [◀][▶] buttons on the confirmation screen to choose [OK], and then press the [FUNC SET] button.

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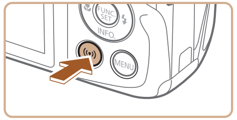
- Connections require that a memory card with saved images be in the camera.
- Once you have connected to devices via the Wi-Fi menu, recent destinations will be listed first when you access the Wi-Fi menu. You can easily connect again by pressing the [▲][▼] buttons to choose the device and then pressing the [FUNC SET] button. To add a new device, display the device selection screen by pressing the [◀][▶] buttons, and then configure the setting.
- If you prefer not to display recent target devices, choose MENU (📖26) > [🔧] tab > [Wireless settings] > [Wi-Fi Settings] > [Target History] > [Off].
- To connect without entering a password in step 4, choose MENU (📖26) > [🔧] tab > [Wireless settings] > [Wi-Fi Settings] > [Password] > [Off]. [Password] is no longer displayed on the SSID screen (in step 3).
- To use another access point, follow steps 3 – 4 in “Using Another Access Point” (📖82).

Sending Images to Another Camera

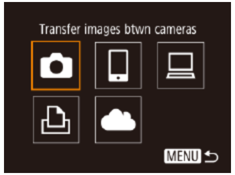
Connect two cameras via Wi-Fi and send images between them as follows.

- Only Wi-Fi compatible Canon cameras can be connected via Wi-Fi. You cannot connect to a Canon camera unless it is Wi-Fi compatible, even if it supports FlashAir/Eye-Fi cards.



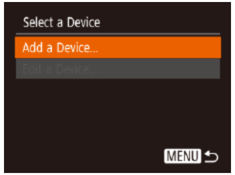
1 Access the Wi-Fi menu.

- Access the Wi-Fi menu as described in step 2 in “Adding a Smartphone” (📖80).



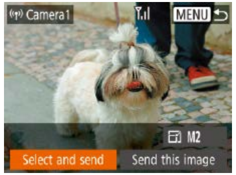
2 Choose [📷].

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



3 Choose [Add a Device].

- Press the [▲][▼] buttons to choose [Add a Device], and then press the [FUNC SET] button.
- Follow steps 1 – 3 on the target camera too.
- Camera connection information will be added when [Start connection on target camera] is displayed on both camera screens.



4 Send an image.

- Press the [▲][▼][◀][▶] buttons to choose [Select and send], and then press the [FUNC SET] button.
- Press the [▲][▼] buttons to choose [Select], and then press the [FUNC SET] button.
- Press the [▲][▼][◀][▶] buttons to choose an image to send, press the [FUNC SET] button to mark it as selected ([✓]), and then press the [MENU] button.
- Press the [◀][▶] buttons to choose [OK], and then press the [FUNC SET] button.
- Press the [▲][▼][◀][▶] buttons to choose [Send], and then press the [FUNC SET] button.
- [Transfer completed] is displayed after the image is sent, and the image transfer screen is displayed again.
- To end the connection, press the [MENU] button, press the [◀][▶] buttons on the confirmation screen to choose [OK], and then press the [FUNC SET] button.

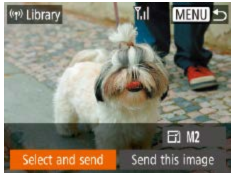
- Connections require that a memory card be in the camera.
- Once you have connected to devices via the Wi-Fi menu, recent destinations will be listed first when you access the Wi-Fi menu. You can easily connect again by pressing the [▲][▼] buttons to choose the device and then pressing the [FUNC SET] button. To add a new device, display the device selection screen by pressing the [◀][▶] buttons, and then configure the setting.
- If you prefer not to display recent target devices, choose MENU (📖26) > [🔧] tab > [Wireless settings] > [Wi-Fi Settings] > [Target History] > [Off].
- You can also send multiple images at once and change the image size before sending (📖94).
- You can send the current image by choosing [Send this image] on the screen in step 4.

Image Sending Options

You can choose multiple images to send at once and change the image recording pixel setting (size) before sending. Some Web services also enable you to annotate the images you send.

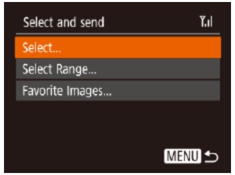
Sending Multiple Images

On the image transfer screen, specify a range of images to send, or send only images tagged as favorites.



1 Choose [Select and send].

- On the image transfer screen, press the [◀][▶] buttons to choose [Select and send], and then press the [FUNC SET] button.



2 Choose a selection method.

- Press the [▲][▼] buttons to choose a selection method.

Selecting a Range

1 Choose [Select Range].

- Following step 2 in “Sending Multiple Images” (📖94), choose [Select Range] and press the [FUNC SET] button.

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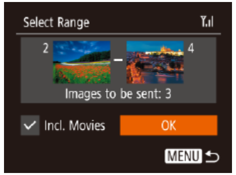

Images to be sent: 3

☑ Incl. Movies

2 **Choose images.**

- Follow steps 2 – 3 in “Selecting a Range” (📖67) to specify images.
- To include movies, press the [▲][▼][◀][▶] buttons to choose [Incl. Movies], and then press the [FUNC/SET] button to mark the option as selected [✓].
- Press the [▲][▼][◀][▶] buttons to choose [OK], and then press the [FUNC/SET] button.

3 **Send the images.**

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

Sending Favorite Images

Send only images tagged as favorites (📖71).

1 **Choose [Favorite Images].**

- Following step 2 in “Sending Multiple Images” (📖94), choose [Favorite Images] and press the [FUNC/SET] button.
- An image selection screen for favorites is displayed. If you prefer not to include an image, choose the image and press the [FUNC/SET] button to remove [✓].
- Press the [MENU] button.
- Press the [◀][▶] buttons to choose [OK], and then press the [FUNC/SET] button.

2 **Send the images.**

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

- In step 1, [Favorite Images] is not available unless you have tagged images as favorites.

Notes on Sending Images

- Depending on the condition of the network you are using, it may take a long time to send movies. Be sure to keep an eye on the camera battery level.
- Web services may limit the number of images or length of movies you can send.
- When sending movies to smartphones, note that the supported image quality varies depending on the smartphone. For details, refer to the smartphone user manual.
- On the screen, wireless signal strength is indicated by the following icons.
  [Yııl] high, [Yıl] medium, [Yı] low, [Y] weak
- Sending images to Web services will take less time when resending images you have already sent that are still on the CANON iMAGE GATEWAY server.

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Choosing the Number of Recording Pixels (Image Size)

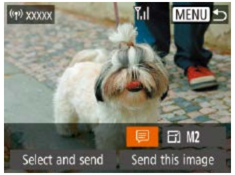
On the image transfer screen, choose [⧉] by pressing the [▲][▼] buttons, and then press the [FUNC SET] button. On the screen displayed, choose the recording pixel setting (image size) by pressing the [▲][▼] buttons, and then press the [FUNC SET] button.

- To send images at original size, select [No] as the resizing option.
- Choosing [M2] will resize images that are larger than the selected size before sending.
- Movies cannot be resized.

- Image size can also be configured in MENU (📖26) > [🔧] tab > [Wireless settings] > [Wi-Fi Settings] > [Resize for Sending].

Adding Comments

Using the camera, you can add comments to images that you send to e-mail addresses, social networking services, etc. The number of characters and symbols that can be entered may differ depending on the Web service.



1 **Access the screen for adding comments.**

- On the image transfer screen, choose [▤] by pressing the [▲][▼][◀][▶] buttons, and then press the [FUNC SET] button.

2 **Add a comment (📖27).**

3 **Send the image.**

- When a comment is not entered, the comment set in CANON iMAGE GATEWAY is automatically sent.
- You can also annotate multiple images before sending them. The same comment is added to all images sent together.

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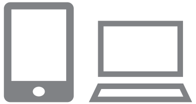
Sending Images Automatically (Image Sync)

Images on the memory card that have not been transferred already can be sent to a computer or Web services via CANON iMAGE GATEWAY. Note that images cannot be sent only to Web services.

Initial Preparations

Preparing the Camera

Register [📤] as the destination. On the destination computer, you will install and configure Image Transfer Utility, free software compatible with Image Sync.



1 **Add [📤] as a destination.**

- Add [📤] as a destination, as described in “Registering CANON iMAGE GATEWAY” (📖89).
- To include a Web service as the destination, log in to CANON iMAGE GATEWAY (📖89), select your camera model, access the Web service settings screen, and choose the destination Web service in Image Sync settings. For details, refer to CANON iMAGE GATEWAY Help.

2 **Choose the type of images to send (only when sending movies with images).**

- Press the [MENU] button, choose [Wireless settings] on the [🔧] tab, and then choose [Wi-Fi Settings] (📖26).
- Press the [▲][▼] buttons to choose [Image Sync], and then press the [◀][▶] buttons to choose [Stills/Movies].

Preparing the Computer

Install and configure the software on the destination computer.

1 **Install Image Transfer Utility.**

- Install Image Transfer Utility on a computer connected to the Internet by following steps 1 – 2 of “Installing CameraWindow” (📖83) (📖114).
- Image Transfer Utility can also be downloaded from the Image Sync settings page of CANON iMAGE GATEWAY (📖89).

2 **Register the camera.**

- Windows: In the taskbar, right-click [🖥], and then click [Add new camera].
- Mac OS: In the menu bar, click [🖥], and then click [Add new camera].
- A list of cameras linked to CANON iMAGE GATEWAY is displayed. Choose the camera from which images are to be sent.
- Once the camera is registered and the computer is ready to receive images, the icon changes to [🖥].

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Sending Images

Images sent from the camera are automatically saved to the computer.
If the computer that you intend to send images to is turned off, the images will be stored temporarily on the CANON iMAGE GATEWAY server. Stored images are regularly erased, so make sure to turn on the computer and save the images.

1 Send images.

- Follow steps 1 – 2 in “Uploading Images to Web Services” (📖91) and choose [🖥].
- Sent images are labeled with a [⇧] icon.

2 Save the images to the computer.

- Images are automatically saved to the computer when you turn it on.
- Images are automatically sent to Web services from the CANON iMAGE GATEWAY server, even if the computer is off.

- When sending images, you should use a fully charged battery pack.

- Even if images were imported to the computer through a different method, any images not sent to the computer via CANON iMAGE GATEWAY will be sent to the computer.
- Sending is faster when the destination is a computer on the same network as the camera, because images are sent via the access point instead of CANON iMAGE GATEWAY. Note that images stored on the computer are sent to CANON iMAGE GATEWAY, so the computer must be connected to the Internet.

Viewing Images Sent via Image Sync on a Smartphone

By installing the Canon Online Photo Album (Canon OPA) app, you can use your smartphone to view and download images sent via Image Sync while they are stored temporarily on the CANON iMAGE GATEWAY server.
In preparation, enable smartphone access as follows.

- Make sure you have completed the settings described in “Preparing the Computer” (📖97).
- Download and install the Canon Online Photo Album app for iPhones or iPads from the App Store or for Android devices from Google Play.
- Log in to CANON iMAGE GATEWAY (📖89), select your camera model, access the Web service settings screen, and enable viewing and downloading from a smartphone in the Image Sync settings. For details, refer to CANON iMAGE GATEWAY Help.

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- Once images stored temporarily on the CANON iMAGE GATEWAY server have been deleted, they can no longer be viewed.
- Images you sent before enabling smartphone viewing and downloading in Image Sync settings cannot be accessed this way.

- For Canon Online Photo Album instructions, refer to Canon Online Photo Album Help.

Using a Smartphone to View Camera Images and Control the Camera

You can do the following with the dedicated smartphone app Camera Connect.

- Browse images on the camera and save them to the smartphone
- Geotag images on the camera (📖99)
- Shoot using remote live view (📖100)

- Privacy settings must be configured in advance to allow image viewing on the smartphone (📖80, 📖101).

Geotagging Images on the Camera

GPS data recorded on a smartphone using the dedicated Camera Connect application can be added to images on the camera. Images are tagged with information including the latitude, longitude, and elevation.

- Before shooting, make sure the date and time and your home time zone are set correctly, as described in “Setting the Date and Time” (📖18). Also follow the steps in “World Clock” (📖104) to specify any shooting destinations in other time zones.
- 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 with others, as when posting images online where many others can view them.

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Remote Live View Shooting

As you check a shooting screen on your smartphone, you can use it to shoot remotely.

1 Secure the camera.

- Once remote live view shooting begins, the camera lens comes out. Lens motion from zooming may also move the camera out of position. Keep the camera still by mounting it on a tripod or taking other measures.

2 Connect the camera and smartphone (📖80).

- In the privacy settings, choose [Yes].

3 Choose remote live view shooting.

- In Camera Connect on the smartphone, choose remote live view shooting.
- The camera lens will come out. Keep your fingers away from the lens, and make sure no objects will obstruct it.
- Once the camera is ready for remote live view shooting, a live image from the camera is displayed on the smartphone.
- At this time, a message is displayed on the camera, and all operations except pressing the power button are disabled.

4 Shoot.

- Use the smartphone to shoot.

- The camera works in [P] mode during shooting. However, some FUNC. and MENU settings you have configured in advance may be changed automatically.
- Movie shooting is not available.

- Any rough subject motion shown on the smartphone due to the connection environment will not affect recorded images.
- Captured images are not transferred to the smartphone. Use the smartphone to browse and transfer images from the camera.

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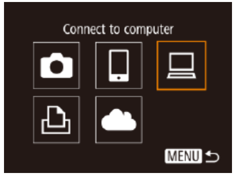
Editing or Erasing Wi-Fi Settings

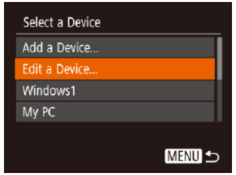
Edit or erase Wi-Fi settings as follows.

Editing Connection Information


Connect to computer
MENU ⮌

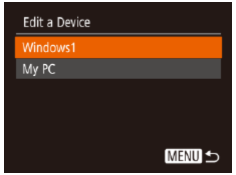
1 Access the Wi-Fi menu and choose a device to edit.

- Press the [((•))] button.
- Press the [▲][▼][◀][▶] buttons to choose the icon of the device to edit, and then press the [FUNC SET] button.


Select a Device
Add a Device...
Edit a Device...
Windows1
My PC
MENU ⮌

2 Choose [Edit a Device].

- Press the [▲][▼] buttons to choose [Edit a Device], and then press the [FUNC SET] button.


Edit a Device
Windows1
My PC
MENU ⮌

3 Choose the device to edit.

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

4 Choose the item to edit.

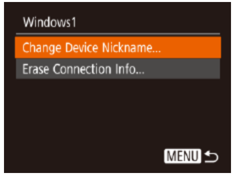
- Press the [▲][▼] buttons to choose the item to edit, and then press the [FUNC SET] button.
- The items you can change depend on the device or service.

Configurable Items	Connection				
	📷	📱	💻	🖨	Web Services
[Change Device Nickname] (📖101)	O	O	O	O	–
[View Settings] (📖80)	–	O	–	–	–
[Erase Connection Info] (📖101)	O	O	O	O	–

O : Configurable – : Not configurable

Changing a Device Nickname

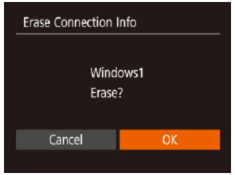
You can change the device nickname (display name) that is displayed on the camera.


Windows1
Change Device Nickname...
Erase Connection Info...
MENU ⮌

- Following step 4 in “Editing Connection Information” (📖101), choose [Change Device Nickname] and press the [FUNC SET] button.
- Select the input field and press the [FUNC SET] button. Use the keyboard displayed to enter a new nickname (📖27).

Erasing Connection Information

Erase connection information (information about devices that you have connected to) as follows.


Erase Connection Info
Windows1
Erase?
Cancel
OK

- Following step 4 in “Editing Connection Information” (📖101), choose [Erase Connection Info] and press the [FUNC SET] button.
- After [Erase?] is displayed, press the [◀][▶] buttons to choose [OK], and then press the [FUNC SET] button.
- The connection information will be erased.

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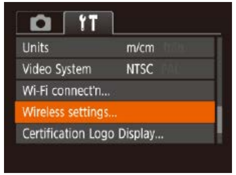
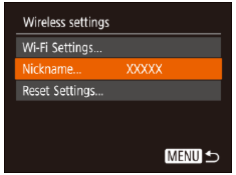
Changing the Camera Nickname

Change the camera nickname (displayed on connected devices) as desired.


Units m/cm
Video System NTSC
Wi-Fi connect'n...
Wireless settings...
Certification Logo Display...

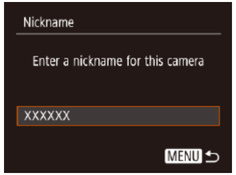
1 Choose [Wireless settings].

- Press the [MENU] button and choose [Wireless settings] on the [🔧] tab (📖26).


Wireless settings
Wi-Fi Settings...
Nickname... XXXXX
Reset Settings...
MENU ↩

2 Choose [Nickname].

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


Nickname
Enter a nickname for this camera
XXXXXX
MENU ↩

3 Change the nickname.

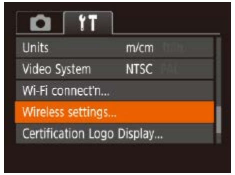
- Press the [FUNC. SET] button to access the keyboard (📖27), and then enter a nickname.

- A message is displayed if the nickname you enter begins with a symbol or space. Press the [FUNC. SET] button and enter a different nickname.
- You can also change the nickname from the [Device Nickname] screen displayed when you first use Wi-Fi. In this case, select the text box, press the [FUNC. SET] button to access the keyboard, and then enter a new nickname.

Returning the Wi-Fi Settings to Default

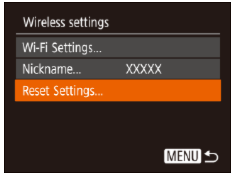
Return the Wi-Fi settings to default if you transfer ownership of the camera to another person, or dispose of it.

Resetting the Wi-Fi settings will also clear all Web service settings. Be sure that you want to reset all Wi-Fi settings before using this option.


Units m/cm
Video System NTSC
Wi-Fi connect'n...
Wireless settings...
Certification Logo Display...

1 Choose [Wireless settings].

- Press the [MENU] button and choose [Wireless settings] on the [🔧] tab (📖26).


Wireless settings
Wi-Fi Settings...
Nickname... XXXXX
Reset Settings...
MENU ↩

2 Choose [Reset Settings].

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

3 Restore the default settings.

- Press the [◀][▶] buttons to choose [OK], and then press the [FUNC. SET] button.
- The Wi-Fi settings are now reset.

- To reset other settings (aside from Wi-Fi) to defaults, choose [Reset All] on the [🔧] tab (📖109).

7

Setting Menu

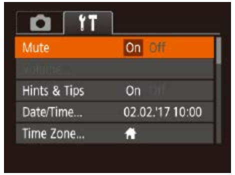
Customize or adjust basic camera functions for greater convenience

Adjusting Basic Camera Functions

Basic camera functions are configured on the [🔧] tab of the MENU (📖26). Customize commonly used functions as desired, for greater convenience.

Silencing Camera Operations

Silence camera sounds and movies as follows.



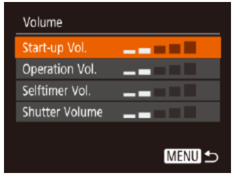
Mute On Off
Volume
Hints & Tips On Off
Date/Time... 02.02.'17 10:00
Time Zone... 🏠

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

- Operation can also be silenced by holding down the [MENU] button as you turn the camera on.
- Sound is not played during movies (📖60) if you mute camera sounds. 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.



Volume
Start-up Vol.
Operation Vol.
Selftimer Vol.
Shutter Volume
MENU ↩

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

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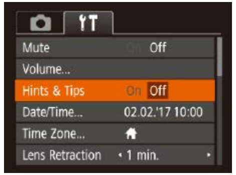
Hiding Hints and Tips

Hints and tips are normally shown when you choose FUNC. (📖25) or MENU (📖26) items. If you prefer, you can deactivate this information.

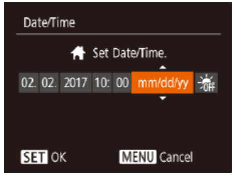


Mute On Off
Volume...
Hints & Tips On Off
Date/Time... 02.02.'17 10:00
Time Zone... 🏠
Lens Retraction ◂ 1 min. ▸

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

Date and Time

Adjust the date and time as follows.

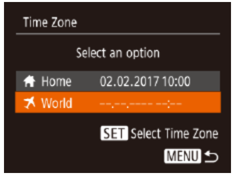


Date/Time
🏠 Set Date/Time.
02. 02. 2017 10: 00 mm/dd/yy ☀OFF
SET OK MENU Cancel

- Choose [Date/Time], and then press the [FUNC SET] button.
- Press the [◀][▶] buttons to choose an item, and then press the [▲][▼] buttons to adjust the setting.

World Clock

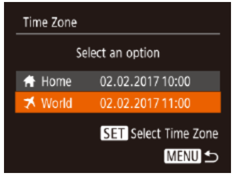
To ensure that your shots will have the correct local date and time when you travel abroad, simply register the destination in advance and switch to that time zone. This convenient feature eliminates the need to change the Date/Time setting manually.
Before using the world clock, be sure to set the date and time and your home time zone, as described in “Setting the Date and Time” (📖18).



Time Zone
Select an option
🏠 Home 02.02.2017 10:00
✈ World --.--.---- --:--
SET Select Time Zone
MENU ↩

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), choose [☀OFF] by pressing the [▲][▼] buttons, and then choose [☀] by pressing the [◀][▶] buttons.
- Press the [FUNC SET] button.



Time Zone
Select an option
🏠 Home 02.02.2017 10:00
✈ World 02.02.2017 11:00
SET Select Time Zone
MENU ↩

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 (📖129).

- Adjusting the date or time while in [✈] mode (📖18) will automatically update your [🏠 Home] time and date.

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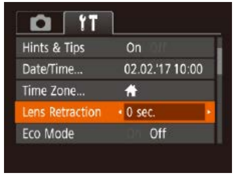
Lens Retraction Timing

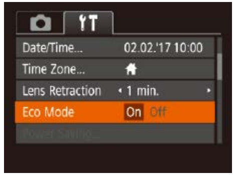
The lens is normally retracted for safety about one minute after you press the [▶] button in Shooting mode (🕮23). To have the lens retracted immediately after you press the [▶] button, set the retraction timing to [0 sec.].


Hints & Tips On Off
Date/Time... 02.02.'17 10:00
Time Zone... 🏠
Lens Retraction 0 sec.
Eco Mode On Off

- Choose [Lens Retraction], and then choose [0 sec.].

Using Eco Mode

This function allows you to conserve battery power in Shooting mode. When the camera is not in use, the screen quickly darkens to reduce battery consumption.


Date/Time... 02.02.'17 10:00
Time Zone... 🏠
Lens Retraction 1 min.
Eco Mode On Off
Power Saving...

1 Configure the setting.

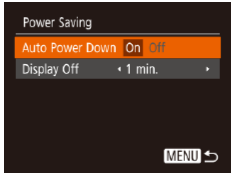
- Choose [Eco Mode], and then choose [On].
- [ECO] is now shown on the shooting screen (🕮129).
- The screen darkens when the camera is not used for approximately two seconds; approximately ten seconds after darkening, the screen turns off. The camera turns off after approximately three minutes of inactivity.

2 Shoot.

- To activate the screen and prepare for shooting when the screen is off but the lens is still out, press the shutter button halfway.

Power-Saving Adjustment

Adjust the timing of automatic camera and screen deactivation (Auto Power Down and Display Off, respectively) as needed (🕮24).


Power Saving
Auto Power Down On Off
Display Off 1 min.
MENU ↩

- Choose [Power Saving], and then press the [FUNC SET] button.
- 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].
- These power-saving functions are not available when you have set Eco mode (🕮105) to [On].

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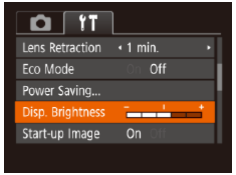
Screen Brightness

Adjust screen brightness as follows.



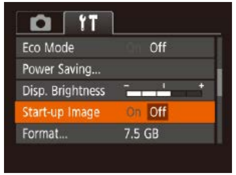
Lens Retraction ◂ 1 min. ▸
Eco Mode On Off
Power Saving...
Disp. Brightness
Start-up Image On Off

- Choose [Disp. 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 [Disp. 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.

Hiding the Start-Up Screen

If you prefer, you can deactivate display of the start-up screen normally shown when you turn the camera on.



Eco Mode On Off
Power Saving...
Disp. Brightness
Start-up Image On Off
Format... 7.5 GB

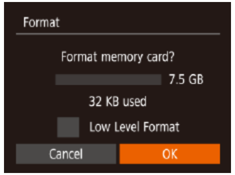
- Choose [Start-up Image], and then choose [Off].

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.

1 Access the [Format] screen.

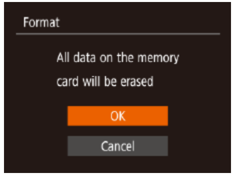
- Choose [Format], and then press the [FUNC SET] button.



Format
Format memory card?
7.5 GB
32 KB used
Low Level Format
Cancel
OK

2 Choose [OK].

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



Format
All data on the memory card will be erased
OK
Cancel

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.

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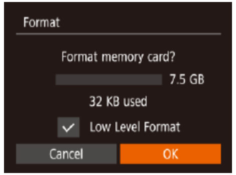
- The total card capacity indicated on the formatting screen may be less than the advertised capacity.

Low-Level Formatting

Perform low-level formatting in the following 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

Format memory card?

7.5 GB

32 KB used

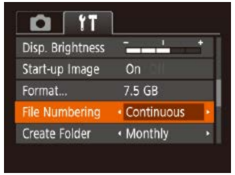
☑ Low Level Format

- On the screen in step 2 of “Formatting Memory Cards” (📖106), press the [▲][▼] buttons to choose [Low Level Format], and then press the [◀][▶] buttons to select this option. A [✓] icon is displayed.
- Follow steps 2 – 3 in “Formatting Memory Cards” (📖106) to continue with the formatting process.

- Low-level formatting takes longer than “Formatting Memory Cards” (📖106), 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.



Disp. Brightness

Start-up Image On

Format... 7.5 GB

File Numbering Continuous

Create Folder Monthly

- 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, 📖106) memory card.

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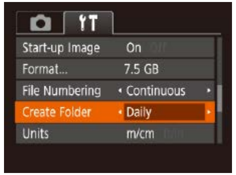
Date-Based Image Storage

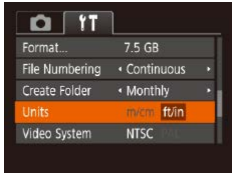
Instead of saving images in folders created each month, you can have the camera create folders each day you shoot to store shots taken that day.


Start-up Image On Off
Format... 7.5 GB
File Numbering Continuous
Create Folder Daily
Units m/cm ft/in

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

Metric / Non-Metric Display

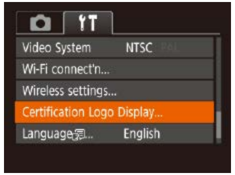
Change the unit of measurement shown in GPS elevation information (📖99) and elsewhere from m/cm to ft/in as needed.


Format... 7.5 GB
File Numbering Continuous
Create Folder Monthly
Units m/cm ft/in
Video System NTSC PAL

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

Checking Certification Logos

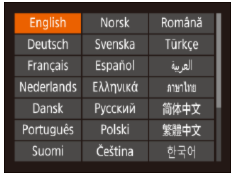
Some logos for certification requirements met by the camera can be viewed on the screen. Other certification logos are printed in this guide, on the camera packaging, or on the camera body.


Video System NTSC PAL
Wi-Fi connect'n...
Wireless settings...
Certification Logo Display...
Language... English

- Choose [Certification Logo Display], and then press the [FUNC SET] button.

Display Language

Change the display language as needed.


English
Norsk
Română
Deutsch
Svenska
Türkçe
Français
Español
العربية
Nederlands
Ελληνικά
ภาษาไทย
Dansk
Русский
简体中文
Português
Polski
繁體中文
Suomi
Čeština
한국어

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

- [Video System] (📖113)
- [Wireless settings] (📖76)

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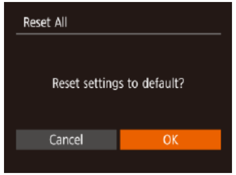
Restoring Default Camera Settings

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.
  - [🔧] tab settings [Date/Time] (📖104), [Time Zone] (📖104), [Language 🗨] (📖108), and [Video System] (📖113)
  - Custom white balance data you have recorded (📖52)
  - Shooting mode (📖43)

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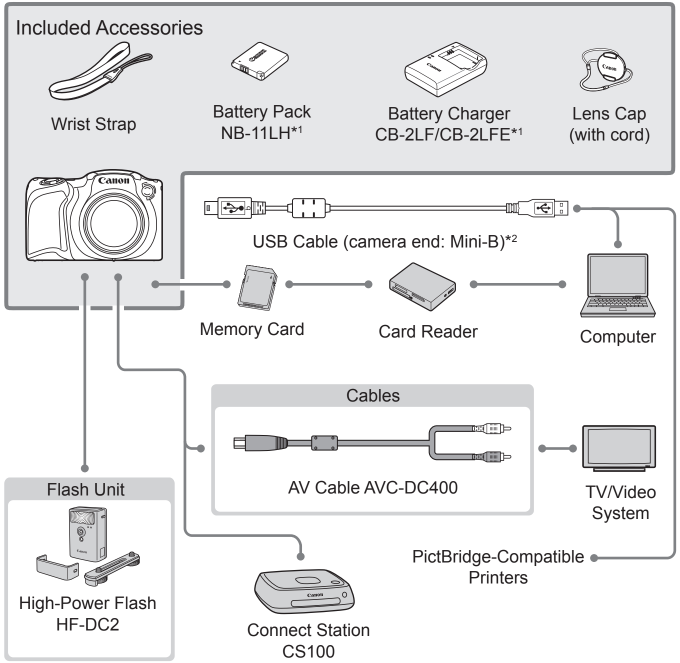
◀ ▶

8

Accessories

Enjoy the camera in more ways with optional Canon accessories and other compatible accessories sold separately

System Map


Included Accessories
Wrist Strap
Battery Pack
NB-11LH*1
Battery Charger
CB-2LF/CB-2LFE*1
Lens Cap
(with cord)
USB Cable (camera end: Mini-B)*2
Memory Card
Card Reader
Computer
Cables
AV Cable AVC-DC400
TV/Video
System
Flash Unit
High-Power Flash
HF-DC2
Connect Station
CS100
PictBridge-Compatible
Printers

*1 Also available for purchase separately.
*2 A genuine Canon accessory is also available (Interface Cable IFC-400PCU).

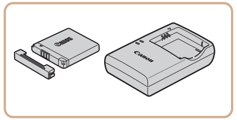
Use of genuine Canon accessories is recommended.

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 any repairs your Canon product may require as a result of such malfunction are not covered under warranty and will incur a fee.

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-11LH

- Rechargeable lithium-ion battery

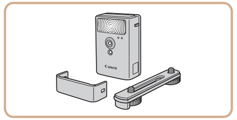
Battery Charger CB-2LF/CB-2LFE

- Charger for Battery Pack NB-11LH

- The battery 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 pack.

- The battery pack includes a convenient cover which you can attach to know the charge status at a glance. Attach the cover so that ▲ is visible on a charged battery pack, and attach it so that ▲ is not visible on an uncharged battery pack.
- Battery Pack NB-11L is also supported.
- Battery Charger CB-2LD and CD-2LDE are also supported.

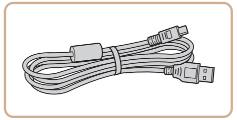
Flash Unit



High-Power Flash HF-DC2

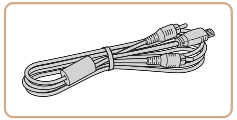
- External flash for illuminating subjects that are out of range of the built-in flash.

Other Accessories



Interface Cable IFC-400PCU

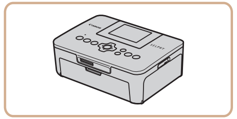
- For connecting the camera to a computer or printer.



AV Cable AVC-DC400

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

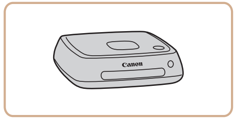
Printers



Canon-Brand PictBridge-Compatible Printers

- Even without using a computer, you can print images by connecting the camera directly to a printer.
  For details, visit your nearest Canon retailer.

Photo and Movie Storage



Connect Station CS100

- A media hub for storing camera images, viewing on a connected TV, printing wirelessly on a Wi-Fi-compatible printer, sharing over the Internet, and more.

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Using Optional Accessories

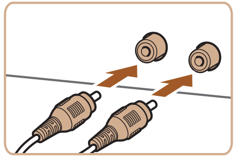
Playback on a TV

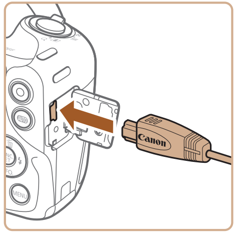
▶ **Still Images** ▶ **Movies**

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.
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 (📖130).

1 Make sure the camera and TV are off.



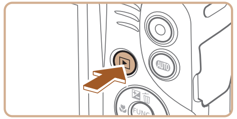


2 Connect the camera to the TV.

- On the TV, insert the cable plugs fully into the video inputs as shown.
- Make sure the cable plugs are in video inputs of the same color.
- 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 external 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.

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Using the Software

To utilize the features of the following software, download the software from the Canon website and install it on your computer.

- CameraWindow
  - Import images and change camera settings
- Image Transfer Utility
  - Set up Image Sync (📖97) and receive images
- Map Utility
  - Use a map to view GPS information that has been added to images

> - To view and edit images on a computer, use preinstalled or commonly available software compatible with images captured by the camera.

Computer Connections via a Cable

Checking Your Computer Environment

For detailed software system requirements and compatibility information (including support in new operating systems), visit the Canon website.

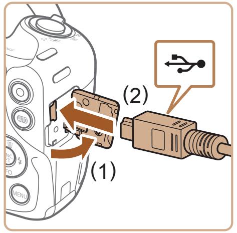
Installing the Software

Install the software as described in steps 1 – 2 of “Installing CameraWindow” (📖83).

> - To uninstall (remove) the software in Mac OS, in the [Canon Utilities] folder within the [Applications] folder, drag the folder of the software for uninstallation to the Trash, and then empty the Trash.

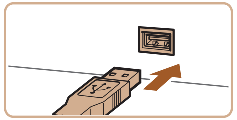
Saving Images to a Computer

Using a USB cable (sold separately; camera end: Mini-B), you can connect the camera to the computer and save images to the computer.

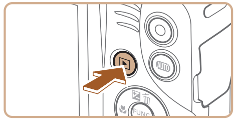


1 Connect the camera to the computer.

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



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



2 Turn the camera on to access CameraWindow.

- Press the [▶] button to turn the camera on.
- Mac OS: CameraWindow is displayed when a connection is established between the camera and computer.

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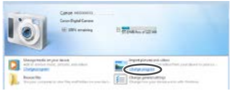
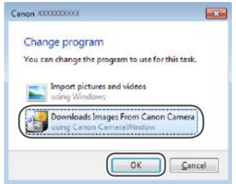


- Windows: Follow the steps introduced below.
- In the screen that is displayed, click the change program link of [ ].
- Choose [Downloads Images From Canon Camera] and then click [OK].



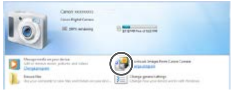
Canon XXXXXXXXXX

Change program

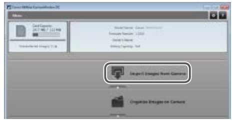
You can change the program to use for this task.

Import pictures and videos using Windows

Downloads Images From Canon Camera using Canon CameraWindow



- Double-click [ ].



3 Save the images to the computer.

- 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.
- To view images you save to a computer, use preinstalled or commonly available software compatible with images captured by the camera.

- Windows 7: If the screen in step 2 is not displayed, click the [ ] icon in the taskbar.
- Mac OS: If CameraWindow is not displayed after step 2, click the [CameraWindow] icon in the Dock.
- Although you can save images to a computer simply by connecting your camera to the computer without using the 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.

Printing Images

▶ Still Images ▶ Movies

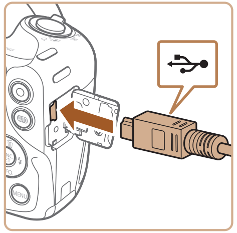
Your shots can easily be printed by connecting the camera to a printer. On the camera, you can specify images to set up batch printing, prepare orders for photo development services, and prepare orders or print images for photobooks.
A Canon SELPHY CP series compact photo printer is used here for the sake of illustration. Screens displayed and available functions vary by printer. Also refer to the printer manual for additional information.

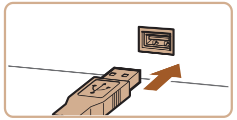
Easy Print

▶ Still Images ▶ Movies

Easily print your shots by connecting the camera to a PictBridge-compatible printer (sold separately) with the USB cable.

1 Make sure the camera and printer are off.

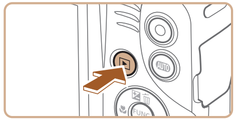




2 Connect the camera to the printer.

- Open the terminal 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.

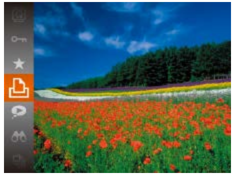


4 Turn the camera on.

- Press the [▶] button to turn the camera on.

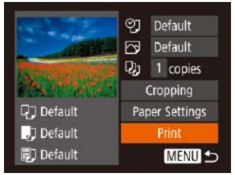
5 Choose an image.

- 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 the above procedures starting from step 5 after printing is finished.
- When you are finished printing, turn the camera and printer off and disconnect the cable.

- For Canon-brand PictBridge-compatible printers (sold separately), see “Printers” (📖112).

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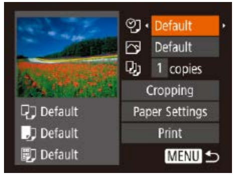
Configuring Print Settings

▶ **Still Images** ▶ Movies



1 Access the printing screen.

- Follow steps 1 – 6 in “Easy Print” (📖116) to access this screen.

2 Configure the settings.

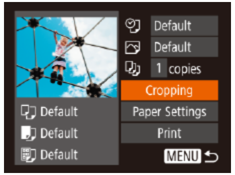
- Press the [▲][▼] buttons to choose an item, and then press the [◀][▶] buttons to choose an option.

	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.
Cropping	–	Specify a desired image area to print (📖117).
Paper Settings	–	Specify the paper size, layout, and other details (📖118).

Cropping Images before Printing

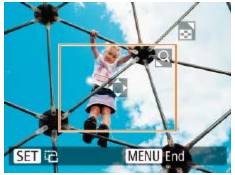
▶ **Still Images** ▶ Movies

By cropping images before printing, you can print a desired image area instead of the entire image.



1 Choose [Cropping].

- After following step 1 in “Configuring Print Settings” (📖117) to access the printing screen, choose [Cropping] 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, move the zoom lever.
- 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 in “Easy Print” (📖116) 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.

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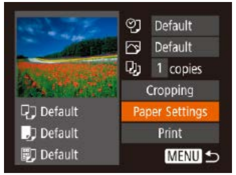
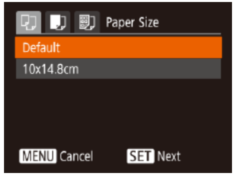
Choosing Paper Size and Layout before Printing

▶ Still Images ▷ Movies


Default
Default
1 copies
Cropping
Paper Settings
Print
Default
Default
Default
MENU ↩

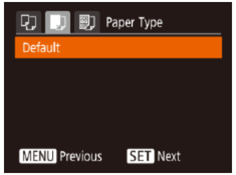
1 Choose [Paper Settings].

- After following step 1 in “Configuring Print Settings” (📖117) to access the printing screen, choose [Paper Settings] and press the [FUNC SET] button.


Paper Size
Default
10x14.8cm
MENU Cancel
SET Next

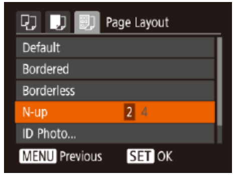
2 Choose a paper size.

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


Paper Type
Default
MENU Previous
SET Next

3 Choose a type of paper.

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


Page Layout
Default
Bordered
Borderless
N-up 2 4
ID Photo...
MENU Previous
SET OK

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

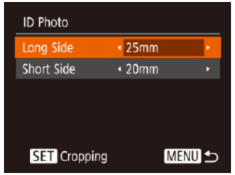
Default	Matches current printer settings.
Bordered	Prints with blank space around the image.
Borderless	Borderless, edge-to-edge printing.
N-up	Choose how many images to print per sheet.
ID Photo	Prints images for identification purposes. Only available for images with a recording pixel setting of L 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

▶ Still Images ▷ Movies

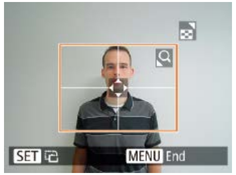
1 Choose [ID Photo].

- Following steps 1 – 4 in “Choosing Paper Size and Layout before Printing” (📖118), choose [ID Photo] and press the [FUNC SET] button.


ID Photo
Long Side 25mm
Short Side 20mm
SET Cropping
MENU ↩

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.



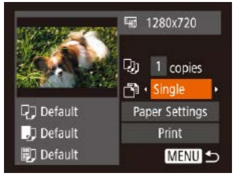
3 Choose the printing area.

- Follow step 2 in “Cropping Images before Printing” (📖117) to choose the printing area.

4 Print the image.

Printing Movie Scenes

▷ Still Images ▶ **Movies**


1280x720
1 copies
Single
Default
Default
Default
Paper Settings
Print

1 Access the printing screen.

- Follow steps 1 – 6 in “Easy Print” (📖116) to choose a movie. This screen 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, press the [FUNC SET] button, choose [OK], and then press the [FUNC SET] button again.
- After displaying a scene to print as described in steps 2 – 5 of “Viewing” (📖60), you can also access the screen in step 1 here by pressing the [◀][▶] buttons to choose [⎙] in the movie control panel and then pressing the [FUNC SET] button.

Adding Images to the Print List (DPOF)

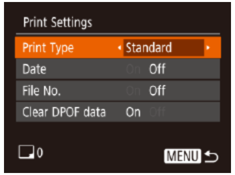
▶ **Still Images** ▷ Movies

Batch printing (📖121) 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 to DPOF (Digital Print Order Format) standards.

Configuring Print Settings

▶ **Still Images** ▷ Movies

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.


Print Settings
Print Type Standard
Date On Off
File No. On Off
Clear DPOF data On Off
0

- Press the [MENU] button, and then choose [Print Settings] on the [⎙] tab. Choose and configure items as desired (📖26).

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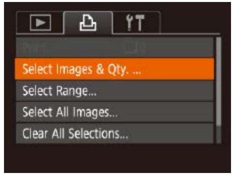
Print Type	Standard	One image is printed per sheet.
	Index	Smaller versions of multiple images are printed per sheet.
	Both	Both standard and index formats are printed.
Date	On	Images are printed with the shooting date.
	Off	–
File No.	On	Images are printed with the file number.
	Off	–
Clear DPOF data	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.

- Specifying [Index] will prevent you from choosing [On] for both [Date] and [File No.] at the same time.
- Index printing is not available on some Canon-brand PictBridge-compatible printers (sold separately).
- The date is printed in a format matching setting details in [Date/Time] on the [🔧] tab (📖18).

Setting Up Printing for Individual Images

▶ **Still Images** ▷ Movies

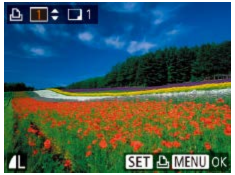


1 Choose [Select Images & Qty.].

- 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.

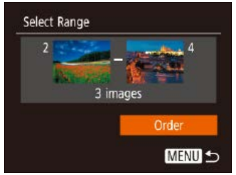


3 Specify the number of prints.

- 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

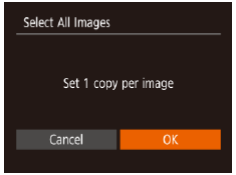
▶ **Still Images** ▷ Movies


Select Range
2
4
3 images
Order
MENU ↩

- Following step 1 in “Setting Up Printing for Individual Images” (📖120), choose [Select Range] and press the [FUNC SET] button.
- Follow steps 2 – 3 in “Selecting a Range” (📖67) to specify images.
- Press the [▲][▼] buttons to choose [Order], and then press the [FUNC SET] button.

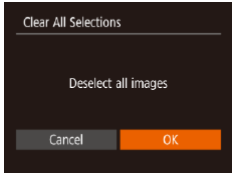
Setting Up Printing for All Images

▶ **Still Images** ▷ Movies


Select All Images
Set 1 copy per image
Cancel
OK

- Following step 1 in “Setting Up Printing for Individual Images” (📖120), choose [Select All Images] and press the [FUNC SET] button.
- Press the [◀][▶] buttons to choose [OK], and then press the [FUNC SET] button.

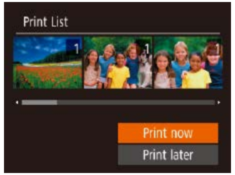
Clearing All Images from the Print List


Clear All Selections
Deselect all images
Cancel
OK

- Following step 1 in “Setting Up Printing for Individual Images” (📖120), choose [Clear All Selections] and press the [FUNC SET] button.
- Press the [◀][▶] buttons to choose [OK], and then press the [FUNC SET] button.

Printing Images Added to the Print List (DPOF)

▶ **Still Images** ▷ Movies


Print List
1
1
1
Print now
Print later

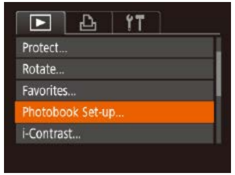
- When images have been added to the print list (📖119 – 📖121), this screen is displayed after you connect the camera to a PictBridge-compatible printer. Press the [▲][▼] buttons to choose [Print now], and then simply press the [FUNC SET] button to print the images in the print list.
- Any DPOF print job that you temporarily stop will be resumed from the next image.

Adding Images to a Photobook

▶ **Still Images** ▷ Movies

Photobooks can be set up on the camera by choosing up to 998 images on a memory card and using CameraWindow to import them to your computer (📖114), where they are copied to their own folder. This is convenient when ordering printed photobooks online or printing photobooks with your own printer.

Choosing a Selection Method


Protect...
Rotate...
Favorites...
Photobook Set-up...
i-Contrast...

- 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.

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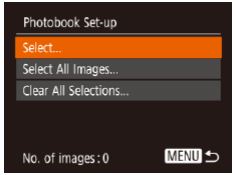
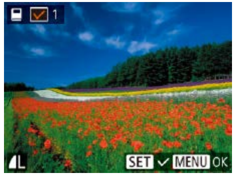
Adding Images Individually

▶ **Still Images** ▷ Movies


Photobook Set-up
Select...
Select All Images...
Clear All Selections...
No. of images : 0
MENU ⮌

1 Choose [Select].

- Following the procedure in “Choosing a Selection Method” (📖121), choose [Select] and press the [FUNC/SET] button.

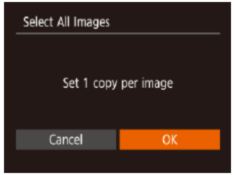


2 Choose an image.

- 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

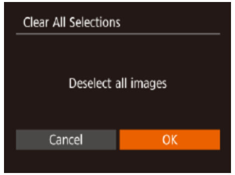
▶ **Still Images** ▷ Movies


Select All Images
Set 1 copy per image
Cancel OK

- Following the procedure in “Choosing a Selection Method” (📖121), choose [Select All Images] and press the [FUNC/SET] button.
- Press the [◀][▶] buttons to choose [OK], and then press the [FUNC/SET] button.

Removing All Images from a Photobook

▶ **Still Images** ▷ Movies


Clear All Selections
Deselect all images
Cancel OK

- Following the procedure in “Choosing a Selection Method” (📖121), choose [Clear All Selections] and press the [FUNC/SET] button.
- Press the [◀][▶] buttons to choose [OK], and then press the [FUNC/SET] button.

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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 power button is pressed.

- Confirm that the battery pack is charged (📖16).
- Confirm that the battery pack is inserted facing the correct way (📖17).
- Confirm that the memory card/battery cover is fully closed (📖17).
- Dirty battery terminals reduce battery performance. Try cleaning the terminals with a cotton swab and reinserting the battery pack a few times.

The battery pack runs out of power quickly.

- Battery performance decreases at low temperatures. Try warming the battery pack a little by putting it in your pocket, for example, ensuring that the terminals do not touch any metal objects.
- Dirty battery terminals reduce battery performance. Try cleaning the terminals with a cotton swab and reinserting the battery pack a few times.
- If these measures do not help and the battery pack still runs out of power soon after charging, it has reached the end of its life. Purchase a new battery pack.

The lens is not retracted.

- Do not open the memory card/battery cover while the camera is on. Close the cover, turn the camera on, and then turn it off again (📖17).

The battery pack is swollen.

- Battery swelling is normal and does not pose any safety concerns. However, if battery swelling prevents the battery pack from fitting in the camera, contact a Canon Customer Support Help Desk.

Display on a TV

Camera images look distorted or are not displayed on a TV (📖113).

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Shooting

Cannot shoot.

- In Playback mode (📖60), press the shutter button halfway (📖24).

Strange display on the screen under low light (📖25).

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 darken under bright light.
  - The screen may flicker under fluorescent or LED lighting.
  - Purplish banding may appear on the screen if you compose a shot that includes a bright light source.

No date stamp is added to images.

- Configure the [Date Stamp 📅] setting (📖18). Note that date stamps are not added to images automatically, merely because you have configured the [Date/Time] setting (📖36).
- Date stamps are not added in shooting modes (📖134) in which [Date Stamp 📅] cannot be configured (📖36).

[⚡] flashes on the screen when the shutter button is pressed, and shooting is not possible (📖31).

[✋] is displayed when the shutter button is pressed halfway (📖31).

- Set [IS Mode] to [Continuous] (📖59).
- Raise the flash and set the flash mode to [⚡] (📖57).
- Increase the ISO speed (📖51).
- Mount the camera on a tripod or take other measures to keep it still. Additionally, you should set [IS Mode] to [Off] when using a tripod or other means to secure the camera (📖59).

Shots are out of focus.

- Press the shutter button halfway to focus on subjects before pressing it all the way down to shoot (📖24).
- Make sure subjects are within focusing range (📖138).
- Set [AF-assist Beam] to [On] (📖39).
- Confirm that unneeded functions such as macro are deactivated.
- Try shooting with focus lock (📖55).

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.

- Raise the flash and set the flash mode to [⚡] (📖57).
- Adjust brightness by using exposure compensation (📖50).
- Adjust contrast by using i-Contrast (📖51, 📖74).
- Use spot metering (📖50).

Subjects look too bright, highlights are washed-out.

- Lower the flash and set the flash mode to [⊘] (📖29).
- Adjust brightness by using exposure compensation (📖50).
- Use spot metering (📖50).
- Reduce the lighting on subjects.

Shots look too dark despite the flash firing (📖31).

- Shoot within flash range (📖138).
- Increase the ISO speed (📖51).

Subjects in flash shots look too bright, highlights are washed-out.

- Shoot within flash range (📖138).
- Lower the flash and set the flash mode to [⊘] (📖29).

White spots 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 (📖51).

Subjects are affected by red-eye.

- Set [Red-Eye Lamp] to [On] (📖40) to light the red-eye reduction lamp (📖4) for flash shots. Note that while the red-eye reduction lamp is lit (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 (📖74).

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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 (📖107).

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 Tab” (📖131 – 📖134).

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 (📖106, 📖140).

[❗] 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 (📖107).
  - Lower the image quality (📖38).
  - Switch to a memory card that supports high-speed recording (📖140).

Zooming is not possible.

- Zooming is not possible when shooting movies in [🎬] mode (📖45).

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.

Playback stops, or audio skips.

- Switch to a memory card that you have performed low-level formatting on with the camera (📖107).
- 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.

Sound is not played during movies.

- Adjust the volume (📖103) if you have activated [Mute] (📖103) or the sound in the movie is faint.
- No sound is played for movies shot in [🎬] mode (📖45) because audio is not recorded in this mode.

Memory Card

The memory card is not recognized.

- Restart the camera, with the memory card in it (📖23).

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.

Wi-Fi

Cannot access the Wi-Fi menu by pressing the [((ı))] button.

- The Wi-Fi menu cannot be accessed while the camera is connected to a printer or computer via a cable. Disconnect the cable.

Cannot add a device/destination.

- A total of 20 items of connection information can be added to the camera. Erase unneeded connection information from the camera first, and then add new devices/destinations (📖101).
- Use a computer or smartphone to register Web services (📖88).
- To add a smartphone, first install the dedicated application Camera Connect on your smartphone (📖77).
- To add a computer, first install the software CameraWindow on your computer. Also check your computer and Wi-Fi environment and settings (📖83, 📖84).
- Do not use the camera near sources of Wi-Fi signal interference, such as microwave ovens, Bluetooth devices, or other equipment operating on the 2.4 GHz band.
- Bring the camera closer to the other device you are trying to connect to (such as the access point), and make sure there are no objects between the devices.

Cannot connect to the access point.

- Confirm that the access point channel is set to a channel supported by the camera (📖140). Note that instead of auto channel assignment, it is advisable to specify a supported channel manually.

Cannot send images.

- The destination device has insufficient storage space. Increase the storage space on the destination device and resend the images.
- The write-protect switch of the memory card in the destination camera is set to the locked position. Slide the write-protect switch to the unlocked position.
- Images cannot be sent to CANON iMAGE GATEWAY or other Web services if you move or rename image files or folders on the computer that received images sent using Image Sync via an access point (📖97). Before moving or renaming these image files or folders on the computer, make sure the images have already been sent to CANON iMAGE GATEWAY or other Web services.

Cannot resize images for sending.

- Images cannot be resized to be bigger than the recording pixel setting of their original size.
- Movies cannot be resized.

Images take a long time to send./The wireless connection is disrupted.

- Multiple images may take a long time to send. Try resizing the image to reduce sending time (📖96).
- Movies may take a long time to send.
- Do not use the camera near sources of Wi-Fi signal interference, such as microwave ovens, Bluetooth devices, or other equipment operating on the 2.4 GHz band. Note that images may take a long time to send even when [📶] is displayed.
- Bring the camera closer to the other device you are trying to connect to (such as the access point), and make sure there are no objects between the devices.

No notification message is received on a computer or smartphone after adding CANON iMAGE GATEWAY to the camera.

- Make sure the email address you entered is correct, and try adding the destination again.
- Check the email settings on the computer or smartphone. If they are configured to block email from certain domains, you may not be able to receive the notification message.

Want to erase Wi-Fi connection information before disposing of the camera or giving it to someone else.

- Reset the Wi-Fi settings (📖102).

On-Screen Messages

If an error message is displayed, respond as follows.

Shooting or Playback

No memory card

- The memory card may be inserted facing the wrong way. Reinsert the memory card facing the correct way (📖17).

Memory card locked

- The write-protect switch of the memory card is set to the locked position. Switch the write-protect switch to the unlocked position (📖17).

Cannot record!

- Shooting was attempted without a memory card in the camera. To shoot, insert a memory card facing the correct way (📖17).

Memory card error (📖107)

- If the same error message is displayed even after you have formatted a supported memory card (📖2) and have inserted it facing the correct way (📖17), contact a Canon Customer Support Help Desk.

Insufficient space on card

- There is not enough free space on the memory card to shoot (📖29, 📖42, 📖49) or edit images (📖72). Either erase unneeded images (📖68) or insert a memory card with enough free space (📖17).

Charge the battery (📖16)

No Image.

- The memory card does not contain any images that can be displayed.

Protected! (📖66)

Unidentified Image/Incompatible JPEG/Image too large./Cannot play back MP4

- 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 modify/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* (📖64), Smart Shuffle* (📖65), Rotate* (📖70), Favorites (📖71), Edit* (📖72), Print List* (📖119), and Photobook Set-up* (📖121).

Invalid selection range

- When specifying a range for image selection (📖67, 📖69, 📖121), 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 (📖119) or Photobook Set-up (📖121). Choose 998 images or less.
- Print List (📖119) or Photobook Set-up (📖121) 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 (📖66), Erase (📖68), Favorites (📖71), Print List (📖119), or Photobook Set-up (📖121).

Naming error!

- The folder could not be created or images could not be recorded, because the highest supported folder number (999) for storing images on the card has been reached and the highest supported image number (9999) for images in folders has been reached. On the [🔧] tab, change [File Numbering] to [Auto Reset] (📖107), or format the memory card (📖106).

Lens Error

- This error may occur if the lens is held while it is moving, or when the camera is used in dusty or sandy locations.
- 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
- Correct printing (📖116) may not be possible for photos from other cameras or images that have been altered using computer software, even if the camera is connected to the printer.

Print error
- Check the paper size setting (📖118). 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.

Wi-Fi

Connection failed
- No access points were recognized. Check the access point settings (📖84).
- A device could not be found. Turn the camera off and on again, and retry the connection.
- Check the device you want to connect to and make sure it is ready for connection.

Cannot determine access point
- The WPS buttons on numerous access points were pressed simultaneously. Try reconnecting again.

No access points found
- Check to make sure that the access point is turned on.
- When connecting to an access point manually, make sure that you entered the correct SSID.

Incorrect password/Incorrect Wi-Fi security settings
- Check the access point security settings (📖84).

IP address conflict
- Reset the IP address so that it does not conflict with another.

Disconnected/Receiving failed/Sending failed
- You may be in an environment where Wi-Fi signals are obstructed.
- Avoid using the camera's Wi-Fi function around microwave ovens, Bluetooth devices, and other devices that operate on the 2.4 GHz band.
- Bring the camera closer to the other device you are trying to connect to (such as the access point), and make sure there are no objects between the devices.
- Check the connected device to make sure it is not experiencing errors.

Sending failed
Memory card error
- 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.

Receiving failed
Insufficient space on card
- There is not enough free space on the memory card in the target camera to receive images. Erase images to create space on the memory card, or insert a memory card with sufficient space.

Receiving failed
Memory card locked
- The write-protect switch of the memory card in the camera to receive the images is set to the locked position. Slide the write-protect switch to the unlocked position.

Receiving failed
Naming error!
- When the highest folder number (999), and the highest image number (9999) have been reached on the receiving camera, images cannot be received.

Insufficient space on server
- Delete unnecessary images uploaded to CANON iMAGE GATEWAY to create space.
- Save the images sent via Image Sync (📖97) to your computer.

Check network settings
- Check to make sure your computer can connect to the Internet with the current network settings.

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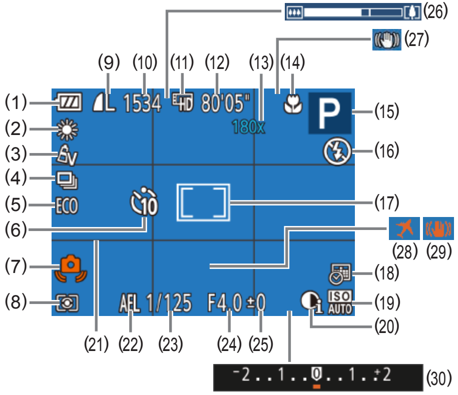
On-Screen Information

Shooting (Information Display)



(1) Battery level (📖129)
(2) White balance (📖52)
(3) My Colors (📖52)
(4) Drive mode (📖36)
(5) Eco mode (📖105)
(6) Self-timer (📖34)
(7) Camera shake warning (📖31)
(8) Metering method (📖50)
(9) Still image compression (📖58), Recording pixel setting (📖38)
(10) Recordable shots (📖139)
(11) Movie quality (📖38)
(12) Remaining time (📖140)
(13) Zoom magnification (📖34), Digital tele-converter (📖54)
(14) Focus range (📖54)
(15) Shooting mode (📖131), Scene icon (📖32)
(16) Flash mode (📖57)
(17) AF frame (📖55), Spot AE point frame (📖50)
(18) Date stamp (📖36)
(19) ISO speed (📖51)
(20) i-Contrast (📖51)
(21) Grid lines (📖39)
(22) AE lock (📖50)
(23) Shutter speed
(24) Aperture value
(25) Exposure compensation level (📖50)
(26) Zoom bar (📖29)
(27) IS mode icon (📖33)
(28) Time zone (📖104)
(29) Image stabilization (📖59)
(30) Exposure compensation bar (📖50)

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 pack soon
[Charge the battery]	Depleted—charge the battery pack immediately

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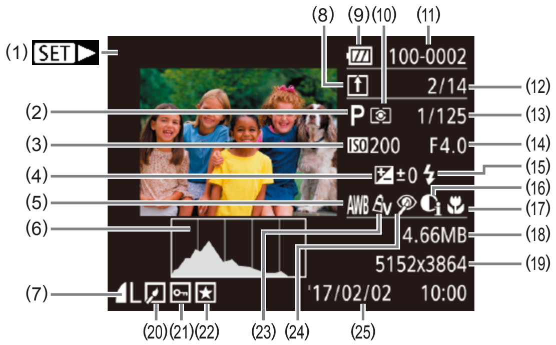
Playback (Detailed Information Display)



(1) Movies (🕮29, 🕮60)

(2) Shooting mode (🕮131)

(3) ISO speed (🕮51), Playback speed (🕮45)

(4) Exposure compensation level (🕮50)

(5) White balance (🕮52)

(6) Histogram (🕮62)

(7) Compression (image quality) (🕮58) / Recording pixel setting (🕮38), MP4 (movies)

(8) Image Sync (🕮97)

(9) Battery level (🕮129)

(10) Metering method (🕮50)

(11) Folder number - File number (🕮107)

(12) Current image no. / Total no. of images

(13) Shutter speed (still images), Image quality / Frame rate (movies) (🕮38)

(14) Aperture value

(15) Flash (🕮57)

(16) i-Contrast (🕮51, 🕮74)

(17) Focus range (🕮54)

(18) File size

(19) Still images: Recording pixel setting (🕮139)
Movies: Playback time (🕮140)

(20) Image editing (🕮72)

(21) Protection (🕮66)

(22) Favorites (🕮71)

(23) My Colors (🕮52, 🕮73)

(24) Red-eye correction (🕮74)

(25) Shooting date/time (🕮18)

- Some information may not be displayed when viewing images on a TV (🕮113).

Summary of Movie Control Panel

The following operations are available on the movie control panel, accessed as described in “Viewing” (🕮60).

⮌	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 (🕮75)
⎙	Shown when the camera is connected to a PictBridge-compatible printer (🕮116).

* Displays the frame approx. 4 sec. before or after the current frame.

- To skip forward or back during movie playback, press the [◀][▶] buttons.

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Functions and Menu Tables

Functions Available in Each Shooting Mode

Shooting Mode Function	AUTO	P	LIVE											
Exposure Compensation (📖50)	–	O	O	O	O	O	O	O	O	O	O	–	O	–
Flash (📖57)														
⚡A	O	O	O	O	O	O	O	O	O	O	O	O	–	–
⚡	–	O	O	O	O	–	O	O	O	O	O	O	–	O
⚡★	*1	O	O	–	–	–	–	–	–	–	–	–	–	–
⊘	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Focus Range (📖54)														
▲A	O	O	O	O	O	O	O	O	O	O	O	O	O	O
🌷 ▲	–	O	O	O	–	O	O	O	O	O	O	O	–	O
Tracking AF (📖56)	–	O	O	O	–	O	O	–	–	–	O	O	–	O
Change Display (📖25)	O	O	–	O	–	O	–	–	–	–	O	O	O	O

*1 Not available, but switches to [⚡★] in some cases.

FUNC. Menu

Function \ Shooting Mode	AUTO	P	LIVE	☺	◔	✺	◪	◉	▣	⛟	◓	▞	▦	★
Light Metering (📖50)														
◙	O	O	O	O	O	O	O	O	O	O	O	O	O	O
[ ] [•]	–	O	–	–	–	–	–	–	–	–	–	–	–	–
My Colors (📖52)														
OFF	O	O	O	O	O	O	O	O	O	O	O	O	O	O
V N Se*1 BW*1 P L D B G R C*2	–	O	–	–	O	–	–	–	–	–	–	–	–	O
White Balance (📖52)														
AWB	O	O	O	O	O	O	O	O	O	O	O	O	O	O
☀ ☁ ✺ ☷ ☷ ⛭	–	O	–	–	O	O	–	–	–	–	–	–	–	O
ISO Speed (📖51)														
ISO AUTO	O	O	O	O	O	O	O	O	O	O	O	O	O	–
ISO 100 ISO 200 ISO 400 ISO 800 ISO 1600	–	O	–	–	–	–	–	–	–	–	–	–	–	O
Self-Timer (📖34)														
OFF	O	O	O	O	O	O	O	O	O	O	O	O	O	O
10 2 C	O	O	O	O	–	O	O	O	O	O	O	O	O	O
Self-Timer Settings (📖35)	O	O	O	O	–	O	O	O	O	O	O	O	O	O
Drive Mode (📖36)														
□	O	O	O	O	O	O	O	O	O	O	O	O	O	O
⧉	O	O	–	O	–	O	O	O	O	O	O	O	O	–

*1 White balance is not available.
*2 Set in a range of 1 – 5: contrast, sharpness, color saturation, red, green, blue, and skin tone.

Function \ Shooting Mode	AUTO	P	LIVE											
Still Image Aspect Ratio (📖37)														
16:9	O	O	–	O	O	–	O	–	–	O	O	O	O	O
3:2 1:1	O	O	–	O	O	–	O	–	–	–	O	O	O	O
4:3	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Recording Pixels (📖38)														
L	O	O	O	O	O	–	O	O	O	O	O	O	O	O
M1 M2 S	O	O	–	O	O	–	–	–	–	–	–	–	O	O
M	–	–	–	–	–	O	–	–	–	–	–	–	–	–
Compression (📖58)														
S	–	O	–	–	–	–	–	–	–	–	–	–	–	–
◢	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Movie Quality (📖38)														
HD VGA	O	O	O	O	O	O	O	O	O	*1	O	O	O	O

*1 Synchronizes with the aspect ratio setting and is automatically set (📖45).

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Shooting Tab

Shooting Mode Function	AUTO	P	LIVE											
AF Frame (📖55)														
Face AiAF	O	O	O	O	O	O	O	–	O	–	O	O	–	O
Tracking AF	–	O	O	O	–	O	O	–	–	–	O	O	–	O
Center	–	O	O	O	–	O	O	O	O	–	O	O	O	O
AF Frame Size (📖55)*1														
Normal	–	O	O	O	–	O	O	O	O	–	O	O	–	O
Small	–	O	O	O	–	O	O	–	O	–	O	O	–	O
Digital Zoom (📖34)														
Standard	O	O	O	O	O	–	–	–	–	–	–	–	O	O
Off*2	O	O	O	O	O	O	O	O	O	O	O	O	O	O
1.6x/2.0x	–	O	O	–	–	–	–	–	–	–	–	–	–	–
Servo AF (📖56)														
Enable	–	O	O	O	–	O	O	–	–	–	O	O	–	–
Disable	*3	O	O	O	O	O	O	O	O	O	O	O	O	O
Continuous AF (📖57)														
Enable	O	O	O	O	O	–	O	O	O	O	O	O	–	O
Disable	–	O	O	O	–	O	O	O	O	O	O	O	O	O

*1 Available when the AF frame is set to [Center].
*2 Digital zoom is also canceled if you switch to a shooting mode where it is not available.
*3 [Enable] when subject movement is detected.

Function		Shooting Mode	AUTO	P	LIVE										
AF-assist Beam (📖39)															
	On		O	O	O	O	O	O	O	O	O	O	O	O	–	O
	Off		O	O	O	O	O	O	O	O	O	O	O	O	O	O
Flash settings (📖40)															
	Red-Eye Lamp	On/Off	O	O	O	O	O	O	O	O	O	O	O	O	–	O
i-Contrast (📖51)															
	Auto		O	O	–	–	–	O	–	–	–	–	–	–	–	–
	Off		–	O	O	O	O	–	O	O	O	O	O	O	O	O
Review image after shooting (📖40)															
	Display Time	Off/Quick/2 sec./4 sec./ 8 sec./Hold	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	Display Info	Off/Detailed	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Grid Lines (📖39)															
	On/Off		O	O	O	O	O	O	O	O	O	O	O	O	O	O
IS Settings (📖59)															
	IS Mode	Continuous/Off	O	O	O	O	O	O	O	O	O	O	O	O	O	O
		Shoot Only	–	O	O	O	O	O	O	O	O	O	O	O	O	O
	Dynamic IS	1	O	O	O	O	O	O	O	O	O	–	O	O	O	O
		2	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Date Stamp 📅 (📖36)															
	Off		O	O	O	O	O	O	O	O	O	O	O	O	O	O
	Date/Date & Time		O	O	O	O	O	–	–	–	–	–	–	–	O	O

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Set Up Tab

Item	Reference Page
Mute	📖103
Volume	📖103
Hints & Tips	📖104
Date/Time	📖18
Time Zone	📖104
Lens Retraction	📖105
Eco Mode	📖105
Power Saving	📖24, 📖105
Disp. Brightness	📖106
Start-up Image	📖106
Format	📖106, 📖107
File Numbering	📖107
Create Folder	📖108
Units	📖108
Video System	📖113
Wi-Fi connect'n	📖81
Wireless settings	📖76
Certification Logo Display	📖108
Language 🗨	📖19
Reset All	📖109

Playback Tab

Item	Reference Page
Slideshow	📖64
Erase	📖68
Protect	📖66
Rotate	📖70
Favorites	📖71
Photobook Set-up	📖121
i-Contrast	📖74
Red-Eye Correction	📖74
Cropping	📖72
Resize	📖72
My Colors	📖73
Transition	📖60
Scroll Display	📖60
Auto Rotate	📖70
Resume	📖60

Print Tab

Item	Reference Page
Print	–
Select Images & Qty.	📖120
Select Range	📖121
Select All Images	📖121
Clear All Selections	📖121
Print Settings	📖119

Playback Mode FUNC. Menu

Item	Reference Page
Rotate	📖70
Protect	📖66
Favorites	📖71
Print	📖116
Play Movie	📖60
Smart Shuffle	📖65
Image Search	📖63
Slideshow	📖64

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 pack and memory card, and wait until the moisture has evaporated before resuming use.
- Store unused battery packs in a plastic bag or other container. To maintain battery performance if you will not use the battery pack for some time, about once a year charge it and then use the camera until it runs out of power before storing the battery pack.

Specifications

Image Sensor

Image size ....1/2.3 type
Camera Effective Pixels
(*Pixels may decrease due to image
processing) ....Approx. 20.0 megapixels
Total pixels ....Approx. 20.5 megapixels

Lens

Focal Length
(35mm film equivalent) ....4.3 – 193.5 mm (24 – 1080 mm)
Zoom Magnification 45x

Shooting Range (measured from the tip of the lens)

Shooting Mode	Focus Range	Maximum Wide Angle (🌲🌲🌲)	Maximum Telephoto ([🌲])
AUTO	–	0 cm – infinity (0.0 in. – infinity)	1.3 m – infinity (4.3 ft. – infinity)
Other than the above	▲	5 cm – infinity (2.0 in. – infinity)	1.3 m – infinity (4.3 ft. – infinity)
	🌷*	0 – 50 cm (0.0 in. – 1.6 ft.)	–
	⛰	3.0 m – infinity (9.8 ft. – infinity)	3.0 m – infinity (9.8 ft. – infinity)

* Not available in some shooting modes.

Shutter

Shutter Speed
Auto Mode (automatic settings)
Max. Tv...1 sec.
Min. Tv...1/4000 sec.
Range in all shooting modes
Max. Tv...15 sec.
Min. Tv...1/4000 sec.

Aperture

F number
Wide angle.....................................3.5 – 8.0
Telephoto ....6.8 – 8.0

Flash

Built-in Flash
Max. wide angle
closest point.................................50 cm (1.6 ft.)
farthest point.................................5.0 m (16.4 ft.)
Telephoto end
closest point.................................1.3 m (4.3 ft.)
farthest point.................................2.7 m (8.9 ft.)

Monitor

Type ....TFT color liquid crystal
Screen Size ....3.0 type
Effective Pixels ....Approx. 230 thousand dots

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Shooting

Digital zoom
- Magnification.....................................Approx. 4x
- Maximum with optical zoom..............Approx. 180x
- Focal Length (Telephoto end, 35mm film equivalent).....Approx. 4320 mm equivalent
- ZoomPlus (Number of recording pixels L)................Approx. 90x

Continuous Shooting
- Shooting speed*
  - Auto/P Normal Continuous ....Approx. 0.5 shots/sec.
  - Low Light Mode ....Approx. 2.2 shots/sec.

* Continuous shooting speed may become slower due to the following factors: Tv value/Av value/Subject conditions/Lighting conditions/Use of flash/Zoom position

Recording

File Format...DCF-compliant DPOF compatible (Version1.1)

Data Type
- Still Images
  - Recording Format.........................Exif2.3 (DCF2.0)
  - Image..JPEG only
- Movies
  - Recording Format.........................MP4
  - Video..MPEG-4 AVC/H.264
  - Audio ....MPEG-4 AAC-LC (monaural)

Recorded Pixels, Number of shots per a memory card
- Still Image
  - Using a 16 GB (UHS-I) memory card (Approx. shots)

L	S	2015
	◢	3397
M1	S	3982
	◢	6656
M2	S	10563
	◢	18689
S	S	60741
	◢	80988

Movies
Using a 16 GB (UHS-I) memory card

Pixels	Frame Rate/ Video System	Recordable time per a memory card (Approx.)	Single Clip Recording Time (Approx.)
HD (1280 x 720)	HD 29.97P (NTSC) HD 25.00P (PAL)	2 hr. 35 min. 37 sec.	29 min. 59 sec.
VGA (640 x 480)	VGA 29.97P (NTSC) VGA 25.00P (PAL)	8 hr. 25 min. 48 sec.	1 hr.

- Limitations of movie shooting: continuous shooting is possible until the memory card becomes full or the recording length for one movie reaches approx. 29 minutes 59 seconds.

Power

Battery Pack NB-11LH

Number of Still Image Shots (CIPA Compliant)	Approx. 195 shots
Number of Still Image Shots (Eco Mode On)	Approx. 260 shots
Movie Recording Time (CIPA Compliant)	Approx. 50 min.
Movie Recording Time (Continuous Shooting)	Approx. 90 min.
Playback Time*	Approx. 5 hr.

* Time when playing back a slideshow of still images.

Interface

Wired
Digital terminal
(Hi-Speed USB compliant)................Mini-B
Analog Video Output (NTSC/PAL)
Analog Audio Output........................Monaural

Wireless
NFC ....NFC Forum Type3/4 Tag compliant (Dynamic)
Wi-Fi
Compliance standards.................IEEE 802.11b/g/n
Transmission frequency
Frequency................................2.4 GHz
Channels ....1 – 11 ch
Security
Infrastructure mode ....WPA2-PSK (AES/TKIP), WPA-PSK (AES/TKIP), WEP
* Wi-Fi Protected Setup compliant
Camera access point mode......WPA2-PSK (AES)
Ad hoc mode ....WPA2-PSK (AES)

Operating Environment

Temperature.......................................Min. 0 °C, max. 40 °C (Min. 32 °F, max. 104 °F)

Dimensions (CIPA compliant)

W...104.4 mm (4.1 in.)

H...69.1 mm (2.7 in.)

D...85.1 mm (3.4 in.)

Weight (CIPA Compliant)

Camera Body Only ....Approx. 306 g (approx. 10.8 oz.)

Including Battery Pack, Memory Card......Approx. 323 g (approx. 11.4 oz.)

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Battery Pack NB-11LH

Type:	Rechargeable lithium-ion battery
Nominal voltage:	3.6 V DC
Nominal capacity:	800 mAh
Charging cycles:	Approx. 300 times
Operating temperatures:	0 – 40 °C (32 – 104 °F)

Battery Charger CB-2LF / CB-2LFE

Rated input:	100 – 240 V AC (50/60 Hz)
Rated output:	4.2 V DC, 0.41 A
Charging time:	Approx. 2 hr. 20 min. (when using NB-11LH)
Operating temperatures:	5 – 40 °C (41 – 104 °F)

- 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 pack.

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Precautions for Wireless Features (Wi-Fi or Others)

- Countries and Regions Permitting Wireless Function Use
  - Use of wireless functions is restricted in some countries and regions, and illegal use may be punishable under national or local regulations. To avoid violating wireless regulations, visit the Canon website to check where use is allowed.
    Note that Canon cannot be held liable for any problems arising from wireless function use in other countries and regions.
- Doing any of the following may incur legal penalties:
  - Altering or modifying the product
  - Removing the certification labels from the product
- Before goods or technologies in the camera regulated by the Foreign Exchange and Foreign Trade Act are exported (which includes bringing them outside Japan or showing them to non-residents in Japan), export or service transaction permission may be required from the Japanese government.
- Because this product includes American encryption items, it falls under U.S. Export Administration Regulations, and cannot be exported to or brought into a country under U.S. trade embargo.
- Be sure to make notes of the Wi-Fi settings you use.
  The wireless settings saved to this product may change or be erased due to incorrect operation of the product, the effects of radio waves or static electricity, or accident or malfunction. Please note that Canon accepts no responsibility for direct or indirect damages or loss of earnings resulting from a degradation or disappearance of content.
- When transferring ownership, disposing of the product, or sending it for repair, restore the default wireless settings by erasing any settings you have entered.
- Canon will not make compensation for damages resulting from loss or theft of the product.
  Canon accepts no responsibility for damages or loss resulting from unauthorized access or use of target devices registered on this product due to loss or theft of the product.
- Do not use the wireless function of this product near medical equipment or other electronic equipment.
  Use of the wireless function near medical equipment or other electronic equipment may affect operation of those devices.

Radio Wave Interference Precautions

- This product may receive interference from other devices that emit radio waves. To avoid interference, be sure to use this product as far away as possible from such devices, or avoid using the devices at the same time as this product.

Security Precautions

Because Wi-Fi uses radio waves to transmit signals, security precautions more stringent than when using a LAN cable are required.
Keep the following points in mind when using Wi-Fi.

- Only use networks you are authorized to use.
  This product searches for Wi-Fi networks in the vicinity and displays the results on the screen. Networks you are not authorized to use (unknown networks) may also be displayed. However, attempting to connect to or using such networks could be regarded as unauthorized access. Be sure to use only networks you are authorized to use, and do not attempt to connect to other unknown networks.

If security settings have not been properly set, the following problems may occur.

- Transmission monitoring
  Third parties with malicious intent may monitor Wi-Fi transmissions and attempt to acquire the data you are sending.
- Unauthorized network access
  Third parties with malicious intent may gain unauthorized access to the network you are using to steal, modify, or destroy information. Additionally, you could fall victim to other types of unauthorized access such as impersonation (where someone assumes an identity to gain access to unauthorized information) or springboard attacks (where someone gains unauthorized access to your network as a springboard to cover their tracks when infiltrating other systems).

To prevent these types of problems from occurring, be sure to thoroughly secure your Wi-Fi network.
Only use this camera's Wi-Fi function with a proper understanding of Wi-Fi security, and balance risk and convenience when adjusting security settings.

Third-Party Software

- expat.h
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Personal Information and Security Precautions

If personal information and/or Wi-Fi security settings, such as passwords, etc., are saved on the camera, please be aware that such information and settings may still remain in the camera.
When transferring the camera to another person, disposing of it, or sending it for repair, be sure to take the following measures to prevent the leakage of such information and settings.

- Erase registered Wi-Fi security information by choosing [Reset Settings] in the Wi-Fi settings.

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