Canon

PowerShot G9X

Camera User Guide

- Make sure you read this guide, including the "Safety Precautions" (Q14) 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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ENGLISH

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-13L*



Battery Charger CB-2LH/CB-2LHE



<u>]]</u>

* 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^{*1}
- SDHC memory cards *1*2
- SDXC memory cards*1*2



- *1 Cards conforming to SD standards. However, not all memory cards have been verified to work with the camera.
 *2 UKS L memory cards are place supported.
- *2 UHS-I memory cards are also supported.





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.
- Images recorded by the camera shall be for personal use. Refrain from unauthorized recording that infringes on copyright law, and note that even for personal use, photography may contravene copyright or other legal rights at some performances or exhibitions, or in some commercial settings.
- 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 highprecision 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 and dials 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" (1)4).
 Control ring (10) on front
- Shooting modes and on-screen icons and text are indicated in brackets.
- (): Important information you should know
- Ø: Notes and tips for expert camera use
- *: Indicates touch-screen operations
- xx: Pages with related information (in this example, "xx" represents a page number)
- Instructions in this guide apply to the camera under default settings.
- For convenience, all supported memory cards are simply referred to as the "memory card".
- The symbols "> Still Images" and "> Movies" below titles indicate how the function is used—whether for still images or movies.





Part Names



- (1) Lens
- (2) Lamp
- Strap mount (3)
- Zoom lever (4) Shooting: [(telephoto)] / [(wide angle)] Playback:[Q (magnify)] / [(index)]
- Mode dial (5)
- (6) Shutter button
- (7) Power button
- (8) Speaker

- [] (Playback)] button (9)
- (10) Control ring
- (11) Flash
- (12) [(Mobile Device Connection)] button
- (13) Serial number (Body number)
- (14) (N-Mark)*1
- (15) Tripod socket
- (16) Memory card/battery cover
- (17) DC coupler terminal cover



- [(Quick Set menu/Set)] button (7)
- [MENU] button (8)
- (9) Indicator / USB charge lamp
- (10) [NFO (Information)] button
- Used with NFC features (2132). *1

Microphone

DIGITAL terminal

HDMI[™] terminal

(3)

(4)

(5)

*2 Gestures may not be detected as easily if you apply a screen protector. In this case, increase the sensitivity of the touch-screen panel (Q164).

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Common Camera Operations

🗖 Shoot

- Use camera-determined settings (Auto Mode, Hybrid Auto Mode)
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- See several effects applied to each shot, using camera-determined settings (Creative Shot Mode)
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Shooting people well



<u>★</u>*

Matching specific scenes



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- Include yourself in the shot (Self-Timer)
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Safety Precautions

- Before using the product, ensure that you read the safety precautions described below. Always ensure that the product is used correctly.
- The safety precautions noted here are intended to prevent you and other persons from being injured or incurring property damage.
- Be sure to also check the guides included with any separately sold accessories vou use.

Denotes the possibility of serious injury or death. Warning

• Do not trigger the flash in close proximity to people's eyes. Exposure to the intense light produced by the flash could damage evesight. In particular, remain at least 1 meter (3.3 feet) away from infants when using the flash.

 Store this equipment out of the reach of children and infants. A strap wound around a child's neck may result in asphyxiation. If your product uses a power cord, mistakenly winding the cord around a child's neck may result in asphyxiation.

- Use only recommended power sources.
- Do not disassemble, alter, or apply heat to the product. •
- Do not peel off the adhesive covering, if the battery pack has it. •
- Avoid dropping or subjecting the product to severe impacts.
- Do not touch the interior of the product if it is broken, such as when • dropped.
- Stop using the product immediately if it emits smoke or a strange smell, or otherwise behaves abnormally.
- Do not use organic solvents such as alcohol, benzine, or thinner to clean the product.
- Avoid contact with liquid, and do not allow liquid or foreign objects inside

This could result in electrical shock or fire

If the product aets wet, or if liquid or foreign objects get inside, remove the battery pack/batteries or unplug immediately.

- If your model has a viewfinder or interchangeable lens, do not look through the viewfinder or lens at bright light sources (such as the sun on a clear day, or a bright artificial light source). This may damage your eyesight.
- If your model has an interchangeable lens, do not leave the lens (or the camera with the lens attached) in the sun without the lens cap on. This could result in a fire.

• Do not touch the product during thunderstorms if it is plugged in. This could result in electrical shock or fire. Immediately stop using the product and distance vourself from it.

Use only the recommended battery pack/batteries.

 Do not place the battery pack/batteries near or in direct flame. This may cause the battery pack/batteries to explode or leak, resulting in electrical shock, fire, or injuries. If leaking battery electrolyte comes into contact with eves, mouth, skin, or clothing, immediately flush with water.

- If the product uses a battery charger, note the following precautions.
 - Remove the plug periodically and, using a dry cloth, wipe away any dust and dirt that has collected on the plug, the exterior of the power outlet, and the surrounding area.
 - Do not insert or remove the plug with wet hands.
 - Do not use the equipment in a manner that exceeds the rated capacity of the electrical outlet or wiring accessories. Do not use if the plug is damaged or not fully inserted in the outlet.
 - Do not allow dust or metal objects (such as pins or keys) to contact the terminals or plug.
 - Do not cut, damage, alter, or place heavy items on the power cord, if vour product uses one.

This could result in electrical shock or fire

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

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Do not allow the camera to maintain contact with skin for extended periods.

Even if the camera does not feel hot, this may cause low-temperature burns, manifested in redness of the skin or blistering. Use a tripod in hot places, or if you have poor circulation or insensitive skin.

Caution Denotes the possibility of injury.

 When carrying the product by the strap, be careful not to bang it, subject it to strong impacts or shocks, or let it get caught on other objects.

• Be careful not to bump or push strongly on the lens. This could lead to injury or damage the camera.

• Be careful not to subject the screen to strong impacts. If the screen cracks, injury may result from the broken fragments.

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

This could result in burns or damage to the flash.

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

These could cause leakage, overheating, or an explosion of the battery pack/batteries, resulting in electrical shock, fire, burns, or other injuries. Overheating and damage may result in electrical shock, fire, burns, or other injuries.

- The slideshow transition effects may cause discomfort when viewed for prolonged periods.
- When using optional lenses, lens filters, or filter adapters (if applicable), be sure to attach these accessories firmly.
 If the lens accessory becomes loose and falls off, it may crack, and the shards of glass may lead to cuts.

• On products that raise and lower the flash automatically, make sure to avoid pinching your fingers with the lowering flash. This could result in injury.

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.
- On products that raise and lower the flash automatically, do not push the flash down or pry it open.

This may cause the product to malfunction.

• 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.

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 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.

 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

Touch-Screen Operations

The camera's touch-screen panel enables intuitive operation simply by touching or tapping the screen.

Touching



Dragging



Touch the screen and move your finger across it.

Touch the screen briefly with your finger.

 This gesture is used to shoot, configure camera functions, and so on.

 This gesture is used in Playback mode to switch to the next image, or to change the magnified image area, among other operations.

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Initial Preparations

Prepare for shooting as follows.

Attaching 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).



• The strap can also be attached to the left side of the camera.

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-2LH: Flip out the plug (1) and plug the charger into a power outlet (2).
- CB-2LHE: 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.

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- - For details on charging time and the number of shots and recording time possible with a fully charged battery pack, see "Number of Shots/Recording Time, Playback Time" (205).
 - 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.
 - As a visual reminder of the charge status, attach the battery cover with A visible on a charged battery pack and concealed on an uncharged one.
 - 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.

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 (1160).



Open the cover.

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





2 Insert the battery pack.

- Holding the battery pack with the terminals in the position shown (1), hold the battery lock toward (2) and insert the battery pack toward (3) 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

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. Move the switch toward (1).
- Insert the memory card with the label (2) 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.

Close the cover.

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



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For guidelines on how many shots or hours of recording can be saved on one memory card, see "Number of Shots per Memory

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.



1 Turn the camera on.

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



Time Zone

London

MERU Previous

+ 08.08.2015 10:00



SET OK

2 Set the date and time.

- Touch the item to configure, and then touch [▲][▼] to specify the date and time.
- When finished, press the [P] button.



Touch [◀][▶] to choose your home time zone.

4 Finish the setup process.

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



To set daylight saving time (1 hour ahead), touch [****] and choose [***] in step 2.

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Changing the Date and Time

Adjust the date and time as follows.





• Press the [MENU] button.

Ó	Ý	*	
1 2 3	4 5	SETUR	°2
Eco Mode		Off	
Power Sa	ving		
Disp. Brig	htness	**	
Night Dis	play	Off	
Time Zon		*	
Date/Time	9	08.08.'15 10:00	
Lens Retr	action	1 min.	

- 2 Choose [Date/Time].
- Touch [], and then touch [2].
- Touch [Date/Time], and then press the [()] button.

3 Change the date and time.

- Follow step 2 in "Setting the Date and Time" (Q20) 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 or connect the camera to an AC adapter kit (sold separately, 168), 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" (^[]20).

Display Language

Change the display language as needed.



Norsk

Sugnets

Polsk

Doutsch

Portugu

Suom

Română

Türkce

العربية

ภาษาไทย 简体中文

繁體中文

Enter Playback mode.
 Press the [▶] button.

2 Access the setting screen.

 Press and hold the [[®]] button, and then immediately press the [MENU] button.

3 Set the display language.

- Touch a display language to choose it, and then press the [()] button.
- Once the display language has been set, the setting screen is no longer displayed.



Čeština 한국어

- The current time is displayed if you wait too long in step 2 after pressing the (B) button before you press the [MENU] button. In this case, press the [B] 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.
- You can also set the display language by touching a language on the screen in step 3 and then touching it again.

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Trying the Camera Out

Still Images Movies

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

Shooting (Smart Auto)

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



Turn the camera on.

2 Enter [AUTO] mode.

Press the power button.

Set the mode dial to [AUTO].

as it determines the scene

Aim the camera at the subject. The camera will make a slight clicking noise

The startup screen is displayed.





Icons representing the scene and image stabilization mode are displayed in the upper left 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 [[4]] (telephoto), and to zoom away from the subject, move it toward [[]] (wide angle).









If [Raise the flash] is displayed, move the [2] switch to raise the flash. It will fire when shooting. If you prefer not to use the flash, push it down with your finger. into the camera.

Press the shutter button lightly, halfway

down. The camera beeps twice after

indicate image areas in focus.

focusing, and frames are displayed to

2) Shoot.

4 Shoot.

1) Focus.

Shooting Still Images

- 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.

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4 | b | t



(1)

Recording Movies

1) Start recording.

- 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

08/08/15

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



Press the [] button.

Your last shot is displayed.

2 Choose images.

- To view the next image, drag right to left across the screen, and to view the previous image, drag left to right.
- To access this screen (Scroll Display mode), quickly drag left or right repeatedly. In this mode, drag across the screen to browse through images.
- Press the [[®]] button to restore singleimage display.
- Movies are identified by a [SET >] icon. To play movies, go to step 3.

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3 Play movies.

- Press the [⊕] button, choose [▶], and then press the [⊕] button.
- Playback now begins, and after the movie is finished, [()] is displayed.
- To adjust the volume, quickly drag up or down across the screen during playback.

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



Erasing images

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



 Drag left or right across the screen to choose an image.



2 Erase the image.

- Press the [[®]] button, choose [^m], and then press the [[®]] button.
- After [Erase?] is displayed, touch [Erase].
- The current image is now erased.
- To cancel erasure, touch [Cancel].

• Images can also be erased by using Touch Actions (Q119).

• You can choose multiple images to erase at once (Q116).





Advanced Guide

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.

Plavback 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 (Q26).
- 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 (Q26).

Power Saving in Playback Mode

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

- Power saving is not active while the camera is connected to other devices via Wi-Fi (
 131), or when connected to a computer (
 174).

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 manual, shutter button operations are described as pressing the button *halfway* or *all the way down*.





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 Modes

Use the mode dial to access each shooting mode.



- (2) Creative Shot Mode See several effects applied to each shot automatically (^[]55).
- Special Scene Mode Shoot with settings designed for specific scenes, or add a variety of effects (^[]57).
- Movie Mode
 For shooting movies (\$\$\overline\$69,
 \$\$\overline\$95).
 Yeu and also shoot maying up

You can also shoot movies when the mode dial is not set to Movie mode, simply by pressing the movie button.

(5) P, Tv, Av, M, and C Modes Take a variety of shots using your preferred settings (\$\$\overline\$73, \$\$\$92).

Shooting Display Options

Press the $[\![NFO]\!]$ button to show or hide the grid lines and electronic level.

To configure the on-screen display in greater detail, access [▲1] tab ► [Shooting information display] (□98).

- 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.





Using the Quick Set Menu

Configure commonly used functions in the **Q** (Quick Set) menu. Note that menu items and options vary depending on the shooting mode ([]]192).







2 Choose a menu item.

- Touch a menu item (1) to choose it.
- Available options (2) are shown at the bottom of the screen.

3 Choose an option.

- Drag an option left or right to choose it.
- Items labeled with a [MINU] icon can be configured by pressing the [MENU] button.
- Items labeled with a [INFO] icon can be configured by pressing the [INFO] button.



Confirm your choice and exit.

- Press the [] button.
- The screen before you pressed the () 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 (1166).
- You can also exit by touching [] in the menu.

Using Touch-Screen Operations to Configure Settings



- Touch [Q] in the upper right of the screen to access the Quick Set menu.
- Touch a menu item and then an option to complete the setting.
- To return to the previous screen, touch the [1] menu item, or touch the selected option again.
- You can access the screen for items. labeled with a [MINU] icon by touching (MENU)
- You can access the screen for items labeled with a [NFO] icon by touching **INFO.**

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Using the Menu Screen

Configure a variety of camera functions through the menu screen as follows.



		(1) (2	2)
Ç	<u>0 9</u>		
ų	Create Folder	Monthly	P1
	File Numbering	Continuous	
	Format	7.5GB	
	Video system	NTSC	
	Electronic Level		
	Start-up Image		







- Touch a tab to choose it.
- Tabs represent functions (1), such as shooting ([1]), playback ([1]), or settings ([1]), or pages within each function (2). Tabs are identified in this manual by combining the function and page, as in [1].
- Page tabs can also be selected by moving the zoom lever or dragging left or right across the screen.



3 Choose a menu item.

- Touch an item to choose it, and then press the [[®]] button.
- You can also choose menu items by turning the [[)] ring.
- For menu items with options not shown, first press the [[®]] button to switch screens, and then touch an item to choose it.
- To return to the previous screen, press the [MENU] button.



4 Choose an option.

selection screen

To undo any accidental setting changes, you can restore the

· Available menu items vary depending on the selected shooting or

camera's default settings (1166).

playback mode (4195 - 4202).

• Touch an option to choose it.

5 Confirm your choice and exit.

[MENU] button in step 1.

 Press the [[®]] button to confirm your choice and return to the menu item

• Press the [MENU] button to return to the

screen displayed before you pressed the





Touch-Screen Operations

- To choose tabs, press the [MENU] button to access the menu screen, and then touch the desired function tab and page tab.
- Drag the menu items up or down to scroll them, or touch a menu item to choose it.
- Touch an option to complete the setting and return to the menu item selection screen.
- For menu items displayed with a bar to indicate the level, touch the desired position on the bar.
- To configure menu items for which options are not shown, first touch the menu item to access the setting screen. On the setting screen, either drag or touch to choose the item, and then touch to choose the option. To return to the previous screen, touch [[MINU+]].
- You can also touch input elements (such as check boxes or text fields) to select them, and you can enter text by touching the on-screen keyboard.
- When [SET] is shown, you can touch [SET] instead of pressing the [[®]] button, if you prefer.
- When [MANU] is shown, you can touch [MANU] instead of pressing the [MENU] button, if you prefer.
- When [[NFO] is shown, you can touch [[NFO] instead of pressing the []NFO] button, if you prefer.
- To dismiss the menu, press the [MENU] button again.

On-Screen Keyboard

X MENU OK

abc

(1)

+ +

03/63

о р

Use the on-screen keyboard to enter information for Face ID (\square 43), Wi-Fi connections (\square 131), and so on. Note that the length and type of information you can enter varies depending on the function you are using.

Entering Characters

- Touch the characters to enter them.
- The amount of information you can enter (1) varies depending on the function you are using.

Moving the Cursor

• Touch [+].

Entering Line Breaks

• Touch [].

Switching Input Modes

- To switch to numbers or symbols, touch [
- Touch [介] to enter capital letters.
- Available input modes vary depending on the function you are using.

Deleting Characters

- Touch [] to delete the previous character.
- Touching and holding [] will delete five characters at a time.

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Confirming Input and Returning to the Previous Screen

• Press the [MENU] button.

• For some functions, [] is not displayed and cannot be used.

Indicator Display

 (\mathbf{I})

The indicator on the back of the camera ($\square 4$) lights up or blinks depending on the camera status.

Color	Indicator Status	Camera Status
Green	Blinking	Starting up, recording/reading/transmitting images, shooting long exposures (\$\overline\$92, \$\overline\$93), connected to a computer (\$\overline\$174), connecting/transmitting via Wi-Fi, or display off (\$\overline\$26, \$\overline\$161, \$\overline\$162)
Orange	On	Charging via USB

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

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Clock

You can check the current time.



- Press and hold the [[®]) button.
 The current time appears.
- If you hold the camera vertically while using the clock function, it will ewitch to
- using the clock function, it will switch to vertical display.
- Turn the [[]] ring to change the display color.
- Press the [⁽)] button again to cancel the clock display.

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

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Auto Mode / **Hybrid 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



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

2 Enter [AUTO] mode.

- Set the mode dial to [AUTO].
- 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 left of the screen ($\square 37$, **38**).
- Frames displayed around any detected subjects indicate that they are in focus.

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(1)

(2)

3 Compose the shot.

4 Shoot.

1) Focus.

Shooting Still Images

areas in focus

• To zoom in and enlarge the subject, move the zoom lever toward [[4]] (telephoto), and to zoom away from the subject, move it toward [] (wide angle). (A zoom bar (1) showing the zoom position is displayed, along with the range of focus (2).)

Press the shutter button halfway. The

Several frames are displayed when

multiple areas are in focus.

camera beeps twice after focusing, and frames are displayed to indicate image



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

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If [Raise the flash] is displayed, move the [2] switch to raise the flash. It will fire when shooting. If you prefer not to use the flash, push it down with your finger, into the camera.















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.

 The flash firing during shots indicates that the camera has automatically attempted to ensure optimal colors in the main subject and background (Multi-area White Balance).

Shooting in Hybrid Auto Mode

Still Images Movies

You can make a short movie of the day just by shooting still images. The camera records 2 - 4-second clips of scenes before each shot, which are later combined in a digest movie.



Enter [💦] mode.

• Follow step 2 in "Shooting (Smart Auto)" (Q33) and choose [



2 Compose the shot.

- Follow steps 3 4 in "Shooting (Smart Auto)" (233) to compose the shot and focus.
- For more impressive digest movies, aim the camera at subjects about four seconds before shooting still images.

3 Shoot.

- Follow step 4 in "Shooting (Smart Auto)" (^{[[]}33) to shoot a still image.
- The camera records both a still image and movie clip. The clip, which ends with the still image and a shutter sound, forms a single chapter in the digest movie.
- Battery life is shorter in this mode than in [AUTO] mode, because digest movies are recorded for each shot.
- A digest movie may not be recorded if you shoot a still image immediately after turning the camera on, choosing [2] mode, or operating the camera in other ways.
- Sounds and vibrations from operating the camera will be recorded in digest movies.
- Digest movie image quality is automatically set to [¹HD 23077] for NTSC or [¹HD 23077] for PAL and cannot be changed ([1 160).
- Sounds are not played when you press the shutter button halfway or trigger the self-timer (^[]164).
- Digest movies are saved as separate movie files in the following cases even if they were recorded on the same day in [mode.
 - The digest movie file size reaches approximately 4 GB, or the total recording time reaches approximately 16 minutes and 40 seconds.
 - The digest movie is protected (📖 113).
 - Daylight saving time ($\square 20)$ or time zone ($\square 162)$ settings are changed.
 - A new folder is created (Q159).
- Recorded shutter sounds cannot be modified or erased.
- If you prefer to record digest movies without still images, adjust the setting in advance. Choose MENU (□29) ▶ [1]7] tab ▶ [Digest Type] ▶ [No Stills].
- Individual chapters can be edited (^[]126).

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Digest Movie Playback

Display a still image shot in [3] mode to play the digest movie created on the same day, or specify the date of the digest movie to play (106).

Still Images/Movies

If the camera makes no operating sounds, it may have been turned on while holding down the [INFO.] button. To activate sounds, press the **[MFNU]** button, choose [Mute] on the **[**§3] tab, and then choose [Off]

Still Images

- A blinking [9] 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 "Camera" (204).
- 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" (Q205).
- 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.
- No shutter sound is played when "Sleeping" and "Sleeping Babies" icons (237) are displayed.
- 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 (254).

Movies



Before movie recording, lower the flash with your finger. During recording, keep your fingers away from the microphone (1). Leaving the flash raised, or blocking the microphone may prevent audio from being recorded or may cause the recording to sound muffled.



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Auto Mode / Hybrid Auto Mode

- 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, set Dynamic IS to [Low] (452).

Audio is recorded in stereo.

- Distorted audio caused by recording when the wind is strong can be reduced. However, the recording may sound unnatural when this option is used when there is no wind. When the wind is not strong, choose MENU (□29) ► [07] tab ► [Wind Filter] ► [Off] ([]70).
- During movie recording, lens operating noises from auto focusing may also be recorded.
Scene Icons

Still Images Movies

In [ATT] and [AUTO] modes, 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. Depending on the scene, continuous images may be shot (\square 38).

Cubicot	Background				
Subject	Normal	Backlit	Dark*1	Sunsets	Spotlights
People	! *2	*3		-	À
Moving People	• *3	*3	-	-	-
Shadows on Face	2*2	-	-	-	-
Smiling	2 *3	*3	-	-	-
Sleeping	* 2	2 2*3	-	-	-
Babies	* 3	@ ?*3	-	-	-
Smiling Babies	€ *3	*3	-	-	-
Sleeping Babies	() *2	@ ?*3	-	-	-
Moving Children	2 =*3	* 3	-	-	-
Other Subjects	AIII*2	*3)	*	
Other Moving Subjects	1 *3	*3	_	-	_
Other Close-Range Subjects	* 2	*3	-	_	

*1 Tripod used.

- *2 The background color of icons is light blue when the background is a blue sky, dark blue when the background is dark, and gray for all other backgrounds.
- *3 The background color of icons is light blue when the background is a blue sky, and gray for all other backgrounds.

- The background color of [], [], [], [], [], and [] is dark blue, and the background color of [] is orange.
- For movies, only People, Other Subjects, and Other Close-Range Subjects icons are displayed.
- In [A] mode, icons are only displayed for People, Shadows on Face, Other Subjects, and Other Close-Range Subjects.
- For self-timer shots, icons are not displayed for the following subjects: moving, smiling, or sleeping people; smiling or sleeping babies; moving children; and other moving subjects.
- Icons are not displayed for smiling or sleeping subjects and moving children in drive modes other than [A]] ((138, (142)) and when [Hg Lamp Corr.] is set to [On] and scenes are automatically corrected ((148)).
- Backlit icons are not displayed for moving children and smiling people when the flash is set to [4^A].
- Icons for babies (including smiling and sleeping babies) and moving children are displayed when [Face ID] is set to [On] and faces of registered babies (less than two years old) or children (2 – 12 years old) are detected (Q44). Confirm beforehand that the date and time are correct (Q20).

Т • (

Try shooting in $[\mathbf{P}]$ mode (\square 73) 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.

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Continuous Shooting Scenes

If the icon for one of the following scenes (in table's left column) is displayed when you shoot a still image, the camera shoots continuously. If the icon for one of the following scenes (in table's left column) is displayed when you press the shutter button halfway, one of the icons [di], [u], or [] is displayed to inform you that the camera shoots continuously.

Smiling (including Babies)	් Consecutive images are captured, and the camera analyzes details such as facial expressions to save the image determined to be the best.
Sleeping (including Babies)	Beautiful shots of sleeping faces, created by combining consecutive shots to reduce camera shake and image noise. The AF-assist beam and the flash will not fire, and the shutter sound will not be played.
Children	So you don't miss a photo opportunity of children who move around, the camera will capture three consecutive images for each shot.

In some scenes, expected images may not be saved, and images may not look as expected.

· Focus, image brightness, and color are determined by the first shot.

When you want to shoot single images only, touch [Q], choose [A] in the menu, and then select [

Image Stabilization Icons

lma	ge Stabilization Icons	Before Use	
Ontim	Still Images Movies Image stabilization for the shooting conditions (Intelligent IS) is	Basic Guide	
	atically applied, and the following icons are displayed.	Advanced Guide	
((1))	Image stabilization for still images (Normal)		
((→))	Image stabilization for still images when panning (Panning)*	Camera Basics	
((*)) ((*))	Image stabilization for angular camera shake and shift-shake in macro shots (Hybrid IS). For movies, [《論》 is displayed and [《書] image stabilization is also	Auto Mode / Hybrid Auto Mode	
(#)	applied. Image stabilization for movies, reducing strong camera shake, as when recording while walking (Dynamic)	Other Shooting Mode	s
(Image stabilization for slow camera shake, such as when recording movies at telephoto (Powered)	Tv, Av, M, and C Mode)
((只)) ((只))	No image stabilization, because the camera is mounted on a tripod or held still by other means. However, during movie recording, [((f))] is displayed, and image stabilization to counteract wind or other sources of vibration is used (Tripod IS).	Playback Mode	
* Disnl	aved when you pan, following moving subjects with the camera. When you	Wi-Fi Functions	
follow subjects moving horizontally, image stabilization only counteracts vertical subjects moving vertically, image stabilization stops. Similarly, when you follow subjects moving vertically, image stabilization only counteracts horizontal camera			
shake		Accessories	
	 Yo cancel image stabilization, set [IS Mode] to [Off] (□ 52). In this case, an IS icon is not displayed. In [☆ I mode, no [(→)) icon is displayed. 	Appendix	
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On-Screen Frames

Still Images Movies

In [AUTO] mode, 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 (^{[[]}73) if no frames are displayed, if frames are not displayed around desired subjects, or if frames are displayed on the background or similar areas.
 - To choose subjects to focus on, touch the desired subject on the screen.
 [^L_i, ¹_i] is displayed, and the camera enters Touch AF mode (¹_iA86). Pressing the shutter button halfway will display a blue frame, and the camera will keep the subject in focus and image brightness adjusted (Servo AF).



- 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 (QQ90), the maximum zoom factor can be achieved by following step 1.

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Shooting at Preset Focal Lengths (Step Zoom)

Still Images Movies

Shoot at common focal lengths in a range of 28-84 mm (35mm film equivalent).



• To change the focal length from 28 to 35 mm, turn the [1] ring counterclockwise until it clicks. Turn the [1] ring counterclockwise to zoom in or clockwise to zoom out.

Step zoom is not available when recording movies even if you turn the [1] ring.



When you are using digital zoom ($\square39$), you cannot adjust the zoom factor by turning the [()] ring counterclockwise. However, you can set the focal length to 84 mm by turning it clockwise.

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.



See On



- Press the [[®]] button, choose [^h] in the menu, and then choose [^h] (¹28).
- Once the setting is complete, [\u00fc10] 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 selftimer 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 [C); in step 1.

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 You can also cancel shooting after the timer begins by touching the screen.

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.

- - Once the setting is complete, [2] is displayed.
- Follow step 2 in "Using the Self-Timer" (QQ40) to shoot.

Customizing the Self-Timer

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

1 Choose [62].

displayed.

 $(\square 40)$ to shoot.

For movies recorded using the self-timer, recording begins after

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

 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.)

your specified delay time, but specifying the number of shots has

[INFO] button.

2 Configure the setting.

Still Images Movies

Following step 1 in "Using the Self-Timer"

• Touch the delay time or number of shots

• Touch [4][1] to choose a value, and then

• Once the setting is complete, [6] is

Follow step 2 in "Using the Self-Timer"

to choose one of these items.

press the [] button twice.

(40), choose [c] and press the

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no effect.

memory card becomes full.

Shooting by Touching the Screen (Touch Shutter)

Still Images Movies

With this option, instead of pressing the shutter button, you can simply touch the screen and release your finger to shoot. The camera will focus on subjects and adjust image brightness automatically.



Enable the touch-shutter function.

• Touch [m] and change it to [].

2 Shoot.

- Touch the subject on the screen to take the picture.
- The camera shoots, as a shutter sound is plaved.
- To cancel touch shutter, choose [min] in step 1.

Even while the shot is displayed, you can prepare for the next shot by touching [].

You can also configure touch-shutter settings by choosing MENU (□29) ► [□2] tab ► [Touch Shutter]. To hide the Touch Shutter setting icon, set [Touch shutter icon] to [Off].

Continuous Shooting

Still Images Movies

In [AUTO] mode, hold the shutter button all the way down to shoot continuously. For details on the continuous shooting speed, see "Camera" (Q204).



1 Configure the setting.

- Press the [] button, choose [
- Once the setting is complete, [] is displayed.





2 Shoot.

- Hold the shutter button all the way down to shoot continuously.
- During continuous shooting, the focus, exposure, and colors are locked at the position/level determined when you pressed the shutter button halfway.
 - Cannot be used with the self-timer (40).
 - 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.
 - Multi-area White Balance (233) is not available. Also note that these features are not available.
 - [Hg Lamp Corr.] (48)
 - [Blink Detection] (251)
 - With Touch Shutter (242), the camera shoots continuously while you touch the screen. Focus and exposure during continuous shooting remain constant, after they are determined for the first shot.

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Image Display during Playback

Each set of images shot continuously is managed as a single group, and only the first image in that group will be displayed. To indicate that the image is part of a group, [See \square] is displayed in the upper left of the screen.

• If you erase a grouped image (
115), all images in the group are also erased. Be careful when erasing images.

- Grouped images can be played back individually ([110) and ungrouped ([110).
- Protecting (
 ¹
 ¹¹³) a grouped image will protect all images in the group.
- Grouped images can be viewed individually when played back using Image Search (
 107). In this case, images are temporarily ungrouped.
- The following actions are not available for grouped images: editing Face ID information (Д111), magnifying (Д112), tagging as favorites (Д118), editing (Д121), printing (Д175), setting up individual image printing (Д179), or adding to a photobook (Д181). To do these things, either view grouped images individually (Д110) or cancel grouping (Д110) first.

Using Face ID

If you register a person ahead of time, the camera will detect that person's face, and prioritize focus, brightness, and color for that person when shooting. In [AUTO] mode, the camera can detect babies and children based on registered birthdays and optimize settings for them when shooting.

This function also enables you to find shots you have taken that include registered people (Q108).

Personal Information

- Information such as images of a face (face info) registered with Face ID, and personal information (name, birthday) will be saved on the camera. Additionally, when registered people are detected, their names will be recorded in still images. When using the Face ID function, be careful when sharing the camera or images with others, and when posting images online where many others can view them.
- When disposing of a camera or transferring it to another person after using Face ID, be sure to erase all information (registered faces, names, and birthdays) from the camera (447).



Registering Face ID Information

You can register information (face info, names, and birthdays) for up to 12 people to use with Face ID.









Access the setting screen.

- Press the [MENU] button, choose [Face ID Settings] on the [1] tab, and then press the [3] button (1] 29).
- Touch [Add to Registry] to choose it, and then press the [[®]] button.

- Choose [Add a New Face] and press the [[®]] button.
- Edit Profile
 Name
 Amy
 Birthday
 Birthday
 08.08.1986
 XM00 5 Save

Add to Registry





After [Register?] is displayed, touch [OK].
The [Edit Profile] screen is displayed.

3 Register the person's name and

Touch the name text box to access the

To register a birthday, on the [Edit Profile]

keyboard, and then enter the name

screen, touch the birthday text box.

• When finished, press the [P] button.

After a message is displayed, touch [Yes].

• To register up to 4 more points of face

information (expressions or angles).

recognized if you add a variety of face

information. In addition to a head-on

angle, add a slight side angle, a shot

when smiling, and shots inside and

Registered faces are more easily

Touch an option to choose it.

5 Continue registering face

4 Save the settings.

Touch [Save].

information.

repeat step 2.

outside.

Touch [A][V] to specify the date.

birthday.

(🛄 30).



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2 Register face information.

- Aim the camera so that the face of the person you want to register is inside the gray frame at the center of the screen.
- A white frame on the person's face indicates that the face is recognized. Make sure a white frame is displayed on the face, and then shoot.
- If the face is not recognized, you cannot register face information.

The flash will not fire when following step 2.

- If you do not register a birthday in step 3, Babies or Children icons (\$\$\overline\$37\$) will not be displayed in [\$\$AUTO] mode.
- You can overwrite registered face info, and add face info later if you have not filled all 5 face info slots (QQ44).

Shooting

If you register a person ahead of time, the camera will prioritize that person as the main subject, and optimize focus, brightness, and color for that person when shooting.



- When you point the camera toward people, the names of up to 3 registered people will be displayed when they are detected.
- Shoot.
- Displayed names will be recorded in still images. The names of detected people (maximum total of 5) will be recorded, even if the names are not displayed.

People other than those registered may be mistakenly detected as the registered person if they share similar facial features.

- Registered people may not be correctly detected if the captured image or scene differs drastically from the registered face information.
- If a registered face is not detected, or not easily detected, overwrite registered information with new face info. Registering face info right before shooting will allow for easier detection of registered faces.
- If a person is mistakenly detected as another person and you continue shooting, you can edit or erase the name recorded in the image during playback ([2]111).
- Because faces of babies and children change quickly as they grow, you should update their face info regularly (244).
- Names will still be recorded in images even if you clear the [Shooting Info] check box in "Customizing the Information Displayed" (Q99) so that the names are not displayed.
- If you don't want names to be recorded in images, choose [Face ID Settings] on the [2] tab, choose [Face ID], and then choose [Off].
- You can check names recorded in images in the playback screen (simple information display) (D105).
- In [] mode, names are not displayed on the shooting screen, but they will be recorded in still images.
- Names recorded in continuous shooting (□42) continue to be recorded in the same position as the first shot, even if subjects move.

Checking and Editing Registered Information



Access the [Check/Edit Info] screen.

 Following step 1 in "Registering Face ID Information" (244), choose [Check/ Edit Info].







2 Choose a person to check or edit their information.

• Touch the image of the person whose information you want to check or edit.



- To check a name or birthday, touch [Edit Profile]. On the screen displayed, you can edit the name or birthday as described in step 3 of "Registering Face ID Information" (Q44).
- To check face information, touch [Face Info List]. To erase face information, touch [Erase] on the screen displayed, and then touch the face information to erase. After [Erase?] is displayed, touch [OK].

) • Even if you change names in [Edit Profile], the names recorded in previously shot images will remain the same.

Overwriting and Adding Face Information

You can overwrite existing face information with new face info. You should update face information regularly, especially with babies and children, as their faces change quickly as they grow.

You can also add face information when all 5 face info slots have not been filled.



Access the [Add Face Info] screen.

 Following step 1 in "Registering Face ID Information" (244), choose [Add Face Info].



2 Choose a person to overwrite their face info.

- Touch the name of the person whose face info you want to overwrite.
- If five items of face info have already been registered, a message will be displayed. Touch [OK].
- If less than five items of face info are registered, go to step 4 to add face information.
- **3** Choose the face info to overwrite.
- Touch the face info you want to overwrite.

4 Register face information.

- Follow step 2 in "Registering Face ID Information" (244) to shoot, and then register the new face information.
- Registered faces are more easily recognized if you add a variety of face information. In addition to a head-on angle, add a slight side angle, a shot when smiling, and shots inside and outside.
- You cannot add face information if all 5 information slots are filled. Follow the steps above to overwrite face information.
- You can follow the above steps to register new face info when there is at least one slot open; however, you cannot overwrite any face information. Instead of overwriting face info, first erase unwanted existing info (Q45), and then register new face information (Q44) as needed.

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Select face info to overwrite



Erasing Registered Information

You can erase information (face info, names, and birthdays) registered to Face ID. However, names recorded in previously shot images will not be erased.



Access the [Erase Info] screen.

• Follow step 1 in "Registering Face ID Information" (44) and choose [Erase Info].



2 Choose a person to erase their information.

- Touch the name of the person to erase.
- After [Erase?] is displayed, touch [OK].

If If

If you erase a registered person's info, you will not be able to display their name (Q107), overwrite their info (Q111), or search for images that include them (Q108).

• You can also erase names in image information (Q111).

Image Customization Features

Changing the Aspect Ratio

16:9 3:2 4:3 1:1

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

- Press the [[®]] button, choose [3:2] in the menu, and choose the desired option (¹28).
- Once the setting is complete, the screen aspect ratio will be updated.

Still Images Movies

 To restore the original setting, repeat this process but choose [3:2].

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

Not available in [3] mode.

You can also configure this setting by choosing MENU (□29)
 [1] tab [Still Image Aspect Ratio].

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Changing Image Quality

Still Images Movies

Choose from 4 levels of image quality. For guidelines on how many of each kind of image can fit on a memory card, see "Number of Shots per Memory Card" (2205).



- Press the (A) button, choose [A] in the menu, and choose the desired option (A)28).
- The option you configured is now displayed.
- To restore the original setting, repeat this process but choose []].

Guidelines for choosing image quality based on paper size (for 3:2 images)

A L	A2 (16.5 x 23.4 in.)
4 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

- Not available in [
- You can also change the image quality by accessing MENU (□29) ▶ [□1] tab ▶ [Image quality] (□90).

Correcting Greenish Image Areas from Mercury Lamps

Still Images Movies

In [AUTO] mode, subjects or background in shots of evening scenes illuminated by mercury lamps may appear to have a greenish tinge. This greenish tinge can be corrected automatically when shooting, using Multi area White Balance.





- Press the [MENU] button, choose [Hg Lamp Corr.] on the [C6] tab, and then choose [On] (Q29).
- Once the setting is complete, [A] is displayed.
- To restore the original setting, repeat this process but choose [Off].

• After set

After you are finished shooting under mercury lamps, you should set [Hg Lamp Corr.] back to [Off]. Otherwise, green hues not caused by mercury lamps may be corrected by mistake.

- Try taking some test shots first to make sure you obtain the desired results.
- In continuous shooting (¹/₄42), this setting is set to [Off] and cannot be changed.

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Changing Movie Image Quality

Still Images Movies

Adjust movie image guality (image size and frame rate). The frame rate indicates how many frames are recorded per second, which is determined automatically based on the NTSC or PAL setting (160). For guidelines on the total recording time for movies at each level of image guality that will fit on a memory card, see "Recording Time per Memory Card" (Q206).



- Press the [@] button, choose the movie quality menu item, and then choose the desired option ($\square 28$).
- The option you configured is now displayed.



For NTSC Video

Image Quality	Number of Recording Pixels	Frame Rate	Details	
EFID 59.94P*	1920 x 1080	59.94 fps	For shooting in Full HD. [朔辺辺] enables movies with smoother motion.	
EFHD 29.97P	1920 x 1080	29.97 fps		
EFHD 23.98P	1920 x 1080	23.98 fps		
^E HD 29.97P	1280 x 720	29.97 fps	For shooting in HD.	
[∎] VGA 29.97P	640 x 480	29.97 fps	For shooting in standard definition.	

Image Number of Recording Frame Rate Details Quality Pixels 1FID 50.00P* 1920 x 1080 50.00 fps For shooting in Full lнd. 1920 x 1080 25.00 fps IFHD 25.00P 1280 x 720 25.00 fps For shooting in HD. HD 25.00P For shooting in VGA 25.00P 640 x 480 25.00 fps standard definition.

* Available in [*] or [*] mode.

For PAL Video



After repeated recording in [4740 59,94P] or [4740 50,00P] mode, movie recording at that level of quality may be temporarily unavailable (even if you press the movie button) until the camera has cooled down. To continue recording in [#[]] 29,97P] or [#[]] 25,00P] mode instead, touch [Yes] after the notification message is displayed. Otherwise, turn the camera off and wait a while for it to cool down before you resume recording.

- Black bars (displayed on the left and right in [\$16] 29.97P] and [¹VG 25,00P] modes and on the top and bottom in [¹III] 59,94P]. [#FHD 29.97P], [#FHD 23.98P], [#HD 29.97P], [#FHD 50.00P], [#FHD 25.00P], and [H] 2500 modes) indicate image areas not recorded.
- You can also configure this setting by choosing MENU (22) ▶ [108] tab ▶ [Movie Quality].

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* Available in [P, or [P, mode.

Helpful Shooting Features

Magnifying the Area in Focus

enlarge the portion of the image in focus in the AF frame.

Still Images Movies

Using the Electronic Level

Still Images Movies

An electronic level can be displayed on the screen when shooting as a quideline to determine if the camera is level.



Display the electronic level.

Press the INFO1 button to display the electronic level



2 Check the focus.

You can check the focus by pressing the shutter button halfway, which will

Configure the setting.

then choose [On] (29).

Press the [MFNI] button, choose

[AF-Point Zoom] on the [3] tab, and

- Press the shutter button halfway. The face detected as the main subject is now magnified.
- To restore the original setting, choose [Off] in step 1.
- The area in focus is not magnified in the following cases when the • shutter button is pressed halfway.
 - If a face was not detected, if the person is too close to the camera and their face is too large for the screen, or if the camera detects subject movement
 - When digital zoom is used (239)
- Not available in [] mode.

- Before Use **Basic Guide** Advanced Guide Camera Basics Auto Mode / Hybrid Auto Mode **Other Shooting Modes** P Mode Tv. Av. M. and C Mode Playback Mode Wi-Fi Functions Setting Menu Accessories Appendix Index



õ

- **2** Level the camera as needed.
- Level the camera so that the center of the electronic level is green.
- If the electronic level is not displayed in step 1, press the [MENU] button and check the setting in [C1] tab ► [Shooting] information display].
- Tilting the camera too far forward or backward will prevent you from using the electronic level, which will turn gray.
- The electronic level is not displayed during movie recording.
- If you hold the camera vertically, the orientation of the electronic level will be updated automatically to match the camera orientation.
- · Calibrate the electronic level if it seems ineffective in helping you level the camera (1161).
- Not available in [

Checking for Closed Eyes

Deactivating Auto Level



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

Configure the setting.

choose [On] (29).





2 Shoot.

• [12] flashes when the camera detects a person whose eyes are closed.

• Press the [MENU] button, choose [Blink

Detection] on the [7] tab, and then

Still Images Movies

• To restore the original setting, choose [Off] in step 1.



When you have specified multiple shots in [C] mode, this • function is only available for the final shot.

- A frame is displayed around people whose eyes are closed when you have selected [2 sec.], [4 sec.], [8 sec.], or [Hold] in [Display Time] (🛄54).
- This feature is not available during continuous shooting in [mode (238).
- This feature is not available in continuous shooting mode (42).



Changing the IS Mode Settings

Deactivating Image Stabilization

Still Images Movies

When the camera is held still (as when shooting from a tripod), you should set image stabilization to [Off] to deactivate it.



• Press the [MENU] button, choose [IS Settings] on the [14] tab, and then press the $[\mathbb{R}]$ button ($\mathbb{Q}29$).



2 Configure the setting.

Touch [IS Mode], and then choose an option (229).

Continuous	Optimal image stabilization for the shooting conditions is automatically applied (Intelligent IS) (238).
Off	Deactivates image stabilization.

Recording Movies with Subjects at the Same Size Shown before Shooting

(2251).

Settings] screen.

[Low] (Q29).

at the same size shown before shooting.

(NTSC) or [EVG 2500P] (PAL).

vou can reduce image stabilization and cancel Auto Level.

of significant camera shake.

Correct camera shake when

•

shooting movies

Low

(252).

IS Settings

Dynamic IS

Before Use **Basic Guide** Still Images Movies Normally, once movie recording begins, the image display area changes Advanced Guide and subjects are enlarged to allow for image straightening and correction To record movies with subjects at the same size shown before shooting. **Camera Basics** Auto Mode / • Set [P. Auto level] to [Disable] as Hybrid Auto Mode described in "Deactivating Auto Level" **Other Shooting Modes** Follow step 1 in "Deactivating Image Stabilization" (252) to access the [IS P Mode • Choose [Dynamic IS], and then choose Tv. Av. M. and C Mode Playback Mode You can also set [IS Mode] to [Off], so that subjects are recorded [Dvnamic IS] is not available when [IS Mode] is set to [Off] Wi-Fi Functions • Only [Standard] is available when the movie quality is [10,000] Setting Menu Accessories Appendix Index



Customizing Camera Operation

Customize shooting functions on the [1] tab of the menu screen as follows.

For instructions on menu functions, see "Using the Menu Screen" (\square 29).

Preventing the AF-Assist Beam from Firing

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.

- AF-assist Beam On Off
- Press the [MENU] button, choose [AF-assist Beam] on the [1]3] tab, and then choose [Off].
- To restore the original setting, repeat this process but choose [On].

Preventing the Red-Eye Reduction Lamp from Lighting Up

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.

Flash Settings

Red-Eve Lamp

Off

- **1** Access the [Flash Settings] screen.
- Press the [MENU] button, choose [Flash Settings] on the [15] tab, and then press the [3] button.
- 2 Configure the setting.
- Choose [Red-Eye Lamp], and then choose [Off].
- To restore the original setting, repeat this process but choose [On].

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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 [1] tab, and then press the [3] button.

Display Time	
Off	
Quick	
2 sec.	
4 sec.	
8 sec.	
Hold	
	SET OK

2 Configure the setting.

- Choose [Display Time], and then 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. **1** Set [Display Time] to [2 sec.], [4 sec.], [8 sec.], or [Hold] (254). **2** Configure the setting. Review image after shooting Choose [Display Info], and then choose Display Info the desired option. Detailed Shooting information will • To restore the original setting, repeat this not display after shooting process but choose [Off].

Off	Displays only the image.
Detailed	Displays shooting details (🛄 189).

- When [Display Time] (254) is set to [Off] or [Quick], [Display Info] is set to [Off] and cannot be changed.
- By pressing the [NFO] button while an image is displayed after shooting, you can switch the display information. Note that the settings of [Display Info] are not changed.

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Other Shooting Modes

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



Applying Effects Automatically (Creative Shot)

Still Images Movies

Enjoying a Variety of Images from Each Shot

The camera determines the subject and shooting conditions, automatically applying special effects and recomposing the shot to emphasize the subject. Six still images are recorded for each shot. You can capture multiple still images with effects using camera-determined settings.

f Enter [[]]] mode.

• Set the mode dial to [[]].

- 2 Shoot.
- Press the shutter button all the way down. As you shoot, the shutter sound is played three times.
- After the six images are displayed in succession, they are displayed simultaneously for about two seconds.
- To keep the images displayed until you press the shutter button halfway or press the [MENU] button, press the [I] button while the images are displayed. You can choose an image for full-screen display by touching the image and then pressing the [I] button.
- To return to the original display, press the [MENU] button.
- Shooting will take some time when the flash fires, but hold the camera steady until the shutter sound is played three times.
 - The six images are managed together as a group (¹¹¹).
- Simultaneous display of the six images as shown in step 2 is only available immediately after you shoot.

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Choosing Effects

You can choose effects for images captured in $[\Box]$ mode.



• After choosing [1] mode, turn the [] ring to choose the effect.

ି Auto	All effects
ିମ୍ନ Retro	Images resemble old photos
Mi Monochrome	Images are generated in one color
ି Special	Bold, distinctive-looking images
N Natural	Subdued, natural-looking images

Recording Movies with a Variety of Effects

Let the camera determine subjects and shooting conditions when you record movies, and filters and effects such as playback in slow or fast motion will be added automatically. Once you have recorded a few movies, up to four are automatically combined to create a Creative Shot movie of 15 – 25 seconds. Note that sound is not recorded in this mode.



Enter [

• Set the mode dial to [



- Press the movie button. Recording begins, and a bar is displayed to indicate the elapsed time.
- Recording stops automatically in 3 – 6 seconds

3 Record the second to fourth movies. Refore Use Repeat step 2 three times to record four movies. **Basic Guide** \mathbf{T} Even if you do not record four movies that day, a Creative Shot Advanced Guide movie will be saved as a separate file once the date changes. Camera Basics Effects are generally applied consistently to movies 1 - 4, but you Auto Mode / can also change the effect in each movie (156). Hvbrid Auto Mode Individual chapters can be edited (126). Other Shooting Modes **Creative Shot Movie Plavback** P Mode You can choose and play back Creative Shot movies recorded in [CI] mode (🛄 106). Tv. Av. M. and C Mode Playback Mode Wi-Fi Functions Setting Menu Accessories Appendix



Specific Scenes

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







**

Ø

Nostalgic

Handheld NightScene

6.1

Fish-eve Effec

3

Portrait

HDR

High Dynamic Range

2 Choose a shooting mode.

- Touch [♣], and then touch [▲][▼] or drag up or down on the screen to choose a shooting mode.
- To confirm your choice, touch [OK].

3 Shoot.



- Shooting Portraits (Portrait)
 - Still Images Movies
- Take shots of people with a softening effect.



Shooting Evening Scenes without Using a Tripod (Handheld Night Scene) Still Images Movies

- Beautiful shots of evening scenes or portraits with evening scenery in the background, without the need to hold the camera very still (as with a tripod).
- A single image is created by combining consecutive shots, reducing camera shake and image noise.
- Shooting Fireworks (Fireworks)

Still Images Movies

- Vivid shots of fireworks.
- Subjects appear larger in [[1]] mode compared to other modes.
- In [1] mode, shots may look grainy because the ISO speed (\$\$\overline\$\$\$75) is increased to suit the shooting conditions.
- Because the camera will shoot continuously in [1] mode, hold it steady while shooting.
- In [1] mode, excessive motion blur or certain shooting conditions may prevent you from obtaining the desired results.
- In [mode, mount the camera on a tripod or take other measures to keep it still and prevent camera shake. In this case, you should set [IS Mode] to [Off] (\$\overlimits_52\$).
- When you use a tripod for evening scenes, shooting in [AUTO] mode instead of [1] mode will give better results ([1]33).
- You can also choose the shooting mode by accessing MENU (□29) ▶ [□1] tab ▶ [Rec. Mode].
- In [iii] mode, although no frames are displayed when you press the shutter button halfway, optimal focus is still determined.

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Applying Special Effects

Add a variety of effects to images when shooting.



- 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 [2] and [2] modes, try taking some test shots first, to make sure you obtain the desired results.

You can also choose the shooting mode by accessing MENU ($\square 29$) \triangleright [\frown 1] tab \triangleright [Rec. Mode].

Shooting High-Contrast Scenes (High Dynamic Range)

Still Images Movies

Three consecutive images are captured at different brightness levels each time you shoot, and the camera combines image areas with optimal brightness to create a single image. This mode can reduce the washedout highlights and loss of detail in shadows that tend to occur in highcontrast shots.

1 Choose [HDR].

 Follow steps 1 – 2 in "Specific Scenes" (^[]57) and choose [HDR].

2 Shoot.



 Hold the camera steady as you shoot. When you press the shutter button all the way down, the camera will take three shots and combine them.



Excessive motion blur or certain shooting conditions may prevent you from obtaining the desired results.

- If excessive camera shake interferes with shooting, 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 (^[2]₂₅₂).
- Any subject movement will cause images to look blurry.
- There will be a delay before you can shoot again, as the camera processes and combines the images.
- [ND] may be displayed when you press the shutter button halfway in bright conditions, indicating automatic adjustment for optimal image brightness.

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Adding Artistic Effects



- Follow steps 1 2 in "Specific Scenes" (\$_57\$) and choose [HDR].
- Turn the [] ring to choose an effect.
- A preview is shown of how your shot will look with the effect applied.

Natural	Images are natural and organic.
Art Standard	Images resemble paintings, with subdued contrast.
Art Vivid	Images resemble vivid illustrations.
Art Bold	Images resemble oil paintings, with bold edges.
Art Embossed	Images resemble old photos, with bold edges and dark ambiance.

Shooting with Faded Colors (Nostalgic)

Still Images Movies

This effect makes colors look faded and images look weathered, as in old photographs. Choose from five effect levels.

Choose [9].

 Follow steps 1 – 2 in "Specific Scenes" (^{[[]}57) and choose [[@]].



2 Choose an effect level.

- Turn the [()] ring to choose an effect level.
- A preview is shown of how your shot will look with the effect applied.

- Before Use Try taking some test shots first, to make sure you obtain the desired results **Basic Guide** Colors will look faded on the shooting screen, but the image aging Advanced Guide effect is not shown. Review the image in Playback mode to see the effect (103). Camera Basics • The image aging effect is not shown in movies. Auto Mode / Hvbrid Auto Mode Shooting with a Fish-Eye Lens Effect Other Shooting Modes (Fish-Eye Effect) Still Images Movies P Mode Shoot with the distorting effect of a fish-eye lens. Tv, Av, M, and C Mode 1 Choose [3] Follow steps 1 – 2 in "Specific Scenes" Playback Mode (257) and choose [**2** Choose an effect level. Wi-Fi Functions ŝ Q • Turn the [1] ring to choose an effect Setting Menu level. A preview is shown of how your shot will look with the effect applied. Accessories 3 Shoot. Appendix Try taking some test shots first, to make sure you obtain the Index desired results.

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.



Choose [赳].

- Follow steps 1 2 in "Specific Scenes" (^[]57) 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 [INFO.] button.
- Move the zoom lever to resize the frame, and touch the screen or drag the white frame up or down to move it.



3 For movies, choose the movie playback speed.

• On the screen in step 2, turn the [()] ring to choose the speed.

4 Return to the shooting screen and shoot.

 Press the [INFO.] 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 [) button in step 2. Touch the screen to move the frame. To return the frame to horizontal orientation, press the [) button again.
- Holding the camera vertically will change the orientation of the frame.
- Movie image quality is [EIGA] at an aspect ratio of [4:3] and (EIHD) at an aspect ratio of [16:9] ((Q47). 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.



 Follow steps 1 – 2 in "Specific Scenes" (^{[[]}57) and choose [^[]].



2 Choose a color tone.

- Turn the [) ring to choose a color tone.
- 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.

Making Subjects Stand Out (Background Defocus)

Still Images Movies

You can shoot subjects so that they stand out from the background. Two consecutive images are captured with settings optimized for background defocus. The background is defocused through lens effects and subject- and scene-based image processing.

1 Choose [A].

 Follow steps 1 – 2 in "Specific Scenes" (^[]57) and choose [^{*}].

2 Shoot.



 Hold the camera steady as you shoot. Two consecutive images are captured when you press the shutter button all the way down.

• A blinking [] icon indicates that the images could not be processed.

 Excessive motion blur or certain shooting conditions may prevent you from obtaining the desired results.



- There may be a delay after shooting before you can shoot again.
- To adjust the effect level, turn the [) ring.

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Shooting with a Soft Focus Effect

Shooting in Monochrome

Still Images Movies

This function allows you to shoot images as if a soft focus filter were attached to the camera. You can adjust the effect level as desired.



Choose [2].

Choose an effect level.

look with the effect applied.

Follow steps 1 – 2 in "Specific Scenes" (157) and choose [2].

Turn the [i]) ring to choose an effect

A preview is shown of how your shot will



2 Choose a color tone.

(157) and choose [

1 Choose I

• Turn the []) ring to choose a color tone.

Follow steps 1 – 2 in "Specific Scenes"

Still Images Movies

• A preview is shown of how your shot will look with the effect applied.

3 Shoot.

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

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

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3 Shoot.

level.

2

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

Special Modes for Other Purposes

Shooting Starry Skies (Star)

Shooting People against Starry Skies (Star Portrait)

Still Images Movies

Capture beautiful shots of people against starry skies. After initially firing the flash to capture the person, the camera shoots twice without flash. The three images are combined into a single image and processed to make the stars more prominent.

For details on the flash range, see "Camera" (Q204).



Choose [🛐].

- Follow steps 1 2 in "Specific Scenes" (\$\overline\$57\$) and choose \$\verline\$1, and then press the \$\verline\$1NFO\$] button.
- Touch []], and then press the []] button.
- Zoom is set to maximum wide angle and cannot be adjusted.

2 Raise the flash.

Move the [\$] switch.

3 Secure the camera.

 Mount the camera on a tripod or take other measures to keep it still.







 Under some shooting conditions, images may not look as expected.

4 Shoot.

lamp blinks.

two seconds

single image.

5

 Press the shutter button. The flash fires as the camera takes the first shot

Have the person stay still until the

The person you are shooting should stay

All the shots are combined to create a

still until the lamp blinks three times after

the third shot, which may take up to about

 The second and third shots are now taken, without firing the flash.

- For better shots, have the person stand away from illumination such as street lights, and make sure the flash is raised.
- There will be a delay before you can shoot again, as the camera processes the images.
- To avoid blurry shots, make sure the person you shoot in steps 4 – 5 stays still.

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- For easier viewing, try choosing MENU ▶ [¶2] tab ▶ [Night Display] ▶ [On] (□161) before shooting.
- To adjust subject brightness, try changing the flash exposure compensation (^[]288).
- To adjust background brightness, try changing the exposure compensation (Q74). However, images may not look as expected under some shooting conditions, and the person should stay still in steps 4 – 5, which may take up to about 15 seconds.
- To capture more stars and brighter starlight, choose MENU
 (□29) ▶ [10]6] tab ▶ [Star Portrait Settings] ▶ [Star Visibility]
 ▶ [Prominent]. However, images may not look as expected under some shooting conditions, and the person should stay still in steps 4 5, which may take up to about 8 seconds.
- To make stars brighter, choose MENU (□29) ► [16] tab ► [Star Emphasis] ► [Sharp]. To emphasize the bright stars in a starry sky, set [Star Emphasis] to [Soft]. This setting can produce eye-catching shots by enlarging bright stars while de-emphasizing dimmer stars. To disable starlight processing, select [Off].

Shooting Night Scenes under Starry Skies (Star Nightscape)

Still Images Movies

Capture impressive shots of starry skies above night scenes. Starlight in the image is automatically enhanced, making starry skies look beautiful.



1 Choose [27].

- Follow steps 1 2 in "Specific Scenes" (¹57) and choose [¹], and then press the [**INFO**] button.
- Touch [**M**], and then press the [**B**] button.
- Zoom is set to maximum wide angle and cannot be adjusted.

2 Secure the camera.

There will be a delay before you can shoot again, as the camera

- Mount the camera on a tripod or take other measures to keep it still and prevent camera shake.
- **3** Shoot.

processes the images.

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- For easier viewing, try choosing MENU ► [¶2] tab ► [Night Display] ► [On] (□161) before shooting.
- To make stars brighter, choose MENU (□29) ► [15] tab ► [Star Emphasis] ► [Sharp]. To emphasize the bright stars in a starry sky, set [Star Emphasis] to [Soft]. This setting can produce eye-catching shots by enlarging bright stars while de-emphasizing dimmer stars. To disable starlight processing, select [Off].

You can also choose the shooting mode by choosing in steps 1 – 2 of "Specific Scenes" (\$\$57), touching [\$\$60] to access the setting screen, touching [\$\$60], and then touching the same option or [\$\$60].

Shooting Star Trails (Star Trails)

Still Images Movies

Streaks created by the movement of stars through the sky are recorded in a single image. After determining the shutter speed and number of shots, the camera shoots continuously. A shooting session can last up to about two hours. Check the battery level in advance.



Choose [🛃].

- Follow steps 1 2 in "Specific Scenes" (\$\overline\$57\$) and choose \$\verline\$8, and then press the [INFO] button.
- Touch [🔊], and then press the [[®]] button.
- Zoom is set to maximum wide angle and cannot be adjusted.

2 Specify the duration of the shooting session.

Before Use

- Turn the [()] ring to choose the shooting duration.
- 3 Secure the camera.
- Mount the camera on a tripod or take other measures to keep it still.

4 Shoot.

- Press the shutter button all the way down. [Busy] is displayed briefly, and then shooting begins.
- Do not disturb the camera while shooting.
- To cancel shooting, press the shutter button all the way down again. Note that cancellation may take up to about 30 seconds.
- If the camera runs out of battery power, shooting stops and a composite image created from the images up to that point is saved.
- There will be a delay before you can shoot again, as the camera processes the images.
- For easier viewing, try choosing MENU ► [¥2] tab ► [Night Display] ► [On] (□161) before shooting.
- Try switching to manual focus mode (^[]⁸¹) to more accurately specify the focal position before shooting.
- You can also choose the shooting mode by choosing [2] in steps 1 2 of "Specific Scenes" (257), touching [INFO] to access the setting screen, touching [2], and then touching the same option or [SET].

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Shooting Movies of Star Movement (Star Time-Lapse Movie)

Still Images Movies

By recording a time-lapse movie that combines images shot at a specified interval, you can create movies with fast-moving stars. You can adjust the shooting interval and recording duration as needed.

Note that each session takes a long time, and requires many shots. Check the battery level and memory card space in advance.



Star Time-Lapse Movie Setting

۰.

30 sec.

F4.99

60 min

MENU 🕤

Effect

Shot Interval

Shooting Time

Frame Rate

Choose [🐙].

- Follow steps 1 2 in "Specific Scenes" (\$\overline\$57\$) and choose \$\verline\$80\$, and then press the \$\verline\$1NFO\$] button.
- Touch [,], and then press the [) button.
- Zoom is set to maximum wide angle and cannot be adjusted.

2 Configure movie settings.

- Touch [].
- Touch an item, and then choose the desired option.

3 Secure the camera.

 Mount the camera on a tripod or take other measures to keep it still.



• To adjust the brightness, turn the [[]] ring on the shooting screen and change the exposure level. Check brightness again by taking another shot.

Press the shutter button all the way down

5 Shoot.

 Press the movie button. [Busy] is displayed briefly, and then shooting begins.

Check the brightness.

- Do not disturb the camera while shooting.
- To cancel shooting, press the movie button again. Note that cancellation may take up to about 30 seconds.
- The camera operates in Eco mode (µ161) while shooting.

Item	Options	Details
Effect	5 5 6 G G G	Choose movie effects, such as star trails.
Shot Interval	15 sec., 30 sec., 1 min.	Choose the interval between each shot.
Frame Rate	咟4.99, 哣9.97 (NTSC) 咟2.50, 呩5.00 (PAL)	Choose the movie frame rate.
Shooting Time	60 min., 90 min., 120 min., Unlimited	Choose the length of the recording session. To record until the battery runs out, choose [Unlimited].

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Estimated playback time based on shooting interval and frame rate (for a one-hour session)

Interval between Shots	Frame Rate		Dioute als Time
Interval between Shots	NTSC	PAL	Playback Time
15 sec.	LT4.99	L12.50	16 sec.
15 sec.	L29.97	125.00	8 sec.
30 sec.	L14.99	L12.50	8 sec.
30 sec.	L29.97	125.00	4 sec.
1 min.	L14.99	L12.50	4 sec.
1 min.	L29.97	L25.00	2 sec.

- There will be a delay before you can shoot again, as the camera processes the images.
- If the camera runs out of battery power or memory card space, shooting stops and a movie created from the images up to that point is saved.
- A shooting interval of [1 min.] is not available with these effects:
 [2], [3], [3], [6].

Sound is not recorded.

- For easier viewing, try choosing MENU ► [¥2] tab ► [Night Display] ► [On] (□161) before shooting.
- You can also access the screen in step 2 by choosing MENU (□29) ► [□5] tab ► [Star Time-Lapse Movie Setting].
- To save each shot collected before the movie is created, choose MENU (□29) ▶ [15]5 tab ▶ [Save ³√²Stills] ▶ [On]. Note that these individual images are managed as a single group, and during playback, only the first image is displayed. To indicate that the image is part of a group, [SE] □ is displayed in the upper left of the screen. If you erase a grouped image (□115), all images in the group are also erased. Be careful when erasing images.
- Even if you specify [Unlimited] in [Shooting Time] in step 2 and use an AC adapter kit (sold separately, 168), shooting will stop after about 8 hours, at most.

 You can also choose the shooting mode by choosing [2] in steps 1 – 2 of "Specific Scenes" (257), touching [[NFO]] to access the setting screen, touching [27], and then touching the same option or [[NFO]].

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Adjusting Colors

Adjusting the Focus

Still Images Movies

Choose a shooting mode.

[...] ([]66).

starfocus].

Secure the camera.

• Choose [🕅 ((164), [🕅 ((165), or

Mount the camera on a tripod or take

other measures to keep it still.

• Touch [AF], and then touch [Refine

focus] is displayed, and adjustment

Adjustment may take up to about 30 seconds. Do not move the camera until [Adjustment completed] is displayed.

3 Frame the stars to capture.

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Still Images Movies

Colors can be manually adjusted in [23] mode.

- Choose a shooting mode.
- Choose [] ([]63), [] ([]64), [🕅 ((165), or [💭 (166).



2 Choose color adjustment.

- Press the () button, and then choose $[\square WB]$ in the menu ($\square 28$).
- **3** Adjust the setting.
 - Turn the [1] ring to adjust the correction level for B and A, and then press the [() button.
- Once the setting is complete, $[]^{WB}_{+-}]$ is displayed.
- B represents blue and A, amber.
- Skin tones remain the same when you adjust colors in [23] mode.
- Advanced settings can be accessed by pressing the [MENU] button when the screen in step 2 is displayed (\square 78).
- You can also choose the correction level by touching or dragging the bar in step 2.





Automatically adjust the focus to suit starry skies.



beains.



The focal position may not be adjusted under the following conditions. If so, try again from step 3.

• Press the [P] button.

- There is a bright light source
- Airplanes or other light sources or clouds crossed the sky

If adjustment fails, focus returns to the original position.

Recording Various Movies

Locking or Changing Image Brightness before Recording

You can lock the exposure before or during recording or adjust it in 1/3-

stop increments within a range of -3 to +3 stops.

Before Use

Basic Guide

Recording Movies in [] Mode

₽₩Ĭ

Manual





붊

Short Clip

Standard

,,

iFrame Movie

Enter ['💻] mode.

- Set the mode dial to [*]
- Touch [*], and then choose [*].
- To confirm your choice, touch [OK].
- 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.

Still Images Movies

2 Configure the settings to suit the movie (1190).

3 Shoot.

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

 You can also choose the shooting mode by accessing MENU (□29) ► [□1] tab ► [Rec. Mode].

 Focus can be adjusted during recording by touching [AF] (to switch it to [MF]) and then touching [▲][▼].



2 Adjust the exposure.

1 Lock the exposure.

• Touch [++] to lock the exposure.

 Turn the [i]) ring to adjust the exposure, as you watch the screen.

• To unlock the exposure, touch [+] again.

Still Images Movies

3 Shoot (**((((69**)**)**.

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Disabling - Auto Slow Shutter

Correcting Severe Camera Shake



Auto Slow Shutter can be disabled if movement in movies is rough. However, under low light, movies may look dark.



Disable

Record movies with smooth

subject movement when dar

SET OK

Realized and solve the second second

• Press the [MENU] button, choose P. Auto slow shutter on the [7] tab. and then choose [A-SLOW OFF] (229).

Still Images Movies

To restore the original setting, repeat this process but choose [A-SLOW ON].

Auto Slow Shutter only applies to [41] 59.94P] (with NTSC) or [ETH) 50.00P] (with PAL) movies.

Using the Attenuator

The attenuator can reduce audio distortion in noisy environments. However, in quiet environments, it lowers the sound-recording level.



- Press the [MENU] button, choose [Attenuator] on the [17] tab, and then press the [3] button (129).
- Choose an option as desired (Q29).

Recording Short Clips

Still Images Movies

Apply playback effects to brief clips of a few seconds, such as fast motion, slow motion, or replay. Clips recorded in this mode may be included in Story Highlights albums (\square 127).

Enter [📅] mode.

- Set the mode dial to [*].
- Touch [*, and then choose [3].
- To confirm your choice, touch [OK].
- Black bars displayed on the top and bottom edges of the screen indicate image areas not recorded.



- **2** Specify the shooting time and playback effect.
- Press the [INFO] button.
- Turn the [] ring to set the shooting time (4 – 6 sec.).
- After pressing the [INFO] button, set the playback effect (¹71) by turning the [()] ring.

3 Shoot (🛄 69).

 A bar showing the elapsed time is displayed.

Playback Effects

▶ 2x	Playback in fast motion
▶ 1x	Playback at normal speed
I ► 1/2x	Playback in slow motion
Œ	Normal playback with the last two seconds rewound and played again in slow motion

- Sound is not recorded in these clips.
- The movie quality is [^EH] 23072] (for NTSC) or [^EH] 23002] (for PAL) ([149, [149] and cannot be changed.
- During [C] recording, a mark indicating the last two seconds is added to the bar showing the elapsed time.

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Recording iFrame Movies

Still Images Movies

Record movies that can be edited with iFrame-compatible software or devices.



1 Choose [

- Set the mode dial to [*].
- Touch [], and then choose [].
- To confirm your choice, touch [OK].
- Black bars displayed on the top and bottom edges of the screen indicate image areas not recorded.

2 Shoot (🛄69).

- iFrame is a video format developed by Apple Inc.
- The movie quality is [部形]230771 (for NTSC) or [部形]230771 (for PAL) (印49, 印49) and cannot be changed.

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P Mode

More discerning shots, in your preferred shooting style



- Instructions in this chapter apply to the camera with the mode dial set to [P] mode.
- [P]: Program AE; AE: Auto Exposure

Shooting in Program AE ([P] Mode)

Still Images Movies

Before Use

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



- Enter [P] mode.
 Set the mode dial to [P].
- 2 Customize the settings as desired
- Customize the settings as desire (, 74 – , 91), 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 (\$\$\mathbb{\lambda}\$\$) or activating the flash (if subjects are dark, \$\$\$\mathbb{\lambda}\$\$), which may enable optimum exposure.
- Movies can be recorded in [P] mode as well, by pressing the movie button. However, some (Q) menu ((228) and MENU ((229) 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 -3 to +3.



• As you watch the screen, turn the [] ring to adjust brightness.

You can also configure this setting by touching the exposure compensation icon on the bottom of the shooting screen and then touching or dragging the bar displayed, or by touching [-][+].

Locking Image Brightness / Exposure (AE Lock)

Still Images Movies

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



Lock the exposure.

- Aim the camera at the subject to shoot with the exposure locked, and then touch [+].
- [+] is displayed, and the exposure is locked
- To unlock AE, touch [¥] again. [¥] is no longer displayed.





After the exposure is locked, you can adjust the combination of shutter speed and aperture value by turning the D ring (Program Shift).

Changing the Metering Method

Still Images Movies

• Press the [] button, choose [] in the menu, and choose the desired option

The option you configured is now

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

(228).

displayed.

- For typical shooting conditions, including backlit S Evaluative shots. Automatically adjusts exposure to match the shooting conditions. Center Determines the average brightness of light across Weighted the entire image area, calculated by treating brightness in the central area as more important. Avg. Metering restricted to within the [] (Spot AE Point • Spot frame). You can also link the Spot AE Point frame to the AF frame (275).

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Compose the shot and shoot.

Linking the Spot AE Point Frame to the AF Frame

Still Images Movies

Set the metering method to [[•]].

 Follow the steps in "Changing the Metering Method" (274) to choose
 .



2 Configure the setting.

- Press the [MENU] button, choose [Spot AE Point] on the [Co] tab, and then choose [AF Point] ([29).
- The Spot AE Point frame will now be linked to the movement of the AF frame (🗐 84).

• Not available when [AF method] is set to [L+Tracking] (Q84).

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.



- Touch [[S0]], and then choose the ISO speed (either touch [◀][▶] or turn the [[]] ring).
- 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.
- The faster shutter speed used at higher ISO speeds reduces subject and camera shake and increases the flash range. However, shots may look grainy.

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Adjusting ISO Auto Settings

Still Images Movies

When the camera is set to [AUTO], maximum ISO speed can be specified in a range of [400] – [12800], and sensitivity can be specified in a range of three levels.

Access the setting screen.

- Press the [MENU] button, choose [ISO speed] on the [15] tab, and then press the [3] button (129).
- Choose [ISO Auto Settings] and press the [[®]] button.



2 Configure the setting.

• Choose a menu item to configure, and then choose the desired option (229).

Changing the Noise Reduction Level (High ISO NR)

You can choose from 3 levels of noise reduction: [Standard], [High], [Low]. This function is especially effective when shooting at high ISO speeds.



 Press the [MENU] button, choose [High ISO NR] on the [C] (ab, and then choose the desired option (Q29).



Auto Exposure Bracketing (AEB Shooting)

SHOOT4

Enable

2..1..0..1..2

ME Peaking Setting

IS Setting

Still Images Movies

Three consecutive images are captured at different exposure levels (standard exposure, underexposure, and then overexposure) each time you shoot. You can adjust the amount of underexposure and overexposure (relative to standard exposure) from -2 to +2 stops in 1/3-stop increments.

1 Choose [2].

 Press the [MENU] button, choose [Bracketing] on the [C14] tab, and then choose [24] (C129).

2 Configure the setting.

• Press the [INFO] button, and then specify a value by touching or dragging the bar on the setting screen.

AEB shooting is only available in [5] mode (187).
Continuous shooting (142) is not available in this mode.

- If exposure compensation is already in use (¹/₁74), the value specified for that function is treated as the standard exposure level for this function.
- Three shots are taken, regardless of any quantity specified in [Cc] (□41).

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Dynamic Range Correction (DR Correction)

Still Images Movies

Tone down bright image areas, which might otherwise look washed out, as follows.



Access the setting screen.

 Press the [MENU] button, choose [DR Correction] on the [15] tab, and then press the [3] button (129).



2 Configure the setting.

- Choose an option as desired (²⁹).
- Once set, the option you chose is displayed.

Options	Details	Available ISO Speed (QQ75)
COFF	-	
(Radito	Automatic adjustment to prevent washed-out highlights	[AUTO], [125] – [12800]
6 0%	Tone down highlights by about 200% relative to the brightness level of $[\mathbf{G}_{\mathrm{H}}]$.	[AUTO], [250] – [6400]

 ISO speed (^{[[]}75) will be adjusted to a speed within the supported range if you have specified a value outside the supported range indicated here.

Shadow Correct

ISO speed

ND Filter

DR Correction

Shadow Correct

Light Metering

Flash Settings

2 3 4 5 6 7 8 SHOOTS

¶0̂#

क्षिम

10 411 Still Images Movies

Automatically preserve image detail in shadows as follows.

1 Access the setting screen.

 Press the [MENU] button, choose [Shadow Correct] on the [1] tab, and then press the [3] button (129).

2 Configure the setting.

- Choose the [(option (29).
- Once the setting is complete, [m] is displayed.

Adjusting Auto ND Filter Settings

For optimal brightness in the scenes you shoot, Auto ND filter reduces light intensity to 1/8 the actual level, by an amount equivalent to three stops. Choosing [B] enables you to reduce the shutter speed and aperture value.



- Press the [[®]] button, choose [[®]] in the menu, and choose the desired option (¹28).
- The option you configured is now displayed.

 When selecting (ND_{ON}), mount the camera on a tripod or take other measures to keep it still and prevent camera shake. In this case, you should set [IS Mode] to [Off] (^[]₂₅52). Camera Basics Auto Mode / Hybrid Auto Mode Other Shooting Modes

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Image Colors

Custom White Balance

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Capturing Natural Colors (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 [3] button, choose [3] in the menu, and choose the desired option (228).
- The option you configured is now displayed.

AWB	Auto	Automatically sets the optimal white balance for the shooting conditions.
۲	Day Light	For shooting outdoors in fair weather.
	Shade	For shooting in the shade.
2	Cloudy	For shooting in cloudy weather or at twilight.
*	Tungsten	For shooting under ordinary incandescent lighting.
	Fluorescent	For shooting under white fluorescent lighting.
淵	Fluorescent H	For shooting under daylight fluorescent lighting.
\$	Flash	For shooting with the flash.
	Custom	For manually setting a custom white balance (Q78).





- Configure the setting.
 - Follow the steps in "Capturing Natural" Colors (White Balance)" (278) to choose [M]].
 - Turn the [1] ring to adjust the correction level for B and A
 - Once the setting is complete, $[\underline{WB}]$ is displayed.

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 "Capturing Natural"

- NKO, Evaluate White Bal. 5 3 0 32 0, 0 MENU 🗰 💈 🔜 🥶
- Colors (White Balance)" (278) to choose [1] or [2]. • Aim the camera at a plain white subject. so that the entire screen is white. Press
- the [INFO.] 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.
- You can also record white balance data on the screen above by

Still Images Movies

You can correct white balance. This adjustment can match the effect of using a commercially available color temperature conversion filter or colorcompensating filter.









2 Configure advanced settings.

- To configure more advanced settings, press the [MENU] button and adjust the correction level (either turn the [[]) ring or touch or drag the frame).
- To reset the correction level, press the [NFO] button.
- Press the [[®]] button to complete the setting.

• The camera will retain white balance correction levels even if you switch to another white balance option (by following steps in "Capturing Natural Colors (White Balance)" (\$\begin{array}{c} 78\$)), but correction levels will be reset if you record custom white balance data.

- B: blue; A: amber; M: magenta; G: green
- One level of blue/amber correction is equivalent to about 7 mireds on a color temperature conversion filter. (Mired: Color temperature unit representing color temperature conversion filter density)
- You can also configure this setting by choosing MENU (Q29)
 - ▶ [1]6] tab ▶ [WB Correction].
- You can also choose the correction level by touching or dragging the bar in step 1 or the frame in step 2.
 - You can also access the screen in step 2 by touching [MENU] in step 1.
 - On the screen in step 2, you can touch [[NFO] to restore the original level and touch [[NENU]] to return to the shooting screen.

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 [①] button, choose [①] in the menu, and choose the desired option (□28).
- The option you configured is now displayed.

∠0FF	My Colors Off	-
Av	Vivid	Emphasizes contrast and color saturation, making images sharper.
ÂN	Neutral	Tones down contrast and color saturation for subdued images.
Æse	Sepia	Creates sepia tone images.
∕₿w	B/W	Creates black and white images.
Вр	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.
AL	Lighter Skin Tone	Lightens skin tones.
AD	Darker Skin Tone	Darkens skin tones.
Ав	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.
<i>A</i> _R	Vivid Red	Emphasizes reds in images. Makes red subjects more vivid.
<i>A</i> c	Custom Color	Adjust contrast, sharpness, color saturation, and other qualities as desired (

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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.

Access the setting screen.

 Follow the steps in "Changing Image Color Tones (My Colors)" (79) to choose [4c], and then press the [INFO] button.



Configure the setting.

- Touch [4][b] to choose an item, and then turn the [i] ring to specify a value.
- For stronger/more intense effects (or darker skin tones), adjust the value to the right, and for weaker/lighter effects (or lighter skin tones), adjust the value to the left.
- Press the [INFO.] button to complete the setting.

Shooting Range and Focusing

Shooting Close-Ups (Macro)



To restrict the focus to subjects at close range, set the camera to [X]. For details on the range of focus, see "Shooting Range" ($\square 205$).



Press the [③] button, choose [▲] in the menu, and then choose [♥] (□28).
Once the setting is complete, [♥] is displayed.

If the flash fires, vignetting may occur.

 To prevent camera shake, try mounting the camera on a tripod and shooting with the camera set to [(2)] ([41)).





Shooting in Manual Focus Mode

Still Images Movies

When focusing is not possible in AF mode, use manual focus. You can specify the general focal position and then press the shutter button halfway to have the camera determine the optimal focal position near the position you specified. For details on the range of focus, see "Shooting Range" (Q205).



1 Choose [MF].

- Touch [AF].
- [MF] and the MF indicator are displayed.



2 Specify the general focal position.

- Referring to the on-screen MF indicator (1, which shows the distance and focal position) and the magnified display, touch [▲][▼] to specify the general focal position, and then press the [இ] button.
- To adjust the magnification, press the [INFO.] button.
 - During magnified display, you can move the focusing frame by dragging on the screen.

3 Fine-tune the focus.

- Press the shutter button halfway or touch [AF] to have the camera fine-tune the focal position (Safety MF).
- To cancel manual focus, touch [MF].

When you focus manually, the AF method (\square 83) is [1-point AF] and AF frame size (\square 84) is [Normal], and these settings

 (\mathbf{I})

- cannot be changed.
 Focusing is possible when using the digital zoom (\$\$\lambda\$39\$) or digital tele-converter (\$\$\lambda\$83\$), or when using a TV as a display (\$\$\lambda\$170), but the magnified display will not appear.
- To focus more accurately, try attaching the camera to a tripod to stabilize it.
- You can enlarge or hide the magnified display area by adjusting MENU (□29) ▶ [□4] tab ▶ [MF-Point Zoom] settings.
- To deactivate automatic focus fine-tuning when the shutter button is pressed halfway, choose MENU (□29) ► [□4] tab ► [Safety MF] ► [Off].



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Easily Identifying the Focus Area (MF Peaking)

Still Images Movies

Edges of subjects in focus are displayed in color to make manual focusing easier. You can adjust the colors and the sensitivity (level) of edge detection as needed.



Access the setting screen.

 Press the [MENU] button, choose [MF Peaking Settings] on the [1] 4] tab, choose [Peaking], and then choose [On] ([] 29).

2 Configure the setting.

 Choose a menu item to configure, and then choose the desired option (^[]29).

• Colors displayed for MF peaking are not recorded in your shots.

Focus Bracketing (Focus-BKT Mode)

Still Images Movies

Three consecutive images are captured each time you shoot, with the first one at the focal distance you set manually and the others at farther and nearer focal positions determined by presets. The distance from your specified focus can be set in three levels.

	D		1	ŕ		*		
								SHOOT4
N	MF-Po	int Z	loon			2x		
5	afety	MF				On		
N	MF Peaking Settings							
- I	IS Settings							
	, Au	to le	vel			Enal	ble	
E	Bracke	eting				쬄		

Choose [峄].

● Press the [MENU] button, choose [Bracketing] on the [□4] tab, and then choose [從] (□29).



(281).

(41).

(MENU)

for the final shot

2 Configure the setting.

Focus bracketing is only available in [3] mode (\square 87).

Continuous shooting $(\square 42)$ is not available in this mode.

You can also access the setting screen in step 2 by pressing the

MFNU button in step 2 of "Shooting in Manual Focus Mode"

Three shots are taken, regardless of any quantity specified in [Cc]

• In [Blink Detection] mode (251), this function is only available

You can also configure this setting by touching or dragging the

bar on the screen in step 2 to specify a value and then touching

• Press the [INFO] button, and then specify a value by touching or dragging the bar on the setting screen.

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Digital Tele-Converter

1-point AF

The camera focuses using a single AF frame. Effective for reliable

(Focus Lock).

focusing. You can also move the frame by touching the screen (286).

focus when you press the shutter button halfway.

A yellow AF frame is displayed with [1] if the camera cannot

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

continue to hold the shutter button halfway, recompose the shot as desired, and then press the shutter button all the way down

frame, and then hold the shutter button halfway down. As you

• The AF frame position is enlarged when you press the shutter

button halfway with [AF-Point Zoom] (250) set to [On].

Still Images Movies

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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.



- Press the [MENU] button, choose [Digital Zoom] on the [2] tab, and then choose the desired option ($\square 29$).
- The view is enlarged and the zoom factor is displayed on the screen.

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)" (239).

Choosing the AF Method

Still Images Movies

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



• Press the [I] button, choose [AF] in the menu, and choose the desired option (228).

You can also configure this setting by accessing MENU (Q29) ► [C] 3] tab ► [AF method].

Moving and Resizing AF Frames (1-point AF)

Still Images Movies

+Tracking

detected faces.

subjects, within a certain range.

displayed around faces in focus.

(47) setting.

shutter button halfway.

When you want to change the position or size of the AF frame, set the AF method to [1-point AF].



Move the AF frame.

- Touch the screen. An AF frame is displayed in orange where you touched (Touch AF).
- To return the AF frame to the original position in the center, press the [MENU] button.

2 Resize the AF frame.

To reduce the AF frame size, turn the
 [1] ring. Turn it again to restore it to the original size.

3 Finish the setup process.

• Press the [INFO.] button.

• AF frames are displayed at normal size when you use the digital zoom (Q39) or digital tele-converter (Q83), and in manual focus mode (Q81).

- You can also link the Spot AE Point frame to the AF frame (
 (
 (
 75).
- You can also configure the AF frame size by pressing the [MENU] button and choosing [AF Frame Size] on the [2] tab (2)29).

On the screen in step 2, you can also move the AF frame by touching the screen, restore the AF frame to the original position by touching [[NEN]], or exit the setting by touching [[NEO]].

• Detects people's faces, and then sets the focus, exposure (evaluative

around the person's face determined by the camera to be the main

• After you press the shutter button halfway, up to nine green frames are

When no faces are detected, or when only grav frames are

displayed (without a white frame), pressing the shutter button halfway will display green frames in the areas in focus. Note that

the maximum number of frames depends on the aspect ratio

frame is displayed in the center of the screen when you press the

If no faces are detected in Servo AF (Q85) mode, the AF

Examples of faces that cannot be detected:

Subjects that are dark or light

press the shutter button halfway.

Subjects that are distant or extremely close

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

After you aim the camera at the subject, a white frame is displayed

subject, and up to two gray frames are displayed around other

When the camera detects movement, frames will follow moving

metering only), and white balance ([IIII] only).

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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.



Configure the setting.

• Press the [3] button, choose [ONE SHOTI in the menu, and then choose **ISERVOI**.

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 method.
- Continuous shooting (242) is slower in Servo AF 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.
- AF lock shooting is not available.
- [AF-Point Zoom] on the [3] tab (29) is not available.
- Not available when using the self-timer (440).
- Using the self-timer (QQ40) will restrict the AF mode to [ONE SHOT1.

- To have the camera keep adjusting the focus during continuous shooting (42), specify Servo AF with [AF method] set to [1-point AF].
- You can also configure this setting by accessing MENU (22) ► [C]3] tab ► [AF operation].

Changing the Focus Setting



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.

- **0** 9 * Continuous AF Off
- Press the [MENU] button, choose [Continuous AF] on the [3] tab, and then choose [Off] (29).

Helps avoid missing sudden photo opportunities, because the camera constantly focuses on subjects until you press the On shutter button halfway.

Conserves battery power, because the camera does not focus Off constantly.





Choosing a Person to Focus On (Face Select)

Still Images Movies

You can shoot after choosing a specific person's face to focus on.



- Set the AF method to [L+Tracking] (83).
- **2** Assign [III] to the movie button (99).
- **3** Enter Face Select mode.
- Aim the camera at the person's face and press the movie button.
- After [Face Select : On] is displayed, a face frame [] is displayed around the face detected as the main subject.
- Even if the subject moves, the face frame [] follows the subject within a certain range.
- If a face is not detected. [2] is not displayed.

Choose the face to focus on.

- To switch the face frame [] to another detected face, press the movie button.
- Once you cycle through all detected faces, [Face Select : Off] is displayed, followed by the selected AF method screen.



5 Shoot.

- Press the shutter button halfway. After the camera focuses, [1] changes to [1]
- Press the shutter button all the way down to shoot.

When [Face ID] is set to [On], only the name of the registered person chosen as the main subject is displayed, even if other registered people have been detected. However, their names will be recorded in the still images ($\square 43$).

Choosing Subjects to Focus On (Touch AF)

Still Images Movies

You can shoot after choosing a person's face or another subject to focus on.





1 Set the AF method to [:+Tracking] (283).

- **2** Choose a person's face or another subject to focus on.
- Touch the subject or person on the screen.
- When the subject is detected, the camera beeps and $\begin{bmatrix} r \\ 1 \end{bmatrix}$ is displayed. Focus is maintained even if the subject moves.
- To cancel Touch AF. touch [¹].

3 Shoot.



Press the shutter button all the way down to shoot

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- - If the camera shoots when you touch the screen, either touch [c] and choose [m] (µ42) or choose MENU (µ29) ▶ [2] tab ▶ [Touch Shutter] ▶ [Disable].
 - Tracking may not be possible when subjects are too small or move too rapidly, or when there is inadequate contrast between subjects and the background.
 - Even if you are shooting in [] mode ([] 80), the camera will revert to []] mode if you touch the screen to specify where to focus.
 - If [Face ID] is set to [On], names will not be displayed when registered people are detected, but the names will be recorded in the still images (QQ43). However, a name will be displayed if the subject chosen to focus on is the same as a person detected with Face ID.

Shooting with the AF Lock

Still Images Movies

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



Lock the focus.

- With the shutter button pressed halfway, press the [MENU] button.
- The focus is now locked, and [MF] and the MF indicator are displayed.
- To unlock the focus, release the shutter button and touch [MF].

2 Compose the shot and shoot.

• Cannot be used with Touch Shutter (Q42).

Flash

Changing the Flash Mode



Auto

Fires automatically in low-light conditions.

On

Fires for each shot.



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Basic Guide

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.

- In [4*] 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 (\square 52).
 - In [4*] 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 [9] 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

You can also configure this setting by touching $[4^A]$, touching an option, and then touching it again.

Adjusting the Flash Exposure Compensation

Still Images Movies

Just as with regular exposure compensation (\square 74), you can adjust the flash exposure from -2 to +2 stops, in 1/3-stop increments.



- Raise the flash, press the [P] button, and choose $[4^{A}]$ in the menu. Turn the [1] ring to choose the compensation level, and then press the [P] button.
- When there is a risk of overexposure, the camera automatically adjusts the shutter speed or aperture value for flash shots to reduce washed-out highlights and shoot at optimal exposure. However, you can deactivate automatic adjustment of the shutter speed and aperture value by accessing MENU (Q29) and choosing [05] tab ► [Flash Settings] ► [Safety FE] ► [Off].
- You can also configure the flash exposure compensation by accessing MENU (□29) and choosing [5] tab ► [Flash Settings] ► [Flash Exp. Comp].
- You can also access the [Built-in Flash Settings] screen (Q29) as follows.
 - Press the $\left[\left(\begin{array}{c} \bullet \\ \bullet \end{array} \right) \right]$ button when the flash is up, choose $\left[\begin{array}{c} \bullet \\ \bullet \end{array} \right]$ in the menu, and then press the **[MFNU]** button.

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Shooting with the FE Lock

Still Images Movies

Just as with the AE lock (274), you can lock the exposure for flash shots.

> Raise the flash and set it to [4] (287).



2 Lock the flash exposure.

- Aim the camera at the subject to shoot with the exposure locked, and then touch [**X**]
- The flash fires, and when [+] is displayed. the flash output level is retained.
- To unlock FE, touch [+] again. [+] is no longer displayed.

Compose the shot and shoot. 3

• After one shot, FE is unlocked and [+] is no longer displayed.

FE: Flash Exposure

Changing the Flash Timing

Flash Settings

Shutter Sync

1st-

curtain

curtain

2nd-







Other Settings

Changing Image Quality



• Follow the steps in "Changing Image Quality" (48) to adjust the settings.

Still Images Movies

[A] and [A] indicate different levels of image guality depending on the extent of compression. At the same size (number of pixels), [6]] offers higher image guality. Although [6]] images have slightly lower image guality, more fit on a memory card.

Choose from 8 combinations of size (number of pixels) and compression (image guality). Also specify whether to capture images in RAW format (190). For guidelines on how many of each kind of image can fit on a memory card, see "Number of Shots per Memory Card" (205).



	Processed in the camera for optimal image quality	Basic Guide
JPEG Images	and compressed to reduce file size. However, the compression process is irreversible, and images cannot be restored to their original, unprocessed	Advanced Guide
	state. Image processing may also cause some loss of image quality.	Camera Basics
RAW Images	"Raw" (unprocessed) data, recorded with essentially no loss of image quality from the camera's image	Auto Mode / Hybrid Auto Mod
	processing. The data cannot be used in this state for viewing on a computer or printing. You must first use the software (Digital Photo Professional, Q173)	Other Shooting I
	to convert images to ordinary JPEG or TIFF files. Images can be adjusted with minimal loss of image	P Mode
	quality.	Ty, Ay, M, and C

Capturing in RAW Format

- Press the [] button, and then choose [] in the menu ($\square 28$).
- To capture in RAW format only, choose the [M] option.
- To capture images in both JPEG and RAW format simultaneously, choose the JPEG image quality, and then press the [INFO] button. A [/] mark is displayed next to [RAW]. To undo this setting, follow the same steps and remove the $[\checkmark]$ mark next to [RAW].
- When transferring RAW images (or RAW and JPEG images recorded together) to a computer, always use the dedicated software (173).
- Digital zoom (Q39) is not available when capturing images in RAW format. Additionally, noise reduction level (Q76), dynamic range correction (Q77), shadow correction (Q77), and My Colors (Q79) cannot be configured.

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- For details on the relationship between the number of recording pixels and the number of shots that will fit on a card, see "Number of Shots per Memory Card" (Q205).
- The file extension for JPEG images is .JPG, and the extension for RAW images is .CR2.

Using the Menu



- Press the [MENU] button, choose [Image quality] on the [1] tab, and then press the [3] button (29).
- To capture in RAW format at the same time, choose [I] under [RAW]. Note that only JPEG images are captured when [-] is selected.
- In [JPEG], choose the number of pixels and compression ratio. Note that only RAW images are captured when [-] is selected.
- When finished, press the [[®]] button to return to the menu screen.

[RAW] and [JPEG] cannot both be set to [-].

Changing the IS Mode Settings

Still Images Movies

You can keep image stabilization off until the moment you shoot.

10 Cardinana	
IS Settings	
IS Mode	Off
	Shoot Only

• Follow the steps in "Deactivating Image Stabilization" (252) to choose [Shoot Only].

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Tv, Av, M, and C Mode

Take smarter, more sophisticated shots, and customize the camera for your shooting style



 Instructions in this chapter apply to the camera as set to the respective mode.

Specific Shutter Speeds ([Tv] Mode)

Still Images Movies

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Set your preferred shutter speed before shooting as follows. The camera automatically adjusts the aperture value to suit your shutter speed. For details on available shutter speeds, see "Camera" (^[]204).

- 1 Enter [Tv] mode.
- Set the mode dial to [**Tv**].



- **2** Set the shutter speed.
- Turn the [()] ring to set the shutter speed.

Shutter Speed (Sec.)	Available ISO Speed (Q75)
30 – 1.3	[AUTO], [125] – [3200]
1 – 1/2000	[AUTO], [125] – [12800]

- In conditions requiring slower shutter speeds, there may be a delay before you can shoot again, as the camera processes images to reduce noise.
 - When shooting at low shutter speeds on a tripod, you should set [IS Mode] to [Off] (D352).
 - Orange display of the aperture value when you press the shutter button halfway indicates that the optimum exposure has not been obtained. Adjust the shutter speed until the aperture value is displayed in white, or use safety shift (¹)93).



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Specific Aperture Values ([Av] Mode)

Still Images Movies

Set your preferred aperture value before shooting as follows. The camera automatically adjusts the shutter speed to suit your aperture value. For details on available aperture values, see "Camera" (¹/₂204).

Enter [Av] mode.

Set the mode dial to [Av].



2 Set the aperture value.

• Turn the [[)] ring to set the aperture value.



- Ø •
- [**Av**]: Aperture value (size of the opening made by the diaphragm in the lens)
- In [Tv] and [Av] modes, press the [MENU] button and set [Safety Shift] on the [16] (12) to have the camera automatically adjust the shutter speed and aperture value when there are exposure problems, so that you can shoot at the optimum exposure.

However, safety shift is disabled when the flash fires.

Specific Shutter Speeds and Aperture Values ([M] Mode)

Still Images Movies

Follow these steps before shooting to set your preferred shutter speed and aperture value to obtain the desired exposure.

(1)

100

AF

(4)

4/55 AL 1529 RD 10 34'55

(2) (3)

(5)

(6)

01/125 F4.0 3.2.1.8.1.2.3 MAUTO

For details on available shutter speeds and aperture values, see "Camera" (Q204).

Enter [[V]] mode.

Set the mode dial to [M].

2 Configure the setting.

- Touch [1], (1), choose the shutter speed (2), aperture value (3), or [1], (4), and then turn the [1] ring to specify a value.
- When the ISO speed is fixed, an exposure level mark (6) based on your specified values is shown on the exposure level indicator for comparison to the standard exposure level (5). The exposure level mark is shown as [4] or [b] when the difference from standard exposure exceeds 3 stops.
- The ISO speed is determined and screen brightness changes when you press the shutter button halfway after setting the ISO speed to [AUTO]. If standard exposure cannot be obtained with your specified shutter speed and aperture value, the ISO speed is displayed in orange.

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Shutter Speed (Sec.)	Available ISO Speed (Q75)	
[BULB], 30 – 1.3	[AUTO], [125] – [3200]	
1 – 1/2000	[AUTO], [125] – [12800]	

 After you set the shutter speed and aperture value, the exposure level may change if you adjust the zoom or recompose the shot.
 Screen brightness may change depending on your specified

- shutter speed and aperture value. However, screen brightness remains the same when the flash is up and the mode is set to $[\clubsuit]$
- [M]: Manual
- Calculation of optimum exposure is based on the specified metering method (274).
- The following operations are available when ISO speed is set to [AUTO].
 - Adjust exposure by touching [1] a few times to choose the exposure compensation bar and then turning the [1] ring.
 - Touch [★] to lock the ISO speed. Screen brightness changes accordingly.

Shooting Long Exposures (Bulb)

With bulb exposures, shots are exposed for as long as you hold down the shutter button.

1 Specify bulb exposure.

 Set the shutter speed to [BULB], following steps 1 – 3 in "Specific Shutter Speeds and Aperture Values ([M] Mode)" (
93).

2 Shoot.

 Shots are exposed for as long as you hold the shutter button all the way down. The elapsed exposure time is displayed during exposure.

• Maximum continuous shooting time with this feature is 4 min. 16 sec.

 Mount the camera on a tripod or take other measures to keep it still and prevent camera shake. In this case, also disable image stabilization (², 52).

 When [Touch Shutter] is set to [On], shooting is started by touching the screen once and stopped by touching it again. Be careful not to move the camera when touching the screen. Advanced Guide

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Adjusting the Flash Output

Still Images Movies

Choose from the three flash levels in [Tv][Av][M] modes.



 Press the [MENU] button, choose [Flash Settings] on the [5] tab, and then set [Flash Mode] to [Manual].



2 Configure the setting.

- Raise the flash, press the [[®]] button, and choose [⁴] in the menu. Turn the [¹] ring to choose the flash output level, and then press the [[®]] button.
- Once the setting is complete, the flash output level is displayed.
 [52] _0[]: Minimum, [52] _0[]: Medium, [52] _0]: Maximum

 You can also set the flash level by accessing MENU (□29) and choosing [□5] tab F [Flash Settings] F [Flash Output].

- You can also access the [Flash Settings] screen (Q29) as follows.
 - Press the (B) button when the flash is up, choose [4] in the menu, and then press the [MENU] button.

Recording Movies at Specific Shutter Speeds and Aperture Values

🕨 Still Images 🕨 Movies

Set your preferred shutter speed, aperture value, exposure, and ISO speed.

For details on available shutter speeds and aperture values, see "Camera" (\$204), and for available ISO speeds, see "Changing the ISO Speed" (\$275).

1 Enter [P∰] mode.

- Set the mode dial to [P.
- Touch ["], and then choose [!].
- To confirm your choice, touch [OK].



3.2.1.8.1.2.3 BRAUTO

(2)

2 Configure the settings.

- Touch [1], (1), choose an item to configure (2), and then turn the [1] ring to specify a value.
- **3** Shoot.
- Press the movie button.
- During recording, you can switch the setting to configure by touching
 [1] repeatedly and adjust the value by turning the [1] ring.

Some shutter speeds may cause flickering on the screen when recording under fluorescent or LED lighting, which may be recorded.

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- You can also adjust the exposure when ISO speed is set to [AUTO] by touching [1] a few times, choosing the exposure compensation bar, and then turning the [1] ring.
- When the ISO speed is fixed, an exposure level mark based on your specified value is shown on the exposure level indicator for comparison to the standard exposure level. The exposure level mark is shown as [4] or [) when the difference from standard exposure exceeds 3 stops.
- You can check the ISO speed in [AUTO] mode by pressing the shutter button halfway. If standard exposure cannot be obtained with your specified shutter speed and aperture value, the ISO speed is displayed in orange.

 Focus can be adjusted during recording by touching [AF] (to switch it to [MF]) and then touching [▲] or [▼].

Customizing Controls and Display

Adjusting Settings while Switching Control Ring Functions

You can touch the screen to switch the function (ISO speed, exposure compensation, shutter speed, and aperture value) configured with the control ring, and quickly adjust the setting by turning the ring.



 Touch [1] to switch to another item, and then turn the [1] ring to set a value.

Still Images Movies



Available setting items vary by shooting mode.

M	Av	Tv	Р
Tv Av +/– ISO	Av +/– ISO	Tv +/– ISO	+/_ ISO

+/-: exposure compensation (
 ⁷⁴); ISO: ISO speed (
 ⁷⁵); Tv: shutter speed (
 ⁹²); Av: aperture value (
 ⁹³).

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Changing Control Ring Settings

Functions Assignable to the Control Ring

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Still Images Movies

Reassign control ring functions as follows. Using the control ring is an enjoyable way to control the camera as you would a fully manual camera.



Choose a function to assign to the [()] ring.

- Press the [MENU] button and choose [Control Ring Settings] on the [[▲]2] tab. Set [Switch with ^①□] to [Disable].
- Choose [Set Function].

2 Configure the assigned function.

• Touch an option, and then press the [() button.

Item	Shooting Mode						
	M'₩	Av	Tv	Р			
Av	Av	-					
Tv	Τv						
STD	-	Av Tv +					
150	-	Adjust the ISO speed (Q75)					
Z	-	Correct the exposure (74)					
WB +/-	-	Correct white balance (78)					
ZOOM	-	Perform step zooming (Q40)					
C t	-	Configure dynamic range (C77)					
€ i	_	Enable or disable shadow correction (Â77)					
+	_	Adjust the as	spect ratio (📖	17)			
С	-	Assign functions as desired (Q98)					

• +/-: exposure compensation (\$\$\Phi74\$); Tv: shutter speed (\$\$\Phi92\$); Av: aperture value (\$\$P3\$).

Ite (①) ring can be used for step zooming (□40) in [AUTO] or [▲ mode.

Assigning Functions to the Control Ring

Still Images Movies

Assign functions to the control ring based on each shooting mode.

Choose [**C**].

 Following step 1 in "Changing Control Ring Settings" (¹, 97), choose [^C] and press the [INFO] button.



2 Configure the setting.

- Touch a shooting mode to choose it.
- Turn the [[]] ring to choose a function to assign to the control ring (1).
- Press the [MENU] button to return to the shooting screen.

Customizing Display Information

MENU OK

Screen info/ toggle settings

Custom display

SET 🗸 INFO. 🖃

Customize what screen is displayed when you press the [INFO.] button on the shooting screen. You can also customize what information is displayed.

1 Access the setting screen.

 On the [1] tab, choose [Screen info/ toggle settings] in [Shooting information display], and then press the [3] button (229).

2 Configure the setting.

- Touch any screen that you prefer not to display, to remove the [√] mark.
 Touching it again will add the [√] mark, which indicates that it is included in display.
- To return to the menu screen, press the [MENU] button.

 An example of display with the options selected in step 2 is shown at left for reference.

• At least one option must be selected.

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Customizing the Information Displayed



- Follow steps 1 2 in "Customizing Display Information" (¹98) to choose [Custom display 1] or [Custom display 2], and then press the [INFO] button.
- Touch information to display, to add a [√] mark.
- To see an example of display, press the [MENU] button to return to the [Screen info/ toggle settings] screen.

For a smaller grid pattern, access [□]1 tab ► [Shooting information display] ► [Grid display].

Assigning Functions to the Movie Button

Still Images Movies

You can quickly and easily activate functions that you assign to the movie button.

	Ċ.		5			*		
								SHOOT2
T	buch	Shu	tter					
Fa	ice IC) Set	ting					
S	Set 🖷 button 🐂							
Control Ring Settings								
Q	uick	setti	ng n	ieni	i layo	ut		
Sa	ave S	ettir	igs					
D	igital	Zoc	m			Star	darc	

Access the setting screen.

 Press the [MENU] button, choose [Set [™], button] on the [[™]]2] tab, and then press the [[®]] button ([™]]29).

Set 77 button Movies 197 MF E2 Ct. O. B20 198 et. -2 4 Ca. O. 201 A 100 E1 Rt. 350-Ct. Rt86 AR. 42 E1 E00 SEE OK

2 Configure the setting.

• Touch an option to assign, and then press the [()] button.

- To restore the default setting to the movie button, choose [17]
- Icons labeled with [O] indicate that the function is not available in the current shooting mode or under current function conditions.
- With [-], you can move and resize the AF frame by pressing the movie button in [1-point AF] mode ([]83, []84).
- With [1] or [1], each press of the movie button records white balance data ([1] 78), and the white balance setting changes to [1] or [1].
- When the [AFL] function is used, each press of the movie button adjusts and locks the focus, and [AFL] is displayed on the screen.
- Pressing the movie button when the [²²] function is used deactivates screen display. To restore the display, do any of the following.
 - Press any button other than the power button
 - Hold the camera in another orientation
 - Raise or lower the flash
- You can still record movies in [[™], [[™]], [[™]], [[™]], [[™]], mode even if you assign a function to the movie button.
- You can also configure settings by touching a desired option and then touching it again or touching [SET].

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Customizing the Quick Set Menu

Still Images Movies

The display of Quick Set menu items can be customized.

Choosing Items to Include in the Menu



	AF me	thod	
AF □ ≦	℃10H23V0	∎L ×	Ľ
~ 船	٦		ÔF Ý
(B) 🖌	_∧ ĭ	₩Ľ	146 BS2
3:2	¶â∓	®∓	

Access the setting screen.

 Press the [MENU] button, choose [Quick setting menu layout] on the [2] tab, and then press the [3] button (2)29.

2 Choose icons to include in the menu.

- Touch icons to include in the Quick Set menu. Selected icons are marked with a [√].
- Selected items (labeled with a [√]) will be included in display.
- Items without a [√] can be configured on the [1] tab of the menu screen.

3 Complete the setting.

 Press the [MENU] button, and then touch [OK].

• Up to 11 items can be displayed in the menu.

• The screen in step 2 can also be accessed by holding down the [(a)] button when the Quick Set menu is displayed.

Rearranging Menu Items



Access the setting screen.

- On the screen in step 2 of "Choosing Items to Include in the Menu" (Q100), press the [INFO] button.
- Drag an icon to move it to a new position.
- **2** Complete the setting.
- Press the [MENU] button, and then touch [OK].



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Saving Shooting Settings

Still Images Movies

Save commonly used shooting modes and your configured function settings for reuse. To access saved settings later, simply turn the mode dial to [C]. Even settings that are usually cleared when you switch shooting modes or turn the camera off (such as self-timer settings) can be retained this way.

Settings That Can Be Saved

- Shooting modes ([P], [Tv], [Av], and [M])
- Items set in [**P**], [**Tv**], [**Av**], and [**M**] modes (\square 74 \square 93) •
- Shooting menu settings
- Zoom positions •
- Manual focus positions (Q81) •
- My Menu settings (^[]101)
 - you want to save, and change the settings as desired.
- 4 5 6 7 8 SHOOT2 Touch Shu Face ID Set Set 🖷 buttor Control Ring Settings Ouick setting menu layout Save Settings Digital Zoon Standar
- Save Settings Save current settings? Cancel OK

- **2** Configure the setting.
- Press the [MENU] button, choose [Save Settings] on the [2] tab, and then press the I button.

Enter a shooting mode with settings

- 3 Save the settings.
- Touch [OK].

To clear information you have saved to [C] and restore default values, turn the mode dial to [C] and choose [Reset All] ([]] 166).

details are not applied in other shooting modes.

To edit saved settings (except their shooting mode), choose [C], change the settings, and then repeat steps 2 - 3. These setting

Saving Commonly Used Shooting Menu Items (Mv Menu)

Still Images Movies

You can save up to six commonly used shooting menu items on the [+1]tab. By customizing the [+1] tab, you can access these items guickly from a single screen.

MYMENI

My Menu settings

My Menu settings

Set default view

No

Select items

1 Access the setting screen.

Press the [MFNI] button, choose [Mv Menu settings] on the [+1] tab, and then press the [R] button (R29).

2 Configure the setting.

- Choose [Select items] and press the [@] button.
- Touch up to six menu items to save.
- [√] is displayed.
- To cancel saving, touch an item. $[\checkmark]$ is no longer displayed.
- Press the [MENU] button.

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3 Rearrange menu items, as needed.

- Choose [Sort] and press the [] button.
- Drag items to change the display order.
- Press the [MENU] button.

) • Grayed-out items in step 2 can also be specified, but they may not be available in some shooting modes.

 To make My Menu immediately accessible by pressing the [MENU] button in Shooting mode, set [Set default view] to [Yes].

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Playback Mode

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

• To prepare the camera for these operations, press the [**b**] 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

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



Enter Playback mode.
Press the [] button.
Your last shot is displayed.

2 Choose images.

- To view the next image, drag right to left across the screen, and to view the previous image, drag left to right.
- You can also view the next image by touching the right edge of the screen (1).
 In this case, [D] is displayed. Similarly, you can view the previous image by touching the left edge of the screen (2), and in this case, [d] is displayed.
- To access this screen (Scroll Display mode), quickly drag left or right repeatedly.
- In this mode, drag left or right to browse through images.
- Touching the central image will restore single-image display.
- To browse images grouped by shooting date in Scroll Display mode, quickly drag up or down.

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 Movies are identified by a [) icon. To play movies, go to step 3.



3 Play movies.

 To start playback, press the [இ] button, choose [▶], and then press the [இ] button again.



(1)

4 Adjust the volume.

- Quickly drag up or down to adjust the volume.
- To adjust the volume when the volume indicator (1) is no longer displayed, quickly drag up or down across the screen.

5 Pause playback.

- To pause or resume playback, press the [(a)] button.
- To pause playback, touch the screen. The movie control panel is displayed. To resume playback, touch [▶].
- After the movie is finished, [) is displayed.

- To switch to Shooting mode from Playback mode, press the shutter button halfway.
- To deactivate Scroll Display, choose MENU (□29) ► [►5] tab ► [Scroll Display] ► [Off].
- To have the most recent shot displayed when you enter Playback mode, choose MENU (□29) ► [►5] tab ► [Resume] ► [Last shot].
- To change the transition shown between images, access MENU (□29) and choose your desired effect on the [▶5] tab ► [Transition Effect].
- Touching the volume indicator displays the volume panel. You can adjust the volume by touching [▲][▼].





Switching Display Modes

Still Images Movies

Press the **[INFO]** button to view other information on the screen, or to hide the information. For details on the information displayed, see "Playback (Detailed Information Display)" (🕮 189).

	No Information Display
	Simple Information Display
2/14 exe Tul 1) (日本) 100 - 0002 (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本)	Detailed Information Display
2/14 even Tul El 2/15 100-0002 GB /08/2015 10:00-00 4/2 X, xx50x10x" X xx50x10x" mit k 08/08/2015 10:00	RGB Histogram, GPS Information Display

• Switching display modes is not possible while the camera is connected via Wi-Fi to devices other than printers.

	Still Images Movies	
Washed-out highlights in the	ne image flash on the screen in detailed	Basic Guide
information display (🛄 105	5).	Advanced Guide
stogram		
	Still Images Movies	Camera Basics
	 The graph in detailed information display (105) is a histogram showing the 	Auto Mode / Hybrid Auto Mode
	distribution of brightness in the image. The horizontal axis represents the degree of brightness, and the vertical axis, how	Other Shooting Mode
	much of the image is at each level of brightness. Viewing the histogram is a	P Mode
	 way to check exposure. The histogram can also be accessed while shooting (299, 2188). 	Tv, Av, M, and C Mode
3 Histogram, GPS	Information Display	Playback Mode
	Still Images Movies	Wi-Fi Functions
	 The RGB histogram shows the distribution of shades of red, green, and blue in an 	Setting Menu
	image. The horizontal axis represents R, G, or B brightness, and the vertical axis, how much of the image is at that level of	Accessories
	brightness. Viewing this histogram enables you to check image color characteristics.	Appendix
4 2 100-0002 08/08/2015 10:00:00	 Using a smartphone connected to the camera via Wi-Fi, you can geotag images 	Index
	on the camera, adding information such as latitude, longitude, and elevation	
	(🛄 155). You can review this information in the GPS information display.	
108/08/2015 10:00 °		

• Latitude, longitude, elevation, and UTC (shooting date and time) are listed from top to bottom.

1	05
	00

◀ ▶ ◄



[---] 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
- GPS information display is not available for images that lack this information

You can also switch between the RGB histogram and GPS information display by dragging the lower half of the screen upward or downward in detailed information display.

Viewing Short Movies Recorded in Creative Shot Mode (Creative Shot Movies)

Still Images Movies

Play back Creative Shot movies recorded in [\swarrow] mode (\square 55).

			1	ŕ			
1						PLA	
- E	🖽 Story Highlights						
Li	List/Play Digest Movies						
Play Creative Shot Movies							
Short Clip Mix							
Image Search							

Choose a movie.

- Press the [MENU] button and choose [Play Creative Shot Movies] on the [2] tab (🛄29).
- Play Creative Shot Movies 08/08/2015 08/08/2015 08/08/2015 08/08/2015 SET OK MENU 숙

2 Play the movie.

Touch a movie to play it.

Viewing Short Movies Created When Shooting Still Images (Digest Movies)

Still Images Movies

View digest movies recorded automatically in [3] mode (235) on a day of still image shooting as follows.

Choose an image.

- Still images shot in [labeled with [
 - Choose a still image labeled with [7].



7/14

4

2 Play the digest movie.

- Touch [7], and then touch [OK].
- The movie recorded automatically on the day of still image shooting is played back, from the beginning.

After a moment, [will no longer be displayed when you are using the camera with information display deactivated (Q105).

Viewing by Date

Digest movies can be viewed by date.

- PLAY; E Story Highlights List/Play Digest Movies Play Creative Shot Movies Short Clip Mix Image Search
- Press the [MENU] button, choose [List/ Play Digest Movies] on the [12] tab, and then touch a date ($\square 29$).

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Checking People Detected in Face ID

Still Images Movies

If you switch the camera to simple information display mode (\square 105), the names of up to five detected people registered in Face ID ($\square 43$) will be displayed.



- Press the [INFO.] button several times to enter simple information display, and then choose an image by dragging left or right on the screen
- Names will be displayed on detected people.

If you prefer not to have names displayed on images shot using Face ID, choose MENU (□29) ► [►3] tab ► [Face ID Info] ▶ [Name Display] ▶ [Off].

Browsing and Filtering Images

Navigating through Images in an Index

1

66,

16120 (6) 👂 📊

Still Images Movies

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

Display images in an index.

- Move the zoom lever toward [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 [Q]. Fewer images are shown each time you move the lever.

2 Choose an image.

- Drag up or down on the screen to scroll through displayed images.
- Touch an image to choose it, and touch it again to view it in single-image display.
- You can also drag left or right across the screen to move the orange frame, and then hold the zoom lever toward [Q] to view an image in single-image display.

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- Pinch in to switch from single-image display to index display.
- To view more thumbnails per screen. pinch in again.
- Drag up or down on the screen to scroll through displayed images.
- To view fewer thumbnails per screen. spread your fingers apart.
- Touch an image to choose it, and touch it again to view it in single-image display.

Finding Images Matching Specified Conditions

Still Images Movies

Find desired images guickly on a memory card full of images by filtering image display according to your specified conditions. You can also protect (113) or delete (115) these images all at once.

★ Favorites	Displays images tagged as favorites (📖 118).			
Shot Date	Displays the images shot on a specific date.			
People Displays images with detected faces.				
♣ Still image/ Movie	Displays still images, movies, or movies shot in 🚮 mode (🗐 35).			
L'Name	Displays images of a registered person (QQ44).			









Choose the first condition

- In single-image display, press the [P] button, choose [66] in the menu, press the [] button again, and choose a condition.
- When [+] or [] is selected, you can view only images matching this condition by touching [4][b] or turning the [i]ring. To perform an action for all of these images together, press the [() button and go to step 3.

Choose the second condition and view the filtered images.

- When you have selected $[\bigcirc]$ or $[\begin{tabular}{l}]$ as the first condition, choose the second by touching []], and then turn the [] ring to view only matching images.
- To switch to filtered image display, press the [a] button and go to step 3.
- When you have selected [L] as the first condition, press the [1] button and choose a person on the next screen.

View the filtered images.

- Images matching your conditions are displayed in vellow frames. To view only these images, drag left or right across the screen.
- To cancel filtered display, press the [] button, choose [3] in the menu, and then press the [P] button.

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

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- To hide or view other information, press the [INFO] button in step 3.
- Options for viewing the images found (in step 3) include "Navigating through Images in an Index" (☐ 107), "Magnifying Images" (☐ 112), and "Viewing Slideshows" (☐ 113). You can also apply image operations to all images found, by choosing [Protect All Images in Search] in "Protecting Images" (☐ 113) or [Select All Images in Search] in "Erasing Multiple Images at Once" (☐ 116), "Adding Images to the Print List (DPOF)" (☐ 179), or "Adding Images to a Photobook" (☐ 181).
- If you edit images and save them as new images (µ121 µ126), a message is displayed, and the images that were found are no longer shown.

 After choosing conditions, you can view images matching your conditions by touching a condition again.

Using the Control Ring to Jump between Images

Still Images Movies

Use the control ring to find and jump between desired images quickly by filtering image display according to your specified conditions.

🛠 Jump to Favorites	Displays images tagged as favorites (🛱 118).
fo Jump Shot Date ?	Jumps to the first image in each group of images that were shot on the same date.
Single image	Jumps by 1 image at a time.
Jump 10 Images	Jumps by 10 images at a time.
📶 Jump 100 Images	Jumps by 100 images at a time.

Choose a condition.

 Choose a condition (or jump method) by pressing the [MENU] button and choosing [Image jump with ()] on the [1] 5] tab.

2 View images matching your specified condition, or jump by the specified amount.

 In single-image display, turn the [[)] ring to view only images matching the condition or jump by the specified number of images forward or back.

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Touch-Screen Operations



 You can also jump to the previous or next image according to your jump method chosen in step 1 of "Using the Control Ring to Jump between Images" (Q109) by dragging left or right with two fingers.

^I Viewing Individual Images in a Group

Still Images Movies

Images shot continuously (\square 42), images shot in [\square 1] mode (\square 55), and individual still images saved as source data in [\square 1] mode (\square 66) are grouped, and only the first image is displayed. However, you can also view the images individually.



Choose a grouped image.

 Browse images by dragging left or right until you find a desired image labeled [ST]].



2 Choose []].

• Press the [⁽)] button, and then choose [[[]]) in the menu ([[]]28).



3 View images in the group individually.

- Dragging images left or right will display only images in the group.
- To cancel group playback, press the [
 button, choose [
 <u>u</u>] in the menu, and press the [
 B) button again (
 <u>u</u>28).
- During group playback (step 3), you can browse through images quickly "Navigating through Images in an Index" (□107) and magnify them "Magnifying Images" (□112). You can apply your actions to all images in the group at once by specifying [Protect All Images in Group] in "Protecting Images" (□113), or by specifying [Select All Images] in "Erasing Multiple Images at Once" (□116), "Adding Images to the Print List (DPOF)" (□179), or "Adding Images to a Photobook" (□181).
- To ungroup images so that they are displayed only as single still images, choose MENU (□29) ▶ [▶ 5] tab ▶ [Group Images] ▶ [Off] (□29). However, grouped images cannot be ungrouped during individual playback.
- In [[]] mode, the simultaneous display after step 2 in "Enjoying a Variety of Images from Each Shot" ([]] 55) is only shown immediately after you shoot.

 You can also view group images individually by touching [SET] on the screen in steps 1 and 2.

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Editing Face ID Information

If you notice that a name is incorrect during playback, you can change it or erase it.

However, you cannot add names for people who are not detected by Face ID (names are not displayed), and for people whose names have been erased.

Changing Names



Access the setting screen.

- Press the [MENU] button and choose [Face ID Info] on the [▶3] tab (□29).
- Choose [Edit ID Info] and press the [[®]/₂] button.



2 Choose an image.

- Choose an image after dragging left or right to browse. Press the [(20)] button.
- To choose the name you want to overwrite, touch that person's face.



3 Choose the editing option.

- Touch [Overwrite].
- 4 Choose the name of the person to overwrite with.
- Touch the name of the person to use for overwriting.

 You can also access the [Edit ID Info] screen by touching an image on the screen in step 2, touching [SET] to display the orange frame, and then touching the face to overwrite its name.

Erasing Names

• On the screen displayed in step 3 in "Changing Names" (□111), touch	Basic Guide
[Erase]. ● After [Erase?] is displayed, touch [OK].	Advanced Guide
• Alter [Erase?] is displayed, touch [OK].	Camera Basics
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Image Viewing Options

Touch-Screen Operations



- Spread your fingers apart (pinch out) to zoom in.
- You can magnify images up to about 10x by repeating this action.
- To move the display position, drag across the screen.
- Pinch in to zoom out
- Touch [MENU] to restore single-image display.

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Magnifying Images





2 Move the display position and switch images as needed.

Moving the zoom lever toward [Q] will

zoom in and magnify the image. You

continuing to hold the zoom lever.

can magnify images up to about 10x by

 To move the display position, drag across the screen

Still Images Movies

- Press the [MENU] button to restore single-image display.
- To switch to other images while zoomed, turn the [] ring.

You can check the focus when [SET na] is displayed by pressing the [()] button to show the position in focus (Focus Check). When multiple positions are in focus, press the (P) button repeatedly to switch to other positions.

1 Magnify an image.



Viewing Slideshows

Still Images Movies

Automatically play back images from a memory card as follows.

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1						PLAY1
P	roted					
F	otate					
E	irase					
F	avori	tes				
S	lides	how				

- Press the [MENU] button, and then choose [Slideshow] on the [▶ 1] tab (□29).
- Touch [Start].
- 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 (Q26) are deactivated during slideshows.

- To pause or resume slideshows, press the [3] button.
- You can configure slideshow repetition, the display time per image, and the transition between images on the screen accessed by touching [Set up] (^[2]29).

You can also stop slideshows by touching the screen.
Slideshows can also be started by using Touch Actions (1119).

Protecting Images



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Choosing Images Individually

Selecting a Range

Index

Choose [Select].

• Following the procedure in "Using the Menu" ([] 113), choose [Select] and press the [()] button.



Accept changes?

Stop OK

Protect

2 Choose an image.

- Choose an image after dragging left or right to browse. Once you press the [^(C)] button, [^{CM}] is displayed.
- To cancel selection, press the [()] button again. [] is no longer displayed.
- Repeat this process to specify other images.

3 Protect the image.

- Press the [MENU] button. A confirmation message is displayed.
- Touch [OK].



 You can also select or clear images by touching the screen in step 2, and you can access the confirmation screen by touching [MINU].









1 Choose [Select Range].

- Following the procedure in "Using the Menu" (
 113), choose [Select Range] and press the (
) button.
- 2 Choose a starting image.
 Press the [[®]] button.
 - Choose an image after dragging left or right to browse. Press the [[®]] button.

- **3** Choose an ending image.
- Touch the bounded area to activate [Last image], and then press the [[®]] button.
- Choose an image after dragging left or right to browse. Press the [] button.
- Images before the first image cannot be selected as the last image.

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turning the [1] ring.

Protecting All Images at Once

step 4.

4 Protect the images.

You can also choose images on the screens in steps 2 and 3 by

• To cancel protection for groups of images, choose [Unlock] in

Touch [Protect].

Erasing Images

Still Images Movies

Before Use Basic Guide

You can choose and erase unneeded images one by one. Be careful when erasing images, because they cannot be recovered. However, protected images (113) cannot be erased.

- Choose an image to erase. 1
- Drag left or right across the screen to choose an image.

2 Erase the image.

- Press the [() button, and then choose $[\hat{m}]$ in the menu ($\square 28$).
- After [Erase?] is displayed, touch [Erase].
- The current image is now erased.
- To cancel erasure, touch [Cancel].

For images captured in both RAW and JPEG format, touching [SET Erase] while the image is displayed gives you the option of choosing [Erase]], [Erase PEG], or [Erase]+PEG].

Images can also be erased by using Touch Actions (^[]119).

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Choose [Protect All Images].

• Following the procedure in "Using the Menu" (113), choose [Protect All Images] and press the () 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.

Touch [OK].

Erase? Erase Cancel



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 (113) cannot be erased.

Choosing a Selection Method



Access the setting screen.

• Press the [MENU] button, and then choose [Erase] on the [1] tab (229).



Choosing Images Individually

Choose [Select]. 1

Following the procedure in "Choosing" a Selection Method" (Q116), choose [Select] and press the [3] button.

2 Choose an image.

- Choose an image after dragging left or right to browse. Once you touch the screen, $[\checkmark]$ is displayed.
- To cancel selection, touch the screen 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.
- Touch [OK].

Choosing an image captured in both RAW and JPEG format will

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Erase Select Select Range Select All Images MENU ᠫ

2 Choose a selection method.

Choose the selection method, and then press the [P] button.

• To return to the menu screen, press the [MENU] button.

• Touch [MENU] to return to the menu screen

Erase? Stop OK

Frase

erase both versions



Selecting a Range

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Choose [Select Range].

Following the procedure in "Choosing" a Selection Method" (Q116), choose [Select Range] and press the [3] button.

Choose images.

Follow steps 2 – 3 in "Selecting a Range" (114) to specify images.



3 Erase the images.

Touch [Erase].

Specifying All Images at Once



- **2** Erase the images.

Choose [Select All Images].

Following the procedure in "Choosing"

a Selection Method" (116), choose [Select All Images] and press the [P]

Touch [OK].

button.



Protect

Rotate

Favorites Slideshow Rotation is not possible when [Auto Rotate] is set to [Off] (118).

Using the Menu



Change the orientation of images and save them as follows.

1 Choose Ial.

Choose [Rotate].

• Press the [MENU] button and choose [Rotate] on the [1] tab (29).

• Press the [(B)] button, and then choose

• Each time you drag an option, the image

is rotated 90° in that direction. Press the

(a) button to complete the setting.

[10] in the menu (128).

2 Rotate the image.



2 Rotate the image.

- Drag left or right across the screen to choose an image.
- The image is rotated 90° each time you press the [2] button.
- To return to the menu screen, press the [MFNI] button.

On the screen in step 2, you can also touch [SET] to rotate images or touch [MENU] to return to the menu screen.

Deactivating Auto Rotation

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



Press the [MENU] button, choose [Auto Rotate] on the [5] tab, and then choose [Off] (29).



Images cannot be rotated (QQ 117) when you set [Auto Rotate] to [Off]. Additionally, images already rotated will be displayed in the original orientation.



Tagging Images as Favorites

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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" (Q103), "Viewing Slideshows" (Q113), "Protecting Images" (Q113), "Erasing Images" (Q115), "Adding Images to the Print List (DPOF)" (179). "Adding Images to a Photobook" ([]181)



- Press the [] button, choose [+] in the menu, and then choose $[\star]$. $[\star]$ is displayed
- To untag the image, repeat this process and choose [OFF], and then press the [all button.

Using the Menu

			1	ŕ		
						PLAY
Pr	otec	:t				
R	otate					
Er	ase					
Fa	ivori	tes				
SI	ides	how				



Choose [Favorites].

• Press the [MFNU] button and choose [Favorites] on the [1] tab (29).

2 Choose an image.

- Choose an image after dragging left or right to browse. Once you press the [button, [] is displayed.
- To untag the image, press the [] button again. [] is no longer displayed.
- Repeat this process to choose additional images.

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3 Finish the setup process.

- Press the [MENU] button. A confirmation message is displayed.
- Touch [OK].

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.

- Tagging images as favorites makes it easier to add them when creating albums (127).
- Images can also be tagged as favorites by using Touch Actions (119).
- To specify multiple images at once, move the zoom lever toward for index display, and then touch images to choose them.



ag as Favorite

Drag across the screen as shown. • The function assigned to [activated.

Still Images Movies



- Similarly, you can also activate functions assigned to $[\rightarrow]$, $[\leftarrow]$, and $[\leftarrow]$ by dragging across the screen.
- Customize functions assigned to Touch Actions as desired.

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Auto Mode /

You can guickly and easily activate functions that you have assigned to four touch gestures (Touch Actions), in single-image display.

Using Touch Actions Functions

Convenient Control: Touch Actions





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Changing Touch Actions Functions

Simplify your preferred camera operations by reassigning dragging patterns to them as desired.

Access the setting screen.

 Press the [MENU] button, and then choose [Set Touch Actions] on the [▶6] tab (□29).

Set Touch	Actions
٦	Favorites
L_	To Smartphone
ы. Г.	Erase
L.	Slideshow
	MENU

2 Assign a function to a Touch Action.

- Choose a dragging pattern, and then press the [() button.
- Choose a function to assign.

Slideshow	Start a slideshow.
Erase	Erase an image.
Protect	Protect an image or cancel protection.
Rotate	Rotate an image.
Favorites	Tag images as favorites, or untag the image.
Next Favorite	Switch to displaying the next image tagged as a favorite.
Previous Favorite	Switch to displaying the previous image tagged as a favorite.
Next Date	Switch to displaying the first image with the next shooting date.
Previous Date	Switch to displaying the first image with the previous shooting date.
To Camera	
To Smartphone	Access the Wi-Fi connection screen.
To Computer	For Wi-Fi details, see "Wi-Fi Functions"
To Printer	((131).
To Web Service	

Assignable Functions

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Editing Still Images

- Image editing (\$\$\overline\$121 \$\$\$\$124) is only available when the memory card has sufficient free space.
- When [MENU] is shown on an editing screen, you can touch [MENU] instead of pressing the [MENU] button, if you prefer.
 When [SET] is shown on an editing screen, you can touch
 - [SET] instead of pressing the [(button, if you prefer.

Resizing Images

Still Images Movies

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



Choose an image size.

- Press the (
) button, choose [
] in the menu, and choose an image size (
 28).
- Touch [M2] or [S], and then press the [B] button.



2 Save the new image.

- Touch [OK].
- The image is now saved as a new file.



Cropping

Still Images Movies

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

(228).



12 5

R E43

2 Resize, move, and adjust the aspect ratio of the cropping frame.

menu, and then press the [3] button

• To resize the frame, move the zoom lever.

Access the setting screen. Press the (இ) button, choose (句) in the

- To move the frame, drag on the screen.
- To change the frame orientation, touch
 [¹/₂].

3 Preview the cropped image.

- Touch [⊡+].
- To switch display between the cropped image and the cropping frame, press the [[®]] button repeatedly.

4 Save as a new image and review.

- Touch [1].
- Follow steps 2 3 in "Resizing Images" (2) 121).

- - Editing is not possible for images shot at a recording pixel setting of [S] or resized to [S] ([]121).
 - RAW images cannot be edited.
 - Cropped images cannot be cropped again.
 - Cropped images cannot be resized.
 - Cropped images will have a lower number of recording pixels than uncropped images.
 - While previewing the cropped image in step 3, you can resize, move, and adjust the aspect ratio of the cropping frame.
 - Operations in step 2 are also possible by pressing the [MENU] button, choosing [▶3] tab ▶ [Cropping], pressing the [⊕] button, choosing an image, and pressing the [⊕] button again.
 - If you crop still images shot using Face ID (¹43), only the names of the people left in the cropped image will remain.
 - You can also resize frames by pinching in or out (Q112) on the screen.

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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)" (279).

			1	ŕ		
1					PL	AY:
i-	Cont	rast				
F	lesize					
C	ropp	ing				
F	ed-E	ye Co	orrec	tion		
N	/ly Co	lors				
F	ace I	D Inf	0			

Choose [My Colors].

- Press the [MENU] button, and then choose [My Colors] on the [▶3] tab (229).
- Choose an image. 2
- Choose an image after dragging left or right to browse. Press the [3] button.



- 3 Choose an option.
- Touch an option, and then press the [[®]] button.



Display n	ew image?	
Yes	No	

The image is now saved as a new file.

Touch [OK].

Save the new image.

5 Review the new image.

- Press the [MENU] button.
- Touch [Yes].
- The saved image is now displayed.

- Before Use Image guality of pictures you repeatedly edit this way will be a little lower each time, and you may not be able to obtain the Basic Guide desired color. Colors of RAW images cannot be edited. Advanced Guide The color of images edited using this function may vary slightly Camera Basics from the color of images shot using My Colors (\square 79). Auto Mode / Hvbrid Auto Mode You can also configure this setting by touching an option to select **Other Shooting Modes** it on the screen in step 3 and then touching it again. P Mode **Correcting Image Brightness (i-Contrast)** Tv. Av. M. and C Mode Still Images Movies Excessively dark image areas (such as faces or backgrounds) can be Playback Mode 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 Wi-Fi Functions image as a separate file. Setting Menu Choose [i-Contrast]. 2 3 4 5 6 Press the [MFNI] button, and then Accessories
 - choose [i-Contrast] on the [13] tab (229).
 - 2 Choose an image.

i-Contrast

Cropping

My Colors

Face ID Info

Red-Eve Correction

Resize

Choose an image after dragging left or right to browse. Press the [P] button.



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3 Choose an option.

- Touch [◀][▶] to choose an option, and then press the [இ] button.
- **4** Save as a new image and review.
- Follow steps 4 5 in "Changing Image Color Tones (My Colors)" (Q123).

• For some images, correction may be inaccurate or may cause images to appear grainy.

- Images may look grainy after repeated editing using this function.
- RAW images cannot be edited this way.

 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			
1					PL/	٩Y
i-	Cont	rast				
R	esize					
C	ropp	ing				
R	ed-E)	re Co	orrec	tion		
N	ly Co	lors				
E	ace II) Inf	ò			

Choose [Red-Eye Correction].

 Press the [MENU] button, and then choose [Red-Eye Correction] on the [1] 3] tab (29).

2 Choose an image.

 Drag left or right across the screen to choose an image.

3 Correct the image.

- Press the [@] 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" (
 (
 (
 112).

Save as a new image and review.

- Touch [New File].
- The image is now saved as a new file.

• 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.

d-Eve Correc

New File

Cance

- RAW images cannot be edited this way.
- Red-eye correction can be applied to JPEG images also captured in RAW format, but the original image cannot be overwritten.
- You can also save images by touching [New File] or [Overwrite] on the screen in step 4.

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Editing Movies

Still Images Movies

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



Choose [<mark>%</mark>].

- Choose [⅔] as described in steps 1 5 in "Viewing" (□103).
- 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.
- Choose [‰] or []%].
- To view the portions you can cut (identified by [&] on the screen), drag
 []. 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
 [𝔅] mark, in [𝔅] the portion before the nearest [𝔅] mark on the left will be cut, while in [𝔅] the portion after the nearest
 [𝔅] mark on the right will be cut.

3 Review the edited movie.

- Touch [>] to play the edited movie.
- To edit the movie again, repeat step 2.
- To cancel editing, press the [MENU] button, and then touch [OK].





- The following movies cannot be edited this way: digest movies (\$\lambda\$35), Creative Shot movies (\$\lambda\$56), or albums without background music (\$\lambda\$128).
- 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.

4 Save the edited movie

Touch [Save w/o Comp.].

• The movie is now saved as a new file

● Touch [[*]].

Touch [New File].

- 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 or an AC adapter kit (sold separately, 💭 168).

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Reducing File Sizes

Movie file sizes can be reduced by compressing movies as follows.



- On the screen in step 2 of "Editing Movies", choose [[1]], and then choose [New File].
- Touch [Compress & Sav.].

Image Quality of Compressed Movies

Before Compression	After Compression
[≝] FHD 59.94P	[≝] HD 29.97P
¹ FHD 29.97P	[≝] HD 29.97P
¹ FHD 23.98P	[≝] HD 23.98P
[≝] HD 29.97P	[≝] HD 29.97P
¹ FHD 50.00P	[≝] HD 25.00P
¹ FHD 25.00P	[≝] HD 25.00P
[≝] HD 25.00P	[≝] HD 25.00P
EHD 29.977 EHD 50.007 EFHD 25.007	Image: Http://www.image: Http://wwww.image: Http://www.image: Http://www.image: Http://www.image:



[[#]VGA 29.97P][[#]VGA 25.00P] movies cannot be compressed.

Edited movies cannot be saved in compressed format when you choose [Overwrite].

Erasing Movie Chapters

Still Images Movies

Individual chapters (clips) recorded in [\Im] or [\Im] mode (\square 35, \square 56) can be erased. Be careful when erasing clips, because they cannot be recovered.



this clin

OK

1 Select the clip to erase.

- Play a short movie as described in steps 1 – 2 of "Viewing Short Movies Recorded in Creative Shot Mode (Creative Shot Movies)" (Q106) or "Viewing Short Movies Created When Shooting Still Images (Digest Movies)" (Q106), and then press the (P) button to access the movie control panel.
- Touch [] or [] to choose a chapter.
- **2** Choose [#].
- Touch [衞].
- The selected clip is played back repeatedly.

3 Confirm erasure.

- Touch [OK].
- The clip is erased, and the short movie is overwritten.

• [*] is not displayed if you select a clip when the camera is connected to a printer.

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Viewing Albums (Story Highlights)

Still Images Movies

You can choose themes such as a date or person's name to create an album of automatically selected images that match the theme. These images are combined into a slideshow that can be saved as a short movie of about 2-3 minutes.

Before using this feature, make sure the battery pack is fully charged. Creating albums also requires free space on the memory card. As a guideline, use a memory card with a capacity of 16 GB or higher, and ensure at least 1 GB of free space.

Choosing Themes for Albums

Press the [R] button and choose the Story Highlights icon. The home screen is displayed, and you can choose the theme for the camera to use when selecting album elements. Note that the camera is more likely to add images tagged as favorites (\fbox{R} 118) to albums.

Date	Creates an album of images shot on the same day. Images are selected from those shot on the same day as the image displayed before you access the home screen.
Person's name	Can be used to create monthly albums of people, such as albums of children as they grow up. Subjects whose Face ID information you registered before shooting may be selected for albums. Images selected are those that have the same subject shot during the same month as the image displayed before you access the home screen.
Event	A good choice for albums of vacations, parties, or other events. Images are selected from those shot during the event before and after the image displayed before you access the home screen.
Custom	Includes images based on your specified images, dates, or people registered in Face ID.











Choose an image.

- Choose an image in single-image display.
- Themes available in step 3 will vary depending on image shooting date and Face ID information.

2 Access the home screen.

- Press the [[®]] button, choose [¹], and then press the [[®]] button (¹28).
- After [Busy] is displayed, the home screen is displayed.

3 Preview an album.

- Choose a person or [Date] or [Event] as the album theme, and then press the [[®]] button.
- After [Loading] is displayed for a few seconds, the album is played.
- **4** Save the album.
- Choose [Save Album as Movie], and then press the [[®]] button.
- Once the album is saved, [Saved] is displayed.
- **5** Play the album (\square 103).

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- Albums can include following images captured by the camera. - Still images
- Digest movies (QQ35), except compressed movies
- Short movie clips (^{[[1]}71) of two seconds or longer, or Creative Shot movies (^{[[1]}56), except compressed movies
- Creative Shot movies (1=350), except compressed movies
- Albums cannot be saved unless there is enough space on the memory card.
- You can also access the Story Highlights home screen by choosing MENU (□29) ► (►2] tab ► [□] Story Highlights].
- To jump to the next chapter during the preview, drag left, and to jump to the previous chapter, drag right.
- You can specify the color effect in step 4 by choosing [Change Color Effect] and pressing the () button. To preview how the album looks with your selected effect applied, choose [Preview Album Again] on the screen in step 4 after dragging left or right to choose a color effect and pressing the () button.
- To play saved albums, choose [List of Albums] on the Story Highlights home screen, press the [()] button, and touch a listed album.

Adding Background Music to Albums

Still Images Movies

Choose from seven kinds of background music to play during album playback.

Register background music to a memory card.

 Following steps 1 – 4 in "Viewing Albums (Story Highlights)" ([127), choose [Music Settings] and press the [[®]] button.

Enable Background Music

Before you can add music, it must be prepared on a new*formatted memory card (takes few minutes) Prepare BGM now?



- The screen at left is displayed when you use a new or recently formatted memory card. Touch [OK] and wait until the seven types of music are registered to the card, which takes about four minutes.
- When using a memory card with music already registered to it, go to step 2.
- **2** Create the album.
- Follow steps 1 3 in "Viewing Albums (Story Highlights)" (^[]127) to create an album.
- **3** Configure background music settings.
- Choose an item, press the [[®]) button, and choose an option (¹)29).
- 4 Save the album.
 - Follow step 4 in "Viewing Albums (Story Highlights)" (^[]127) to save albums.
- Once albums are saved, background music cannot be added later. Background music in albums cannot be removed or changed.
- Chapters of albums with background music cannot be edited (D126).
- If you prefer not to add background music, set [Add BGM] to [No] on the screen in step 3.
 - To use only background music instead of movie audio, set [Audio Mixer] to [BGM only] on the screen in step 3.
 - To listen to a sample of the background music selected in [Track], choose [Sample BGM] on the screen in step 3 and press the [[®]/₄] button.

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Music Settings Add BGM Yes Audio Mixer BGM+Sound Track 1 Sample BGM

Creating Your Own Albums

Still Images Movies

Create your own albums by choosing desired images.



Following steps 1 – 3 in "Viewing Albums" (Story Highlights)" (2127), choose [Custom] and press the [3] button.



2 Choose a selection method.

Choose [Image Selection], [Date Selection], or [Person Selection], and then press the [3] button.

Choose album elements.

- Touch elements for your album to label them with $[\sqrt{}]$.
- Press the [MENU] button after you are finished selecting still images, short clips, or Creative Shot movies in [Image Selection], dates in [Date Selection], or people in [Person Selection].
- Choose [Preview] and press the [[®]] button.

Choose an Operation Preview Album Again Save Album as Movie Music Settings Change Color Effect

MENU 🕤

4 Choose background music.

 When the screen at left is displayed, choose [Music Settings]. Add background music as described in "Adding Background Music to Albums" (2128), and then press the [MFNU] button.



5 Choose a color effect.

- On the screen in step 4, choose [Change Color Effect1.
- Drag left or right to choose a color effect. and then press the [3] button.
- 6 Save the album.
- Follow step 4 in "Viewing Albums (Story) Highlights)" (2127) to save albums.
- You can specify up to 40 files (or 10 movie files) after choosing [Image Selection]. The second time you create a custom album, [Select images based on previous settings?] is displayed. To use previously selected images as the basis, choose [Yes]. The previous stills, clips, or Creative Shot movies are labeled with $[\checkmark]$, and multiple images are displayed.
 - Up to 15 dates can be selected if you choose [Date Selection].
- The color effect may not be applied to some images.



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Combining Short Clips

Still Images Movies

Combine short clips to create a longer movie. Note that movies created this way are not included in Story Highlights albums (22127).



MENU Merge #Select Short Clips 111: ₽°10 SET Add

Access the editing screen.

- Press the [MFNU] button, choose [Short Clip Mix] on the [12] tab, and then choose [Merge Clips] (Q29).
- **2** Specify clips to combine.
- Drag clips on the top of the screen left or right, choose a clip to combine, and press the I button.
- Your selected clip is displayed on the bottom of the screen.
- To cancel selection, press the [[®]] button again
- Repeat these steps to specify other clips to combine
- After you are finished selecting clips, press the [MFNI] button.

Choose an Operation Preview Save Music Settings Change Color Effect Cancel Merging 🖧 MENU 🕤

3 Preview the movie.

- Choose [Preview] and press the [[®]] button.
- After [Loading] is displayed for a few seconds, a preview of the combined clips is played.

4 Save the movie.

- Choose [Save] and press the [P] button.
- Once the movie is saved. [Saved] is displayed.
- 5 Play the movie.
- Choose [Play Back Revie] on the screen in step 1 to view a list of movies vou have created.
- Choose the movie to play and press the [all button.
- To play the selected clip, move the zoom lever toward [1] on the screen in step 2.
 - To rearrange clips, touch [Sort] on the screen in step 2, select a clip, press the () button, drag left or right, and press the () button again.
 - To apply a color effect, choose [Change Color Effect] on the screen in step 3.
 - To add background music, choose [Music Settings] on the screen in step 3 (128).
 - The image quality of movies saved is [H] 2997P] (for NTSC) or [HD 25.00P] (for PAL).
 - Use a fully charged battery pack, if possible.

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SET OK

Play Back 🚜 Movie

3 Clips 0'06" 🎵

20 Clips 0'45" J 20 Clips 0'20" J

MENU 🕤

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 "Wi-Fi (Wireless LAN) Precautions" (^[]209).

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. You can also shoot remotely and geotag your shots from a smartphone or tablet.

For convenience in this manual, 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.





Sending Images to a Smartphone

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

- Connect via NFC (^[]132) Simply touch an NFC-compatible Android smartphone (OS version 4.0 or later) against the camera to connect the devices.
- Connect to a device assigned to the [] button ([]134) Simply press the [] button to connect the devices. This simplifies sending images to a smartphone ([]134). Note that only one smartphone can be assigned to the [] button.
- Connect via the Wi-Fi menu (¹136) 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 owners who use CameraWindow to connect their camera via Wi-Fi to a smartphone should consider switching to the Camera Connect mobile app.

Sending Images to an NFC-Compatible Smartphone

Use an Android (OS version 4.0 or later) 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, you can also shoot remotely and geotag your shots (QQ 155). 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. The connection is ended automatically after image transfer.

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



Install Camera Connect.

 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.

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Connecting Connected smart device can now operate camera and access images on memory card No Yes

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.
- If the [Device Nickname] screen is displayed, touch [OK].

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

3 Adjust the privacy setting.

- When this screen is displayed, touch [Yes].
- You can now use the smartphone to browse, import, or geotag images on the camera or shoot remotely.



4 Send an image.

- Drag images left or right to choose an image to send, and then touch [Send this image].
- Image transfer will begin. The screen darkens during image transfer.
- [Transfer completed] is displayed after the image is sent, and the image transfer screen is displayed again.
- To end the connection, touch [MINU] in the upper right of the screen, and then touch [OK] on the confirmation screen. 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 (¹156).

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- M.
 - Connections require that a memory card be in the camera.
 - You can also change the camera nickname on the screen in step 2 (1157).
 - Not all NFC-compatible smartphones have an N-Mark (N). For details, refer to the smartphone user manual.
 - You can also send multiple images at once and change the image size before sending (Q150).
 - To disable NFC connections, choose MENU (□29) ► [♥4] tab
 [Wi-Fi Settings] ► [NFC] ► [Off].

Connecting via NFC When Camera Is in Playback Mode



- Press the [**b**] button to turn the camera on.
- Touch the smartphone with Camera Connect installed (¹132) against the camera's N-Mark (¹).
- Touching an image to send will label it with a [√] icon.
- To cancel selection, touch it again. [✓] is no longer displayed.
- Repeat this process to choose additional images.
- After you finish choosing images, press the [MENU] button, and then touch [OK].
- Touch [Send].
- The images are now sent. The connection is ended automatically after the image is sent.

- If during connection a message on the camera requests you to enter the nickname, enter it as described in "On-Screen Keyboard" (^[]30).
- 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 (Q150).

Sending to a Smartphone Assigned to the Button

Once you have connected to a smartphone initially by pressing the [] button, you can simply press the [] button after that to connect again for viewing and saving camera images on your connected device. These steps show how to use the camera as an access point, but you can also use an existing access point ([]137).



Install Camera Connect.

- For an iPhone or iPad, find Camera Connect in the App Store and download and install the app.
- For Android smartphones, find Camera Connect in Google Play and download and install the app.
- **2** Press the []] button.
- Press the []] button.

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 If the [Device Nickname] screen is displayed, touch [OK]. 	Select a Device 6 Choose the smartphone to connect to. Refresh Touch the page of the amortphone	Before Use
uispiayeu, touch [OK].	Touch the name of the smartphone. After a connection is established with the smartphone, the smartphone name	Basic Guide
cel	Search complete is displayed on the camera. (This screen will close in about one minute.)	Advanced Guide
3 Choose []].	7 Import images.	Camera Basics
• Touch []].	Use the smartphone to import images from the camera to the smartphone.	Auto Mode / Hybrid Auto Mode
<u>5</u>	 Use the smartphone to end the connection; the camera will automatically turn off. 	Other Shooting Modes
• The camera's SSID is displayed.	 Connections require that a memory card be in the camera. 	P Mode
	 You can also change the camera nickname on the screen in step 2 (µ157). For better security, you can display a password on the screen 	Tv, Av, M, and C Mode
rk _	in step 3 by accessing MENU (Q29) and choosing [♥4] tab ► [Wi-Fi Settings] ► [Password] ► [On]. In this case, in the	Playback Mode
4 Connect the smartphone to the network.	 password field on the smartphone in step 4, enter the password displayed on the camera. One smartphone can be registered to the []] button. To assign 	Wi-Fi Functions
 In the smartphone's Wi-Fi setting menu, choose the SSID (network name) 	a different one, first clear the current one in MENU (^{[[2]} 29) ► [^[4] 1 tab ► [Mobile Device Connect Button].	Setting Menu
displayed on the camera to establish a connection.	 Once a connection destination is assigned in Touch Actions (119), you can automatically reconnect to a previous destination simply by dragging across the screen with the 	Accessories
5 Start Camera Connect.	assigned gesture.	Appendix
 Start Camera Connect on the smartphone. 		Index
 After the camera recognizes the smartphone, a device selection screen is displayed. 		

Device Nickname

XXXXX

Enter a nickname for this camera

Mobile Device Connect Button

Waiting to connect

Register a destination for one-touch connection

Connect target device to this access point and start app SSID: XXXX_XXXX_XXXX Cancel Switch Network

MENU Cancel

MENU 🖆

Adding a Smartphone Using the Wi-Fi Menu

These steps show how to use the camera as an access point, but you can also use an existing access point (\square 137).



Install Camera Connect

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



2 Access the Wi-Fi menu. • Press the [] button.

- Press the [⁽P)] button.
- Touch [(1)]. and then press the [3] button.
- If the [Device Nickname] screen is displayed, choose [OK] (2134).



• Touch []].

3 Choose []].



4 Choose [Add a Device].

Touch [Add a Device].

Waiting to connect Connect target device to this access point and start app SSID: XXXX XXXXX XXXX Switch Network





- The camera's SSID is displayed.
- Choose the smartphone to connect to. as described in steps 4 – 6 of "Sending to a Smartphone Assigned to the Button" (134).

5 Adjust the privacy setting.

- Touch [Yes].
- You can now use the smartphone to browse, import, or geotag images on the camera or shoot remotely.

6 Send an image.

- Drag images left or right to choose an image to send, and then touch [Send this imagel.
- Image transfer will begin. The screen darkens during image transfer.
- [Transfer completed] is displayed after the image is sent, and the image transfer screen is displayed again.
- To end the connection, touch [MINU] in the upper right of the screen, and then touch [OK] on the confirmation screen. You can also use the smartphone to end the connection.
- To add multiple smartphones, repeat the above procedure starting from step 1.

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 $\mathbf{\hat{1}}$

All images in the camera can be viewed from the connected smartphone when you choose [Yes] in step 5. To keep camera images private, so that they cannot be viewed from the smartphone, choose [No] in step 5.

- Once you have registered a smartphone, you can change privacy settings for it on the camera (Q156).
- 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. Simply touch a listed device to connect again. You can register new devices by dragging left or right to access the device selection screen.
- If you prefer not to display recent target devices, choose MENU
 (□29) ▶ [♥4] tab ▶ [Wi-Fi Settings] ▶ [Target History] ▶ [Off].
- You can also send multiple images at once and change the image size before sending (^[2]150).
- Once a connection destination is assigned in Touch Actions (
 (
 (
 119), you can automatically reconnect to a previous destination simply by dragging across the screen with the assigned gesture.

Using Another Access Point

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

Prepare for the connection.

 Access the [Waiting to connect] screen by either following steps 1 – 3 in "Sending to a Smartphone Assigned to the Button" (1134) or steps 1 – 4 in "Adding a Smartphone Using the Wi-Fi Menu" (1136).



For non-WPS access points, follow steps 2 – 4 in "Connecting to Listed Access Points" (1142) to connect to the access point and choose the smartphone.

5 Configure the privacy settings and send images.

 Follow steps 5 – 6 in "Adding a Smartphone Using the Wi-Fi Menu" (Q136) to configure the privacy settings and send images.

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Previous Access Points

To reconnect to a previous access point automatically, follow step 3 in "Sending to a Smartphone Assigned to the Button" (\square 134) or step 4 in "Adding a Smartphone Using the Wi-Fi Menu" (\square 136).

- 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 reconnect to a previous access point, follow the procedure from step 5 in "Using Another Access Point" (
 137).
- 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" (1137) from step 4.

Saving Images to a Computer Refore Use **Basic Guide** Preparing to Register a Computer Advanced Guide **Checking Your Computer Environment** Camera Basics The camera can connect via Wi-Fi to computers running the following Auto Mode / operating systems. For detailed system requirements and compatibility Hvbrid Auto Mode information, including support in new operating systems, visit the Canon website. **Other Shooting Modes** Windows 8/8 1 Windows 7 SP1 P Mode Mac OS X 10.9 Mac OS X 10.8.2 or later Tv. Av. M. and C Mode Windows 7 Starter and Home Basic editions are not supported. Playback Mode Windows 7 N (European version) and KN (South Korean version) require a separate download and installation of Windows Media Wi-Fi Functions Feature Pack. For details, check the following website. http://go.microsoft.com/fwlink/?LinkId=159730 Setting Menu Accessories Installing the Software Windows 7 and Mac OS X 10.8 are used here for the sake of illustration. Appendix Download the software. Index 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.
- The compressed software is now downloaded to your computer.



2 Begin the installation.

- Double-click the downloaded file, and when the screen at left is displayed, click [Easy Installation]. Follow the on-screen instructions to complete the installation process.
- Installation may take some time, depending on computer performance and the Internet connection.
- Click [Finish] or [Restart] on the screen after installation.

 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.
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.

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.

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.
- 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.

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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 "Camera" (204).

Connection methods vary depending on whether the access point supports Wi-Fi Protected Setup (WPS, 2140) or not (2142). 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.

- 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 (□29)
 If 41 tab ► [Wi-Fi Settings] ► [Check MAC Address].

Using WPS-Compatible Access Points

Device Nickname

XXXXX

Enter a nickname for this camera

Manu Cance

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.

2 Access the Wi-Fi menu.

- Press the [] button.
- Press the [] button.
- Touch [('
)], and then press the [
) button.
- If the [Device Nickname] screen is displayed, touch [OK].

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Select a Device Add a Device Edit a Device

Select Network	
Refresh	i
WPS Connection	
AccessPoint1	0-m
AccessPoint2	o-n
	MENU 🕤

WPS Connection
PBC Method
PIN Method

Touch [.].
4 Choose [Add a Device].
Touch [Add a Device].

3 Choose [□].

5 Choose [WPS Connection].
 • Touch [WPS Connection].

6 Choose [PBC Method].
• Touch [PBC Method].

WPS	Connectio	n	
		hold the ac en proceec	point
		Next	





Hardware and Sound View devices and printers Add a device

(· · · · · · · · · · · · · · · · · · ·	
Select a device to add to this computer	
Proders and construction back for new designs and display the	en here.
Fall Countries	
and Comm	
What A Mendaus Assess hand multimed	
	Nec Car

7 Establish the connection.

- On the access point, hold down the WPS connection button for a few seconds.
- Touch [Next].
- The camera connects to the access point and lists devices connected to it on the [Select a Device] screen.

8 Choose the target device.

• Touch the name of the target device, and then press the [[®]] button.

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].
- 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.

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10 Display CameraWindow.

- Windows: Access CameraWindow by clicking [Downloads Images From Canon Camera].
- Mac OS: CameraWindow is automatically displayed when a Wi-Fi connection is established between the camera and computer.

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.
- Use Digital Photo Professional to view images you save to a computer. To view movies, use preinstalled or commonly available software compatible with movies recorded 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. Simply touch a listed device to connect again. To add a new device, display the device selection screen by touching [◀][▶], and then configure the setting.
- If you prefer not to display recent target devices, choose MENU
 (□29) ▶ [♥4] tab ▶ [Wi-Fi Settings] ▶ [Target History] ▶ [Off].
- You can also change the camera nickname on the screen in step 2 (\square 157).
- When the camera is connected to a computer, the camera screen is blank.
- Mac OS: If CameraWindow is not displayed, click the [CameraWindow] icon in the Dock.
- To disconnect from the camera, turn off the camera.
- If you chose [PIN Method] 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.
- Once a connection destination is assigned in Touch Actions (
 (
 (
 119), you can automatically reconnect to a previous destination simply by dragging across the screen with the assigned gesture.

Connecting to Listed Access Points

View the listed access points.

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Select Network	
Refresh	
WPS Connection	
AccessPoint1	0
AccessPoint2	0-m
	MENU ᠫ

Password E	intry
Ent	er a password
	urity: WPA2-PSK (AES)
Jec	unity. WPA2-P3R (AL3)

-	
L	Next
	MENU Cancel
	Mano Garree

Network Settings

Auto

Manual

2 Choose an access point.

 Touch a network (access point) to choose it.

3 Enter the access point password.

- Touch the text box (in the area outlined, in this example) to access the keyboard, and then enter the password (🗐 30).
- Touch [Next].

4 Choose [Auto].

- Touch [Auto].
- To save images to a connected computer, follow the procedure from step 8 in "Using WPS-Compatible Access Points" (
 140).
- 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 (\$\logseq\$140).
- 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, touch [Next].

Previous Access Points

You can reconnect to any previous access points automatically by following step 4 in "Using WPS-Compatible Access Points" (1140).

- 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" (Q140).
- 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" (Q140) from step 5 or the procedure in "Connecting to Listed Access Points" (Q142) from step 2.



Before Use



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.

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.



SET USP Wi-F

Enter a nickname for this camera

Upload to Web service

MENU Cancel

MENU 🕤

Device Nickname

XXXXX

Ð

- **1** Access the Wi-Fi menu.
- Press the [▶] button to turn the camera on.
- Press the [[®]] button.

2 Choose [

Touch []

- Touch [('p')], and then press the [P] button.
- If the [Device Nickname] screen is displayed, touch [OK].

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WPS Connection	
AccessPoint1	(
AccessPoint2	(

Camera We	b Link Settings
Enter y	our e-mail address to
receive	the link to initiate setup
XXXXXX	
[Next
	MENU Cance

Camera W	/eb Link Setting:	5
	a 4-digit code o e for verification	

	Next	
		MENU Cance

3 Accept the agreement to enter an email address.

Read the agreement displayed and touch [I Agree].

Establish a connection with an access point.

Connect to the access point as described in steps 5 – 7 in "Using WPS-Compatible Access Points" (\square 140) or in steps 2 – 4 in "Connecting to Listed Access Points" (142).

Enter vour email address. 5

- 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 and touch [Next].

6 Enter a four-digit number.

- Enter a four-digit number of your choice and touch [Next].
- You will need this four-digit number later when setting up linkage with CANON iMAGE GATEWAY in step 8.



Notification

₽

arrive check your email ac-

count settings. Upon reception.

OK

Upload to Web service

Ġ.

MENU 🕁

MENU 🕁

access the URL and complete

Camera Web Link settings

7 Check for the notification message. Canon emailed you. If it doesn't

- Once information has been sent to CANON iMAGE GATEWAY, you will receive a notification message at the email address entered in step 5.
- Touch [OK] on the next screen, which indicates that notification has been sent.

8 Access the page in the notification

From a computer or smartphone.

message and complete camera link

• [1 now changes to [1.]



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Follow the instructions to complete the settings on the camera link settings page.

access the page linked in the notification

- **9** Complete CANON iMAGE GATEWAY settings on the camera.
- Touch [

settinas.

message.

- [] (152) 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" (2146).

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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 (157).
- Once you have connected to devices via the Wi-Fi menu, recent destinations will be listed first when you access the menu. Drag left or right to access the device selection screen and then configure the setting.
- Once a connection destination is assigned in Touch Actions (119), you can automatically reconnect to a previous destination simply by dragging across the screen with the assigned gesture.

Registering Other Web Services

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



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.



- Configure the Web service you want to use.
 - Follow the instructions displayed on the smartphone or computer to set up the Web service



3 Choose [A].

- In Playback mode, press the [[®]] button.
- Touch $[(\Psi)]$, and then press the $[\mathbb{R}]$ button
- Drag left or right on the screen, and then touch [
- 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



Access the Wi-Fi menu.

- Press the []] button to turn the camera on.
- Press the [() button.
- Touch [((p))], and then press the [P] button

2 Choose the destination.

- Touch the icon of the Web service to connect to.
- If multiple recipients or sharing options are used with a Web service, touch the desired item on the [Select Recipient] screen displayed, and then press the [P] button

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3 Send an image.

- Drag images left or right to choose an image to send, and then touch [Send this image].
- When uploading to YouTube, read the terms of service, and touch [I Agree].
- Image transfer will begin. The screen darkens during image transfer.
- After the image is sent, touch [OK] on the screen displayed to return to the playback screen.
- 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 (Q150).
- 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.

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 (\square 137).

also use an existing acces	s point ($[]_{a}$ 137).		
<u> </u>	1 Access the Wi-Fi menu.		Camera Basics
	 Access the Wi-Fi menu as described in step 2 in "Adding a Smartphone Using 		Auto Mode / Hybrid Auto Mode
	the Wi-Fi Menu" (🛄 136).		Other Shooting Modes
Print from Wi-Fi printer	2 Choose [凸].		
	● Touch [<u>[-]]</u> .		P Mode
			Tv, Av, M, and C Mode
	3 Choose [Add a Device].		Playback Mode
Select a Device	J Choose [Add a Device].		
Add a Device Edit a Device	 Touch [Add a Device]. 		Wi-Fi Functions
			Setting Menu
Waiting to connect	The camera's SSID is displayed.		Accessories
waiting to connect			
Connect target device to the displayed access point			Appendix
SSID: XXXXC_XXXXC_XXXXX		Index	¢
Cancel Switch Network			



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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.

Select a Device Refresh Printer1 Search complete



6 Choose an image to print.

Touch the name of the printer.

5 Choose the printer.

- Drag left or right across the screen to choose an image.
- Press the [) button, choose [], and then press the [] button.
- Touch [Print].
- For detailed printing instructions, see "Printing Images" (Q175).
- To end the connection, touch [Cancel] and then touch [OK] on the confirmation screen.

 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 choosing the device. To add a new device, drag left or right to access the device selection screen, and then configure the setting.
- If you prefer not to display recent target devices, choose MENU
 (□29) ▶ [¶4] tab ▶ [Wi-Fi Settings] ▶ [Target History] ▶ [Off].
- To use another access point, follow steps 3 4 in "Using Another Access Point" (2137).
- Once a connection destination is assigned in Touch Actions (
 (
 (
 119), you can automatically reconnect to a previous destination simply by dragging across the screen with the assigned gesture.





Sending Images to Another Camera

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

 Only Canon-brand cameras equipped with a Wi-Fi function can be connected to wirelessly. You cannot connect to a Canon-brand camera that does not have a Wi-Fi function, even if it supports Eye-Fi cards.

2 Choose [



 Access the Wi-Fi menu as described in step 2 in "Adding a Smartphone Using the Wi-Fi Menu" (2136).



Touch

Select a Device	
Add a Device	
Edit a Device	
	MENU ᠫ

3 Choose [Add a Device].

- Touch [Add a Device].
- 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.





- Drag images left or right to choose an image to send, and then touch [Send this image].
- Image transfer will begin. The screen darkens during image transfer.
- [Transfer completed] is displayed after the image is sent, and the image transfer screen is displayed again.
- To end the connection, touch [MIN] in the upper right of the screen, and then touch [OK] on the confirmation screen.
- 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 choosing the device. To add a new device, drag left or right to access the device selection screen, and then configure the setting.
- If you prefer not to display recent target devices, choose MENU
 (□29) ▶ [♥4] tab ▶ [Wi-Fi Settings] ▶ [Target History] ▶ [Off].
- You can also send multiple images at once and change the image size before sending (Q152).
- Once a connection destination is assigned in Touch Actions (
 (
 (
 119), you can automatically reconnect to a previous destination simply by dragging across the screen with the assigned gesture.

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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



Select and send

Select Range

Favorite Images

- Choose [Select and send].
- On the image transfer screen, touch [Select and send].

2 Choose a selection method.

 Touch a selection method, and then press the [[®]] button.

a then press

2 Choose an image.

- Touching an image to send will label it with a [√] icon.
- To cancel selection, touch it again. [√] is no longer displayed.
- Repeat this process to choose additional images.
- After you finish choosing images, press the [MENU] button.
- Touch [OK].
- **3** Send the images.
- Touch [Send].

• You can also choose images in step 2 by moving the zoom lever twice toward [Q] to access single-image display and then touching images.

Selecting a Range

1 Choose [Select Range].

• Following step 2 in "Sending Multiple Images" (1150), choose [Select Range] and press the [3] button.

Choose images.

- Follow steps 2 3 in "Selecting a Range" (
 114) to specify images.
- To include movies, touch [□] to add a
 [√] next to [Incl. Movies].
- Touch [OK].
- 3 Send the images.
- Touch [Send].

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Choosing Images Individually

MENU 🕤

Choose [Select].

 Following step 2 in "Sending Multiple Images" (µ150), choose [Select] and press the ([®]) button.





Sending Favorite Images

Send only images tagged as favorites (118).

1 Choose [Favorite Images].

- Following step 2 in "Sending Multiple Images" (Q150), choose [Favorite Images] and press the (B) button.
- An image selection screen for favorites is displayed. If you prefer not to include an image, touch the image to remove [√].
- After you finish choosing images, press the [MENU] button.
- Touch [OK].

2 Send the images.

Touch [Send].

 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.
- For movies that you do not compress (\$\log\$126), a separate, compressed file is sent instead of the original file. Note that this may delay transmission, and the file cannot be sent unless there is enough space for it on the memory card.
- 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.

 $[\Upsilon_{II}]$ high, $[\Upsilon_{II}]$ medium, $[\Upsilon]$ low, $[\Upsilon]$ 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.





Choosing the Number of Recording Pixels (Image Size)

On the image transfer screen, you can choose the recording pixel setting (size) of images to send by touching $[-Y_1]$.

- 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 (□29) ▶ [♀4] tab
 [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.



- Access the screen for adding comments.
- On the image transfer screen, touch [F].
- **2** Add a comment (\square 30).
- **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.

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 [1] as the destination. You can also assign [1] to the [1] button, so that you can simply press the [1] button to send any unsent images on the memory card to a computer via CANON iMAGE GATEWAY. 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" ([]] 144).
- To include a Web service as the destination, log in to CANON iMAGE GATEWAY (L144), 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.

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- **2** Choose the type of images to send (only when sending movies with images).
 - Press the [MENU] button and choose [Wi-Fi Settings] on the [4] tab (29).
 - Choose [Image Sync], press the [3] button, and then choose [Stills/Movies].



- 3 Assign []] to the [] button (only when sending images by pressing the II button).
- Clear the [] button setting if a smartphone is already assigned to the button (2134).
- Press the [] button to access the mobile connection screen, choose [1], and then press the [3] button.

Preparing the Computer

Install and configure the software on the destination computer.



(1138). Image Transfer Utility can also be downloaded from the Image Sync settings page of CANON iMAGE GATEWAY (152).

1 Install Image Transfer Utility.

Install Image Transfer Utility on a

computer connected to the Internet

2 Register the camera.

- Windows: In the taskbar, right-click [3]. and then click [Add new camera].
- Mac OS: In the menu bar, click [3], 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.

- Send images.
- If you have already assigned [1] to the
 button, press the [] button.
- If you have not assigned the button this way, choose [1] as described in steps 1 – 2 in "Uploading Images to Web Services" (1146).
- Sent images are labeled with a [1] 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 or an AC adapter kit (sold separately, ^[2]168).

- 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" (^[]153).
- 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 (¹µ144), 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.
- 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.

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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 (^[]155)
- Shoot remotely (^[]155)

• Privacy settings must be configured in advance to allow image viewing on the smartphone (
134,
136,
156).

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" (Q20). Also follow the steps in "World Clock" (Q162) 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.

Shooting Remotely

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

Choose a shooting mode.

 Turn the mode dial to choose [P], [Tv], [Av], [M], or [C] as the mode.

2 Secure the camera.

- Once remote shooting begins, the camera lens will come 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.
- Connect the camera and smartphone (134, 136).
- In the privacy settings, choose [Yes].

4 Choose remote shooting.

- In Camera Connect on the smartphone, choose remote 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 shooting, a live image from the camera will be displayed on the smartphone.
- At this time, a message is displayed on the camera, and all operations except pressing the power button are disabled.

5 Shoot.

Use the smartphone to shoot.

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[P] mode is used for shooting in modes other than [P], [Tv], [Av], [M], and [C]. However, some Quick Set and MENU settings you have configured in advance may be changed automatically.

- Movie shooting is not available.
- Any jerky 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 import images from the camera.

Editing or Erasing Wi-Fi Settings

Edit or erase Wi-Fi settings as follows.

Editing Connection Information



- **1** Access the Wi-Fi menu and choose a device to edit.
- Press the [] button.
- Press the [R] button.
- Touch [((•))], and then press the [P] button.
- Drag left or right to access the device selection screen, and then touch the icon of a device to edit

2 Choose [Edit a Device].

• Touch [Edit a Device], and then press the [] button.

3 Choose the device to edit.

Touch the device to edit, and then press the [P] button.

4 Choose the item to edit.

- Touch the item you want to edit.
- The items you can change depend on the device or service.



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MENU 🕤

MENU ᠫ

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Configurable Items	۵			£	Web Services	
[Change Device Nickname] (💭 157)	ο	0	ο	0	-	
[View Settings] (🛄 134)	-	0	-	-	-	
[Erase Connection Info] (Q157)	0	0	0	0	-	

O : Configurable -: Not configurable

Changing a Device Nickname

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



- Following step 4 in "Editing Connection Information" (Q156), choose [Change Device Nickname] and press the (B) button.
- Select the input field and press the (
 button. Use the keyboard displayed to enter a new nickname (
 30).

Erasing Connection Information

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



- Following step 4 in "Editing Connection Information" (Q156), choose [Erase Connection Info] and press the [இ] button.
- After [Erase?] is displayed, touch [OK].
- The connection information will be erased.

Changing the Camera Nickname

Standard

ouch Operation

Wi-Fi Settings Mobile Device Connect B Certification Logo Display

Copyright Info

Wi-Fi Settings Password

Target History

XXXXX

Resize for Sending

Change Device Nickname

Change Device Nickname

Enter a nickname for this camera

creen auto-lock settings

SETLIP4

MINI 🕁

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

Choose [Wi-Fi Settings].

 Press the [MENU] button and choose [Wi-Fi Settings] on the [¥4] tab (^[]29).



 Drag up or down to touch [Change Device Nickname], and then press the [[®]] button.

3 Change the nickname.

- Press the [[®]] button to access the keyboard (¹]30), and then enter a nickname.
- A message is displayed if the nickname you enter begins with a symbol or space. Press the (
) 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 (^(@)) button to access the keyboard, and then enter a new nickname.

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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.



Wi-Fi Settings Resize for Sending Change Device Nickname Check MAC Address Reset Settings MENU ᠫ

1 Choose [Wi-Fi Settings].

• Press the [MENU] button and choose [Wi-Fi Settings] on the [4] tab (29).

2 Choose [Reset Settings]. • Drag up or down and touch [Reset

3 Restore the default settings.

Touch [OK].

Settings].

The Wi-Fi settings are now reset.

• To reset other settings (aside from Wi-Fi) to defaults, choose [Reset All] on the [4] tab (\square 166).

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Setting Menu

Customize or adjust basic camera functions for greater convenience

Adjusting Basic Camera Functions

MENU (\square 29) settings on the [\checkmark 1], [\checkmark 2], [\checkmark 2], [\checkmark 4], and [\checkmark 5] tabs can be configured. Customize commonly used functions as desired, for greater convenience.

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.

Create Folder

File Numbering

Auto Reset

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.

• Choose [File Numbering] on the [[1] tab, and then choose an option.

• Choose [Create Folder] on the [1] tab,

Images will now be saved in folders

created on the shooting date.

and then choose [Daily].

 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.

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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, 160) memory card.

Formatting Memory Cards

Before using a new memory card or a card formatted in another device. vou 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.

Access the [Format] screen.

- Choose [Format] on the [¥1] tab, and then press the [] button.
- Format Format memory card? 32KB used 7.5GB INFO. Low Level Format Cancel OK

2 Choose [OK].

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

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

Low-Level Formatting

Perform low-level formatting in 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 lowlevel formatting, copy images on the memory card to a computer, or take other steps to back them up.



- On the screen in step 2 of "Formatting" Memory Cards" (1160), press the [INFO.] button to choose [Low Level Format]. A [/] icon is displayed.
- Follow step 2 in "Formatting Memory" Cards" (1160) to continue with the formatting process.

Choose [Video system] on the [§1] tab.

and then choose an option.

Low-level formatting takes longer than "Formatting Memory Cards" (Q160), 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.

Changing the Video System

Set the video system of any television used for display. This setting determines the image guality (frame rate) available for movies.

Video system PAL

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Electronic Level Calibration

Calibrate the electronic level if it seems ineffective in helping you level the camera.

For greater calibration accuracy, display grid lines (298) to help you level the camera in advance.



Place the camera on a flat surface, such as a table.



2 Calibrate the electronic level.

- and then press the [() button.
- Choose [Calibrate] and press the (A) button. A confirmation message is displayed.
- Touch [OK].

Resetting the Electronic Level

Restore the electronic level to its original state as follows. Note that this is not possible unless you have calibrated the electronic level.



- and then press the [(button.
- Choose [Reset], and then press the [[®]] button.
- Touch [OK].



Before Use Still Images Movies Basic Guide Information displayed on the screen and menus can be changed to a color suitable for shooting under low-light conditions. Enabling this setting is Advanced Guide useful in modes such as $[\[mathbb{M}]]$ ($[\[mathbb{M}]]$ 63). Choose [Night Display] on the [\$2] tab. Camera Basics and then choose [On] (29). • To restore the original display, choose Auto Mode / [Off]. Night Display Hvbrid Auto Mode **Other Shooting Modes** You can also return the setting to [Off] by holding down the P Mode [NFO] button for at least one second on the shooting screen or in Playback mode during single-image display. Tv. Av. M. and C Mode Playback Mode **Using Eco Mode** Wi-Fi Functions 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. Setting Menu Configure the setting. Accessories Eco Mode • Choose [Eco Mode] on the [§2] tab, and then choose [On]. Appendix • [ECO] is now shown on the shooting screen (1188).

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 ($\square 26$).



- Choose [Power Saving] on the [**'**2] tab, and then press the [] button.
- Choose an item, and then choose an option.

 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 (21161) to [On].

Screen Brightness

Adjust screen brightness as follows.



- Choose [Disp. Brightness] on the [¥2] tab, and then press the [♣] button.
- Touch [*][*] to adjust the brightness.

 For maximum brightness, press and hold the [INFO] 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 [¥2] tab.) To restore the original brightness, press and hold the [INFO] button again for at least one second or restart the camera.

World Clock

Select an option

Select an option

08.08.201510:00

SET Select Time Zone

08.08.201510:00

SET Select Time Zone

SET OK

Time Zone

🕂 Home

≯ World

Time Zone

MENU Cancel

Time Zone

A Home

≯ World

08.08.2015 10:00

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.

Specify your home time zone.

- Choose [Time Zone] on the [⁴/₂] tab, and then press the [[®]/₂] button.
- When configuring this setting for the first time, make sure [Home] is selected, and then press the [] button.
- Touch [◀][▶] to choose the home time zone.
- To set daylight saving time (1 hour ahead), touch [泠扉].
- Press the 🛞 button.

2 Specify your destination.

- Touch [X World], and then press the [[®]] button.
- Touch [◀][▶] to choose the destination time zone.
- If necessary, specify daylight saving time as in step 1.
- Press the [) button.

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3 Switch to the destination time zone.

- Make sure [X World] is selected, and then press the [MENU] button.
- [术] is now shown on [Time Zone] and shooting screens (□188).

Date and Time

Adjust the date and time as follows.



- Choose [Date/Time] on the [**Ý**2] tab, and then press the [இ] button.
- Touch the option to configure, and then touch [▲][▼] to specify the date and time.

Lens Retraction Timing

The lens is normally retracted for safety about one minute after you press the $[\blacktriangleright]$ button in Shooting mode ($\square 25$). To have the lens retracted immediately after you press the $[\blacktriangleright]$ button, set the retraction timing to [0 sec.].



• Choose [Lens Retraction] on the [**4**2] tab, and then choose [0 sec.].

Display Language

Change the display language as needed.



Choose [Language [3]] on the [4] tab, and then press the [3] button.
 Choose a language, and then press the [3] button.



Silencing Camera Operations

Silence camera sounds and movies as follows.



• Choose [Mute] on the [**Ý**3] tab, and then choose [On].

- Operation can also be silenced by holding down the [INFO.] button as you turn the camera on.
- Sound is not played during movies (^[1]103) if you mute camera sounds. To restore sound during movies, drag up across the screen. Adjust volume by dragging up or down, as needed.

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Adjusting the Volume

Adjust the volume of individual camera sounds as follows.



- Choose [Volume] on the [¥3] tab, and then press the [[®]] button.
- Drag up or down to choose an item, and then adjust the volume by touching the desired position on the bar.

Customizing Sounds

Customize camera operating sounds as follows.

Sound Options		
Start-up Sound	1	
Operation Sound		
Selftimer Sound		
Shutter Sound		
		MENU 🗲

- Choose [Sound Options] on the [¥3] tab, and then press the [[®]] button.
- Choose an item, and then press the [[] button.
- Choose an option.

• The shutter sound in digest movies recorded in [1] mode (1]35) cannot be changed.

Start-Up Screen

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

- Canon Start-up Image ICC 5 GF 1 2
- Choose [Start-up Image] on the [1] tab, and then press the [1] button.
- Choose an option.

Hiding Hints and Tips



Before Use

Automatically Locking the Touch-Screen Panel

To prevent unintended operations, you can set up automatic locking of the touch-screen panel.

- Copyright Info
- Choose [Screen auto-lock settings] on the [4] tab, and then press the [3] button.
- Choose [Screen auto lock], and then choose [Enable].
- Choose [Auto-locks after], and then choose an option.
- To unlock the touch-screen panel, press the shutter button halfway.

 The touch-screen panel can also be unlocked by pressing or turning controls, such as the [MENU] button or () ring.

Metric / Non-Metric Display

Change the unit of measurement shown in the zoom bar (\square 33), the MF indicator (\square 81), and elsewhere from m/cm to ft/in as needed.



 Choose [Units] on the [¥4] tab, 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.

button



Setting Copyright Information to Record in Images

To record the author's name and copyright details in images, set this information beforehand as follows.

- Copyright Info Display Copyright Info Enter Authors Name Enter Copyright Details Delete Copyright Info
- Choose [Copyright Info] on the [4] tab, and then press the [3] button.

Choose [Certification Logo Display] on

the [4] tab, and then press the [3]

- Choose [Enter Author's Name] or [Enter Copyright Details], press the [[®]] button to access the keyboard, and then enter the name (¹]30).
- Press the [MENU] button. When [Accept changes?] is displayed, touch [Yes].
- The information set here will now be recorded in images.
- To check the information entered, choose [Display Copyright Info] on the screen above, and then press the $[\textcircled{\textcircled{}}]$ button.

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Deleting All Copyright Information

You can delete both the author's name and copyright details at the same time as follows.



- Touch [OK].

• The copyright info already recorded in images will not be deleted.

Adjusting Other Settings

The following settings can also be adjusted.

- [4] tab setting [Wi-Fi Settings] (1131)
- [4] tab setting [Mobile Device Connect Button] ([134)

Restoring Default Camera Settings





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Accessories

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



*1 Also available for purchase separately.

*2 A genuine Canon accessory is also available (Interface Cable IFC-600PCU).

*3 Use a commercially available cable no longer than 2.5 m (8.2 ft.).

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



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AC Adapter Kit ACK-DC110

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



Compact Power Adapter CA-DC30/CA-DC30E

- Insert the included battery pack into the camera for charging. Interface Cable IFC-600PCU (sold separately) is required to connect the adapter to the camera.
- The battery charger, AC adapter kit, and compact power adapter 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.

Flash Unit



High-Power Flash HF-DC2

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

 High-Power Flash units cannot be used in [M], [Av], or [Tv] shooting mode when [Flash Mode] is set to [Manual].

Other Accessories



Interface Cable IFC-600PCU

• For connecting the camera to a computer or printer.

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

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Playback on a TV



For details on connection or how to switch inputs, refer to the TV manual.

- The following camera functions are available when using a TV for display.
 - Browsing images
 Drag left or right across the screen (^[1]103).
 - Playing movies (1104)
 - Zoom in (📖 112)

To zoom in, move the zoom lever toward $[\![]]$ or spread your fingers apart (pinch out).

- Group playback (🛄 110)
- Touch Actions (^[1]119) Erasing is not available.

Note that when the camera is connected to a TV, nothing is displayed on the camera screen. Watch the TV screen as you control the camera.





2 Connect the camera to the TV.

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



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

3 Turn the TV on and switch to

Images from the camera are now

displayed on the TV. (Nothing is

displayed on the camera screen.)

TV before disconnecting the cable.

When finished, turn off the camera and

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

external input.

Δ

Turn the camera on.

Press the [] button.

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Some information may not be displayed when viewing images on a TV (1189). Camera operating sounds are not played while the camera is connected to an HDTV.

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Powering the Camera with Household Power

Still Images Movies

Powering the camera with AC Adapter Kit ACK-DC110 (sold separately) eliminates the need to monitor the remaining battery level.



Make sure the camera is off.



2 Open the cover.

Follow step 1 in "Inserting the Battery Pack and Your Memory Card" (119) to open the memory card/battery cover, and then open the coupler cable port cover as shown.



3 Insert the coupler.

 Holding the coupler with the terminals (1) facing as shown, insert the coupler just as you would a battery pack (following step 2 in "Inserting the Battery Pack and Your Memory Card" (219)).



Make sure the coupler cable passes through the port (1).





5 Connect the power cord.

4 Close the cover.

closed position (2).

• Insert one end of the power cord into the compact power adapter, and then plug the other end into a power outlet.

Lower the cover (1) and hold it down as you slide the switch, until it clicks into the

- Turn the camera on and use it as desired.
- When finished, turn the camera off and unplug the power cord from the outlet.
- Do not disconnect the adapter or unplug the power cord while the camera is still on. This may erase your shots or damage the camera.
- Do not attach the adapter or adapter cord to other objects. Doing so could result in malfunction or damage to the product.



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Inserting and Charging the Battery Pack

Charge the battery pack by using the supplied battery pack with an optional Compact Power Adapter CA-DC30/CA-DC30E or Interface Cable IFC-600PCU.



- Follow step 1 in "Inserting the Battery Pack and Your Memory Card" (
 19) to open the cover.
- Insert the battery pack as described in step 2 of "Inserting the Battery Pack and Your Memory Card" (Q19).
- Follow step 4 in "Inserting the Battery Pack and Your Memory Card" ([1]19) to close the cover.



 With the camera turned off, open the cover (1). Hold the smaller plug of the interface cable (sold separately) facing as shown and insert the plug fully into the camera terminal (2).



• Insert the larger plug of the interface cable into the compact power adapter.



CA-DC30E





from the camera.

lamp lights up.

finishes.

3 Charge the battery pack.

outlet (2).

 CA-DC30: Flip out the plug (1) and plug the compact power adapter into a power

• CA-DC30E: Plug the power cord into the

compact power adapter, then plug the

Charging begins and the USB charge

Remove the compact power adapter from

the power outlet and the interface cable

The lamp turns off when charging

other end into a power outlet.

- When charging a different battery pack, be sure first to disconnect the interface cable from the camera and then insert another battery pack for charging.
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- For details on charging time and the number of shots and recording time possible with a fully charged battery pack, see "Number of Shots/Recording Time, Playback Time" (^[2]₂₀₅).
- You can view images even while the battery is charging, by turning the camera on and entering Playback mode (Q23).
 However, you cannot shoot while the battery is charging.
- 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.

Using a Computer to Charge the Battery

You can also charge the battery pack by inserting the larger plug of the interface cable into a computer's USB terminal in step 2 of "Inserting and Charging the Battery Pack" (Q172). For details about USB connections on the computer, refer to the computer user manual.

- - Charging is not possible when the camera is off.
 - With some computers, battery charging may require the memory card to be in the camera. Insert the memory card in the camera (¹) before connecting the cable to the computer's USB port.

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 to your computer
- Image Transfer Utility
 - Set up Image Sync (Q152) and receive images
- Map Utility
 - Use a map to view GPS information that has been added to images
- Digital Photo Professional
 - Browse, process and edit RAW images

 To view and edit movies on a computer, use preinstalled or commonly available software compatible with movies recorded by the camera.





Computer Connections via a Cable

Checking Your Computer Environment

The software can be used on the following computers. For detailed system requirements and compatibility information, including support in new operating systems, visit the Canon website.

- Windows 8/8.1
- Windows 7 SP1 •
- Mac OS X 10 10
- Mac OS X 10.9

When sending images to a computer via Wi-Fi, check the system requirements in "Checking Your Computer Environment" (138).

Installing the Software

For software installation instructions, see "Installing the Software" (138).

Saving Images to a Computer

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



Connect the camera to the computer.

• With the camera turned off, open the cover. With the smaller plug of the cable in the orientation shown, insert the plug fully into the camera terminal.









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- Turn the camera on to access CameraWindow.
- Press the [] button.

Double-click [

- Mac OS: CameraWindow is displayed when a connection is established between the camera and computer.
- Windows: Follow the steps introduced below
- In the screen that is displayed, click the change program link of [11].
- Choose [Downloads Images From Canon] Cameral and then click [OK].





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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 [b] 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 is 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.
- RAW images (or JPEG images recorded with RAW images) may not be saved.
- 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

Basic Guide

Print your shots and configure a variety of settings used for your printer or photo printing services by connecting the camera to a PictBridge-compatible printer with a cable.

A Canon SELPHY CP printer is used in this example of PictBridge printing. Also refer to your printer user manual.

Easy Print

00

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Still Images Movies

Print your shots by connecting the camera to a PictBridge-compatible printer with a USB cable (sold separately; camera end: Micro-B).

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.

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4 Choose an image.

 Drag left or right across the screen to choose an image.





5 Access the printing screen.

• Press the [P] button, choose [D], and press the [] button again.

ⓒ] Default 🖂 Default D 1 copies Cropping Default Paper Settings , Default Print 🗊 Default MENU ᠫ

6 Print the image.

- Choose [Print] and press the [] button.
- Printing now begins.
- To print other images, repeat the above procedures starting from step 4 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" (QQ 169).

RAW images cannot be printed.

[Default 🖂 Default D 1 copies Cropping Default Paper Settings _____ Default Print 🗊 Default MENU 🕤

Configuring Print Settings



1 Access the printing screen.

 Follow steps 1 – 5 in "Easy Print" $(\square 175)$ to access this screen.

2 Configure the settings.

• Touch an item, and on the next screen, choose an option. Press the [P] button to return to the printing screen.

	Default	Matches current printer settings.	
QJ	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 (QQ177).	
Paper Settings	-	Specify the paper size, layout, and other details $(\square 177)$.	

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Cropping Images before Printing

Choosing Paper Size and Lavout before Printing

Still Images Movies

Choose [Paper Settings].

After following step 1 in "Configuring Print" Settings" (2176) to access the printing screen, touch [Paper Settings].



SET Next

SET Next

♀] Default Default

D) 1 copies

DDefault

Default

Default

MENU Cancel

Cropping

Paper Settings

MENU 🕤

Print

- **2** Choose a paper size.
- Choose an option, and then press the [] button.



Choose an option, and then press the [all button.

4 Choose a layout.

- Drag up or down to choose an option.
- When choosing [N-up], specify the number of images per sheet.
- Press the [3] button.
- **5** Print the image.
- Follow step 6 in "Easy Print" (1175) to print.

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



Choose [Cropping].

- After following step 1 in "Configuring Print" Settings" (2176) to access the printing screen, touch [Cropping].
- 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, drag it.
- To rotate the frame, press the [NFO] button.
- When finished, press the [3] button.
- **3** Print the image.
- Follow step 6 in "Easy Print" (1175) to print.

Cropping may not be possible at small image sizes, or at some aspect ratios.



MENU Previous



Available Lavout 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 3:2.
Fixed Size	Choose the print size. Choose from 3.5 x 5 in., postcard, or wide-format prints.

Printing ID Photos

Still Images Movies

Choose [ID Photo].

Following steps 1 – 4 in "Choosing" Paper Size and Layout before Printing" (177), choose [ID Photo] and press the [3] button.

ID Photo 25mm Short Side 20mm Cropping MENU 🕤



2 Choose the long and short side length.

Choose an item and press the [@] button. On the next screen, choose the length, and then press the [P] button.

Printing" (2177) to choose the printing



area

Follow step 6 in "Easy Print" (175) to print.

4 Print the image.

Printing Movie Scenes





1 Access the printing screen. Follow steps 1 – 5 in "Easy Print"

Still Images Movies

(175) to choose a movie. The screen at left is displayed.

Choose a printing method. 2

• Choose [19] and press the [3] button. On the next screen, choose an option, and then press the [] button to return to the printing screen.

3 Print the image.

 Follow step 6 in "Easy Print" (
 175) to print.

Movie Printing Options

- Single Prints the current scene as a still image. Prints a series of scenes, a certain interval apart, on a single sheet of paper. You can also print the folder number, file Sequence number, and elapsed time for the frame by setting [Caption] to [On].
 - To cancel printing in progress, press the [() button, and then touch [OK].
 - After displaying a scene to print as described in steps 2 5 of "Viewing" (Q103), you can also access the screen in step 1 here by touching $[D_i]$ in the movie control panel.

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Adding Images to the Print List (DPOF)

Still Images Movies

Batch printing (180) 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.

RAW images cannot be included in print list.

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	Off
File No.	Off
Clear DPOF data	On
□0	MENU ᠫ

• Press the [MENU] button, choose [Print settings] on the [] 4] tab, and then press the [) button.

• Choose [Print Settings], and then press the [P] button. On the next screen, choose and configure items as needed.

		Standard	One image is printed per sheet.		
	Print Type	Index	Smaller versions of multiple images are printed per sheet.		
		Both	Both standard and index formats are printed.		
	Data	On	Images are printed with the shooting date.		
	Date	Off	-		
		On	Images are printed with the file number.		
	File No.	Off	-		
(Clear DPOF data	On	All image print list settings are cleared after printing.		
		Off	-		

			ot all of your DPOF settings may be applied in printing by the	Before Use
		•	printer or photo development service, in some cases. (1) may be displayed on the camera to warn you that the memory card has print settings that were configured on another	Basic Guide
			camera. Changing the print settings using this camera may overwrite all previous settings.	Advanced Guide
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	[Date] and [File	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-	Auto Mode / Hybrid Auto Mode	
		•	compatible printers (sold separately). The date is printed in a format matching setting details in [Date/	Other Shooting Modes
			Time] on the [\P 2] tab (\square 20).	P Mode
Settin	g Up	P	rinting for Individual Images	Tv, Av, M, and C Mode
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Print se Print	ettings		1 Choose [Select Images & Qty.].	Wi-Fi Functions
Press the [MENU] button, choose [Print settings] on the [▶] 4] tab, and then press the [ℕ] button. Select All images Clear All selections			Press the IVIENUI button, choose [Print settings] on the [1]4] tab, and then press	Setting Menu
Print Se (DPOF)	ttings		Choose [Select Images & Qty.], and then press the [[®] / ₄] button.	Accessories
			2 Choose an image.	Appendix
			 Drag left or right across the screen to choose an image. 	Index
			 Images you specify for index printing are labeled with a [0] icon. 	





3 Specify the number of prints.

- Touch [A][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.
- When finished, press the [MFNI] button to return to the menu screen.

Setting Up Printing for a Range of Images



- Still Images Movies
- Following step 1 in "Setting Up Printing" for Individual Images" (1179), choose [Select Range] and press the [2] button.
- Follow steps 2 3 in "Selecting a Range" (114) to specify images.
- Touch [Order].

Setting Up Printing for All Images



- Still Images Movies
- Following step 1 in "Setting Up Printing" for Individual Images" (2179), choose [Select All Images] and press the [button
- Touch [OK].







- When images have been added to the print list (Å179 – Å180), this screen is displayed after you connect the camera to a PictBridge-compatible printer. Choose [Print now], and then simply press the [()) 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 (173), 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



Press the [MENU] button, choose [Photobook Set-up] on the [1]4] tab, and then choose how you will select images.

[1] 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.

Adding Images Individually

Still Images Movies



Choose [Select].

 Following the procedure in "Choosing a Selection Method" (181), choose [Select] and press the [@] button.



Select All Images

Set 1 copy per image

Deselect all images

OK

OK

Cancel

Clear All Selections

Cancel

2 Choose an image.

- Choose an image after dragging left or right to browse. Press the [1] button.
- [/] is displayed.
- To remove the image from the photobook. press the $[\mathbb{R}]$ button again. $[\checkmark]$ 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



Following the procedure in "Choosing" button.

- a Selection Method" (2181), choose [Select All Images] and press the [@]
- Touch [OK].

Removing All Images from a Photobook

- Still Images Movies
- Following the procedure in "Choosing" a Selection Method" (Q181), choose [Clear All Selections] and press the [3] button
- Touch [OK].

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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 (418).
- Confirm that the battery pack is inserted facing the correct way (119).
- Confirm that the memory card/battery cover is fully closed (^[]19).
- 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 (\square 19).

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 (Q170).

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Shooting

Cannot shoot.

• In Playback mode (Q103), press the shutter button halfway (Q26).

Strange display on the screen under low light ($\square 27$).

Strange display on the screen when shooting.

- Note that the following display problems are not recorded in still images but are recorded in movies.
 - The screen may flicker and horizontal banding may appear under fluorescent or LED lighting.

Full-screen display is not available while shooting (Q90).

[**\$**] flashes on the screen when the shutter button is pressed, and shooting is not possible (💭 36).

[C] is displayed when the shutter button is pressed halfway (C36).

- Set [IS Mode] to [Continuous] (452).
- Raise the flash and set the flash mode to [2] (Q87).
- Increase the ISO speed (^[]₄75).
- 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 (I_52).

Shots are out of focus.

- Press the shutter button halfway to focus on subjects before pressing it all the way down to shoot (^[]₂₆).
- Make sure subjects are within focusing range (Q205).
- Set [AF-assist Beam] to [On] (^[]53).
- · Confirm that unneeded functions such as macro are deactivated.
- Try shooting with focus lock or AF lock (483, 487).

Shots are blurry.

 Blurring may occur more often when Touch Shutter is used to shoot, depending on shooting conditions. Hold the camera still when shooting.

Continuous shooting suddenly stops.

 Continuous shooting stops automatically after about 2,000 shots are taken at one time. Release the shutter button a moment before you resume shooting. 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 [\$] ([]87).
- Adjust brightness by using exposure compensation (Q74).
- Use AE lock or spot metering (\$\$74, \$\$74).

Subjects look too bright, highlights are washed-out.

- Lower the flash and set the flash mode to [3] ([3]33).
- Use AE lock or spot metering (I_i / Reduce the lighting on subjects.

Shots look too dark despite the flash firing (236).

- Shoot within flash range (Q204).
- Increase the ISO speed (^[]75).

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

- Shoot within flash range (Q204).
- Lower the flash and set the flash mode to [(3)] ([-33).

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 (Q75).
- High ISO speeds in some shooting modes may cause grainy images (Q57).

Subjects are affected by red-eye.

- Set [Red-Eye Lamp] to [On] (⁽¹⁾53). The red-eye reduction lamp (⁽¹⁾4) will light up for flash shots. 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 (124).

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 (Q160).

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Defere Llee

Shooting settings or Quick Set menu settings are not available.

 Available setting items vary by shooting mode. Refer to "Functions Available in Each Shooting Mode", "Quick Set Menu", and "Shooting Tab" (¹190 – ¹195).

The Babies or Children icon is not displayed.

 The Babies and Children icons will not be displayed if the birthday is not set in face information (Q43). If the icons still are not displayed even when you set the birthday, re-register face information (Q44), or make sure that the date/ time is set correctly (Q163).

Touch AF or Touch Shutter does not work.

- Touch AF or Touch Shutter will not work if you touch the edges of the screen. Touch closer to the center of the screen.
- If [Screen auto-lock settings] is set to [Enable], unlock the touch-screen panel (^[]165).

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 (Q160, Q206).

[1] 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 ([]160).
 - Lower the image quality (49).
 - Switch to a memory card that supports high-speed recording (Q206).

Zooming is not possible.

- Zooming is not possible in [1] mode (163).
- Zooming is not possible when shooting movies in [4] ([160), [1]), and [[1]] modes.

Subjects look distorted.

 Subjects that pass in front of the camera quickly may look distorted. This is not a malfunction.

Linear noise is recorded.

• Linear noise may be recorded if lights or other sources of bright light are visible on the shooting screen in an otherwise dark scene. Recompose the shot so that the bright light is not visible on the shooting screen or nearby.

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 (Q160).
- 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 (C23) if you have activated [Mute] (C163) or the sound in the movie is faint.
- No sound is played for []] mode movies ([]]60), []] mode movies ([]]66), or Creative Shot movies, because audio is not recorded in these modes.

Cannot access the Story Highlights home screen by touching [[1]].

- Home screen display is not possible when connected to a printer. Disconnect the camera from the printer.
- Home screen display is not possible during Wi-Fi connections. End the Wi-Fi connection.

A desired subject icon for an album is not displayed on the Story Highlights home screen.

 In simple information display mode (µ105), choose an image that shows the name of the person for the album before accessing the Story Highlights home screen (µ127).

Memory Card

The memory card is not recognized.

• Restart the camera, with the memory card in it (Q25).

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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.
 - While holding the shutter button and zoom lever toward [1], press the [1] button. In Playback mode, move the zoom lever toward [11], and on the next screen, choose [B] and press the [3] button.

Wi-Fi

Cannot access the Wi-Fi menu.

- The Wi-Fi menu is not available in Shooting mode. Switch to Playback mode and try again.
- In Playback mode, the Wi-Fi menu cannot be accessed during magnified display or index display. Switch to single-image display and try again. Similarly, the Wi-Fi menu cannot be accessed during group playback or filtered image display according to specified conditions. Cancel group or filtered image playback.
- The Wi-Fi menu cannot be accessed while the camera is connected to a printer, computer, or TV 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 (¹/₄156).
- Use a computer or smartphone to register Web services (144).
- To add a smartphone, first install the dedicated application Camera Connect on your smartphone (Q134).
- 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 (Q204). 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.
- RAW images cannot be sent. For images captured in both JPEG and RAW format, only the JPEG version is sent. However, RAW images can be sent using Image Sync.
- 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 (µ152). 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 (Q152).
- 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 (^[]158).

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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 (Q19).

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 (19).

Cannot record!

 Shooting was attempted without a memory card in the camera. To shoot, insert a memory card facing the correct way (2)19).

Memory card error (1160)

 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 (⁽⁾19), contact a Canon Customer Support Help Desk.

Insufficient space on card

There is not enough free space on the memory card to shoot (\$\overline\$33, \$\overline\$55, \$\overline\$73, \$\overline\$92) or edit images (\$\overline\$121). Either erase unneeded images (\$\overline\$115) or insert a memory card with enough free space (\$\overline\$19).

Touch AF unavailable

• Touch AF is not available in the current shooting mode (190).

Touch AF canceled

• The subject selected for Touch AF can no longer be detected (Q86).

Charge the battery (118)

No Image.

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

Protected! (113)

Unidentified Image/Incompatible JPEG/Image too large./Cannot play back MOV/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 rotate/Cannot modify image/Cannot modify/ Cannot assign to category/Unselectable image./No identification information

 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.
 Edit ID Info* (111), Magnify* (112), Rotate* (117), Favorites (118), Edit* (121). Print List* (179). and Photobook Set-uo* (181).

Invalid selection range

When specifying a range for image selection (
 ¹¹¹⁴,
 ¹¹¹⁷,
 ¹¹⁸⁰), 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 (
 179) or Photobook Set-up (
 181). Choose 998 images or less.
- Print List (µ179) or Photobook Set-up (µ181) 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 (µ113), Erase (µ115), Favorites (µ118), Print List (µ179), or Photobook Set-up (µ181).

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 [1] tab, change [File Numbering] to [Auto Reset] (□159), or format the memory card (□160).

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.

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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 (L175) 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 (
 ¹
 ¹

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 (Q140).
- 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 (140).

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 (Q152) 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)



- Shooting mode (2190), Scene (1) icon (237)
- Flash mode (287) (2)
- Shadow correction (277) (3)
- Metering method ($\square 74$) (4)
- ND filter (277) (5)
- Drive mode (42), AEB (6) shooting (Q76), Focus bracketing (Q82)
- White balance (278), Mercury (7)lamp correction (48)
- My Colors (279) (8)
- (9) Touch Shutter (42)

- (10) IS mode icon (238)
- Battery level (2188) (11)
- (12) Still image compression (290). Recording pixel setting (190)
- (13) Recordable shots (205)*
- (14) Zoom magnification (239). Digital tele-converter (283)
- (15) Movie quality (49)
- Remaining time (206) (16)
- (17) Histogram (QQ 105)
- Quick Set menu (228) (18)
- (19) Focus range (280, 281), AF lock (87)

- (20) AE lock (Q74), FE lock (📖 89)
- (21) AF frame (283), Spot AE point frame (274)
- (22) Control ring function switching (296)
- (23) Manual focus switching (281)
- (24) Grid lines (298)
- (25) Shutter speed (292, 293)
- (26) Aperture value (293, 293)
- (27) Electronic level (450)
- (28) Exposure level (293)
- (29) ISO speed (475)
- (30) DR correction (277)
- (31) Hybrid Auto mode (235)
- (32) Star Emphasis (264)
- (33) High ISO NR (276)
- * In [[]] mode, indicates the number of shots available

Battery Level

An on-screen icon or message indicates the battery charge level.

Display	Details	
• 17/4	Sufficient charge	
- 74	Slightly depleted, but sufficient	
(Blinking red)	Nearly depleted—charge the battery pack soon	
[Charge the battery]	Depleted—charge the battery pack immediately	



- (35) Self-timer (240)
- (36) Camera shake warning (Q36)
- (37) Zoom bar (233)
- Blink detection (2351) (38)
- Manual focus (281) (39)
- Flash exposure compensation (40)/ Flash output level (88. **95**
- (41) Exposure compensation (\square 74)
- (42) Wind filter (236, 270)
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Playback (Detailed Information Display)



(29) Shadow correction (277)

(30)	Image quality / Frame rate (movies) (Q49)	(33)	 Still images: Recording pixel setting (Q205) Movies: Playback time (Q206) 	Befor	re Use	
. ,	Group playback (🛄110)	(24)		Basio	c Guide	
. ,	Compression (image quality) (\$\Delta\$90) / Recording pixel setting (\$\Delta\$49), Digest movies (\$\Delta\$5), RAW (\$\Delta\$90), MP4		(34) File size	Adva	nced Guide	
	(movies), Albums ([]] 127)				Camera Basics	
	 Some information may no a TV (QQ 170). 	ot be di	splayed when viewing images on		Auto Mode / Hybrid Auto Mode	
Sum	mary of Movie Control Pa		Other Shooting Modes			
The following operations are available on the movie control panel, accessed as described in "Viewing" (2103).				P Mode		
(ا	Touch to display the volume panel, and then touch $[\blacktriangle][\bigtriangledown]$ to adjust the volume. At a volume of 0, $[\P]$ is displayed.				Tv, Av, M, and C Mode	
	Play				Playback Mode	
	Slow Motion (Touch [◀][▶] to a is played.)	idjust	the playback speed. No sound		Wi-Fi Functions	
K	Skip Backward* or Previous Clip (2126) (To continue skipping backward, keep holding down the (3) button.)				Setting Menu	
	Previous Frame (For fast-rewind, keep holding down the [Accessories		
	Next Frame (For fast-forward,	keep	holding down the 🛞 button.)			
	Skip Forward* or Next Clip (
*	Erase Clip (Displayed when ar movies (Q106), Creative Sho without background music (Q	ťmov		Index	(
*	Edit (🛄 125)					
Ð	Shown when the camera is co	nnecte	ed to a PictBridge-compatible			

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

printer (🛄 175).

Functions and Menu Tables

Functions Available in Each Shooting Mode

lcons in black, such as ${\pmb C}$, indicate that the function is available or automatically set in that shooting mode.

Gray icons, such as ${\ensuremath{\mathbb C}}$, indicate that the function is unavailable in that shooting mode.

Exposure Compensation (Q274)

C*1/M/Av/Tv/P/☎1/AUT0/⊘1/�/☎/☎/☎/☎/☎ ※/I®/◎/ቇ/፩/≉/≥/⊆/@/∥/♥/☞/**/

ISO Speed (Q75)

Auto

C⁺¹ / M / Av / Tv / P / 溜 / AUTO / 公) / 狗 / 图 / 图 / 图 / 图 / 》 ※ / IRR / 窗 / 過 / 函 / 過 / ⑦ / 秦 / 皇 / ब / @ / ア / 門 / 層 / 艸 / 〓 125 – 12800

C*1 / M / Av / Tv / P / ☞ / AUTO / ◇)/ ♥ / ◙ / ፼ / ፼ / ፼ / ፼ / ፠ / IR / ♥ / ῷ / ৶ / ፬ / ▲ / ፬ / ▲ / ፬ / ▲ / ፬ / ④ / ♥ / ♥ / ♥ / ♥

AF Operation (

ONE SHOT

SERVO

Bracketing (Щ76, Щ82)	Before Use
	Basic Guide
	Advanced Guide
C**/M/Av/Tv/P/ॆ涨/AUTO/⊘\/�/Დ/⊠/⊠/@/ℤ/ ፠/\\\{\$/\$/〕/♪/©/♪/!!//2/2/?!!!	Camera Basics
暨 C ¹¹ / M / Av / Tv / P / 器 / AUTO / ◇□ / ③ / 图 / 图 / 图 / 图 / 图 / Ⅰ	Auto Mode / Hybrid Auto Mode
※ / INR / ※ / ③ / ▲ / ○ / ▲ / 2 / ▲ / ▲ / ■ / ▲ / ■ / ▲ / ■ / ▲ / ■ / ▲ / ■ / ▲ / ■ / ■	Other Shooting Mode
	P Mode
ᢗᡃᠠᢂ᠈Av᠈Tv᠈₽᠈ᢝ᠈AUTO᠈ᠿᢧᢀ᠈᠖᠈ᢁ᠈ᢁ᠈᠅᠈᠁ ፠᠈ᡰ᠓᠈ᢀ᠈᠕᠈᠘᠈ᡬ᠖᠈ᡬ᠘᠈ᡬ᠘᠈ᡬ᠘᠈᠘᠈ᢙ᠈ᢪ᠈ᡍ᠈ᢛ᠈᠅᠉	Tv, Av, M, and C Mode
	Playback Mode
C/M/Av/Tv/P/澀!/AUT0/⊘₁/Ϡ/◙/⊠/⊠/▨/▨/』 ፠/\™/\$/♫/』/@/©/♪/』/@/@/?!\\.'\?!	
믹	Wi-Fi Functions
C*1 / M / Av / Tv / P / ﷺ / AUTO / ⊘ŋ / भ / ፼ / ፼ / ፼ / ፼ / ፼ / ﷺ / № / १ / ﷺ / @ / ▲ / @ / ▲ / ⊇ / ☑ / 座 / 第 / "☴ / ☶ / 艸 / హ	Setting Menu
Flash (҈ 87) \$^	Accessories
· C*1/M/Av/Tv/P/鄙/AUTO/②1/約/図/図/図/図/源/ ※/III/@/』。/②1/参/②1/@/②1/◎//◎/[図//※/』。	Appendix
	Index
C*1 / M / Av / Tv / P / ﷺ / AUTO / ⊘ŋ / � / 函 / ᇒ / 函 / 緛 / 웹 / ※ / № / ֎ / 勐 / 逾 / ▲ / ஂ / ▲ / ② / ▲ / ② / ▲ / ♀ / ♀ / ♀ / ♀ / ♀ / □	

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C*1 / M / Av / Tv / P / ﷺ*3 / AUT0*3 / ₯ / ₪ / ₪ / ₪ / ₪ / @ / @*3 / ﷺ / ₩ / ⑨ / ῷ / ῷ / ῷ / ፬ / 秦 / 및 / ☑ / @ / ∰ / ♥ / ℝ / ಔ / ♥ /

٤

Flash Exposure Compensation (Q88)

C'' / M / Av / Tv / P / ☞ / AUTO / ◇) / � / ፼ / ፼ / ፼ / ፼ / ፼ / ፼ / ፠ / IRR / ֎ / @ / @ / @ / @ / 全 / ≇ / ④ / @ / ?? / 평 / ?? / ??

Flash Output Level (📖95)

C*1/M/Av/Tv/P/♂1/AUT0/◇3/3/3/⊠/⊠/@/@//?/ ∭/IR/9/3/2/0/≰/2/2/2/?/?!/?

Av/Tv Settings (192, 193)

Aperture Value

Shutter Speed

C*1/M/Av/Tv/P/♂/AUT0/◇J/�/図/⊠/@/@/@/?? ※/IR/?/@/@/@/0/≴/2/@/@/?!?!!

Bulb Setting

C''/M/Av/Tv/P/♂/AUT0/∞)/♥/⊠/⊠/⊠/@/@/ ※/IR/®/@/@/@/©/≰/≗/⊆/@/?!?!/?!??

Program Shift (Q74)

AE Lock/FE Lock in Standby (
74,
89)*4

AE Lock (during recording)/Exposure Compensation (🛄 69)	Before Use
C*1/M/Av/Tv/P/郄/AUT0/∞)/�/☎/⊠/絕//////// ※/I®/%/☆/♪/♪/♪/	Basic Guide
AF Lock (when assigned to the movie button (🛄87))	
C*1 / M / Av / Tv / P / ☞ / AUTO / ∞) / � / Ფ / ፼ / ፼ / ፼ / ፼ / ፠ / ዘ೫ / ֎ / ῷ / ـــــــــــــــــــــــــــــ	Advanced Guide
Focus Range (Q180, Q181)	Camera Basics
A	Auto Mode /
C*1/M/Av/Tv/P/a#/AUT0/0/1/%/@/@/@//@////////////////////////	Hybrid Auto Mode
▒/ᡰ᠓/힇/ۥۥۥ////	Other Shooting Modes
C*1 / M / Av / Tv / P / № / AUTO / <>	P Mode
ﷺ / 眠 / ⑨ / 勐 / 過 / 靣 / ▲ / 鱼 / 짙 / 座 / 湮 / 泙 / 壖 / 咣 / 긓 Manual Focus Switching When Recording Movies (匚69)	Tv, Av, M, and C Mode
C*1/M/Av/Tv/P/ጬ/AUT0/⊘\/�/@/@/@/@/@/@/@/	
ﷺ / ₩₩ / ♥ / ᢏ) / 差 / ◙ / ♠ / ڲ / 🖬 / 渔 / 第 / ₩ / 🐨 / ₩ / 🐨	Playback Mode
Move AF Frame (🛄 84)	Wi-Fi Functions
Center	WI-FI FUNCTIONS
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Periphery	Accessories
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₩** / @ / ﷺ / ₩ / ♥ / ۞ / ৶ / ☎ / 差 / உ / ◢ / @ / ₩ / ♥ / 捃 / *₩ / ₩	Appendix
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C*1 / M / Av / Tv / P / 郄 / AUTO / ∞) / ŷ / 図 / №*5 / @*5 / ☞*5 / @ / ※ / ₩R / @ / ◎) / 』 / ⓒ / ♣ / உ / @ / @ / ₩ / ♥, / ╦ /	

4 | b | ti

Face Select (🛄 86)

Touch Shutter (QQ 42)

Change Display (📖 27)

- *1 Options vary depending on the assigned shooting mode.
- *2 [SERVO] when subject movement is detected.
- *3 Not available, but switches to [2] in some cases.
- *4 FE lock not available in [3] flash mode.
- *5 Only when [MF] is selected.
- *6 Only available when faces are detected.
- *7 Only available for shooting. Subject designation not available.

Quick Set Menu	Before Use
AF method (💭 83)	Basic Guide
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	Camera Basics
C*1 / M / Av / Tv / P / ﷺ / AUTO / ◇>」 ຈີ / ⊠ / ⊠ / ⊠ / ∅ / ∅ / ∅ / ∅ / ∅ / ∅ / ₪ / ﷺ / ₩ / ♥ / ῷ / ৶ / ፬ / 奎 / Ձ / ☑ / @ / ♥ / ☴ / ॡ / 號 / ♥ / ☴	Auto Mode / Hybrid Auto Mode
Image quality For details, see "Shooting Tab" (2195).	Other Shooting Modes
Movie Quality (Q49, Q49) When Set to NTSC	P Mode
	Tv, Av, M, and C Mode
C*1/M/Av/Tv/P/郄/AUTO/∞)/�/函/⊠/⊠/@/ ፠/IR/%/ŵ/&/©/≉/≗/@/@/%/™//₩/™	Playback Mode
	Wi-Fi Functions
C*1 / M / Av / Tv / P / ﷺ / AUTO / ∞) / 秒 / 窗 / ፼ / ፼ / ፼ / ﷺ / ЮR / 窗 / 過 / @ / @ / 全 / ⊆ / @ / @ / 第 / ≒ / 镭 / भ़ / 믋 1000 / ♠ / ⊆ / @ / @ / @ / @ / € / □ / @ / ♥ / ≒	Setting Menu
C*1/M/Av/Tv/P/ஊ/AUTO/∞1/%/፼/፼/፼//@// ፠/\\\\/@/@/@/@/@/@/@/@/@/@/@/@/?*/!	Accessories
EHD 29.97P	Appendix
C*1/M/Av/Tv/P/☎1/AUT0/◇>1%)/☎/∞3/∞7/☎//☎//☎//☎/ ※※/HDR/%/∞3/20*2/☎/∞2/∞//∞//☎/∞2/☞//☆/☞/ ™MACASAD	Index
C*1 / M / Av / Tv / P / ﷺ / AUTO / ⊘₁ (ຈ) / / / / / ፠ / IM / ⑨ / ῷ / ৶*2 / ⓒ / 秦 / ♀ / ☑ / ⊘ / ݤ / ኵ / 孺 / 艸 / ⊒*	

When Set to PAL

ETT) 50.00P

C*1/M/Av/Tv/P/题/AUTO/公小物/图/图/图/图/题/ ◎ ※/ HR/ ?/ ♪/ ♪/ ◎ / ♪/ 2/ 2/ 2/ 2/ ?! !!!! ETTD 25.00P

C*1/M/Av/Tv/P/题/AUTO/如/約/图/图/图/图/题/题/ 🏽 🎆 / HDR / 😭 / 🎒 / 🦺 / 💽 / 🌒 / 🚊 / 🞑 / 🍘 / 🎇 / 🛒 / 🛒 / 🛒 / 🕌 / HD 25.00P

C*1/M/Av/Tv/P/题/AUTO/如/約/图/图/图/图/》 🏽 🛞 / HDR / 🔋 / 🎲 / 🎍*² / 💽 / 🍝 / 🚊 / 🗖 / 🏩 / 🏹 / 拱 / 拱 / 🙀 / 💥 / UGM 25.00P

C*1 / M / Av / Tv / P / 🖓 / AUTO / 🖓 / 🕅 / 🕅 / 🕅 / 🕅 / 🕅 / 8 🛞 / HDR / 🔋 / 🎝 / 🍓*² / 🔽 / 🌒 / 🌒 / 🗶 / 🗶 / 🖉 / 🎘 / 🖳 / 👯 / 👾 /

Self-Timer (<u>40</u>)

COFF

C*1/M/Av/Tv/P/题/AUTO/如/約/图/图/图/题/题/题/ Gi) (3/62/62

C**/M/Av/Tv/P/A*/AUTO/ 🖓 / 🕅 / 🖾 / 🖾 / 🖉 / 🖉 / · ﷺ / HIR / @ / 🌒 / 🍓 / 💽 / 🍨 / 🗶 / 🗖 / 🏩 / 🌉 / 🛒 / 🛒 / 🛒 /

Self-Timer Settings (241)

Delav*3

| ※※ / HDR / ② / ③ / 過 / 🜀 / 参 / 🏖 / 🗖 / ② / 第 / "只 / 謂 / 兴 / 🔐 Shots*4

C*1/M/Av/Tv/P/示/AUTO/公/物/图/图/图/图/。 ﷺ/ HR/ 第/ 勐/ 過/ ◙/ ♣/ Ձ/ ◪/ 곑/ 第/ 円/ 滿/ 艸/ —

ND Filter (Д,177) ₩	Before Use
 C*1 / M / Av / Tv / P / ఊ / AUTO / ⊘₁ / � / / / / /	Basic Guide
ﷺ / ᡰѬ / Ҽ / 勐 / ऺ / ा ⊂ / Ѧ / 🔽 / 🖉 / Ҽ / 閉 / मू / 占 / भू / 占 Ѭ	Advanced Guide
C*1 / M / Av / Tv / P / ﷺ / AUTO / ☜ / 勒 / 醫 / 圈 / 囫 / / 웹 / ﷺ / Ⅲ / ֎ / ῷ / 渔 / ◙ / ▲ / ◙ / ▲ / ◙ / 凜 / 凜 / 灣 / ☵ / ☵ / ☵ / ☵	Camera Basics
	Auto Mode / Hybrid Auto Mode
C*1/M/Av/Tv/P/郄/AUT0/∞1/�/愛/፼/፼/፼//@/ ፠/\₩/%/ŵ/違/@/を/Ձ/⋥/@/?#//?!!*	Other Shooting Modes
Still Image Aspect Ratio (囗47) 16:9	P Mode
C*1/M/Av/Tv/P/郄/AUTO/◇コ/や/図/図/図/////////////////////////////	Tv, Av, M, and C Mode
C*1 / M / Av / Tv / P / 郄 / AUTO / ◇リ / � / ֎ / ֎ / @ / @ / / 』 / ፠ / เพ / ֎ / 釠 / ౨ / ◙ / ▲ / ◯ / 奎 / 黑 / / ֎ / 뿐 / '昗 / 刁 / ?! ; च	Playback Mode
4:3	Wi-Fi Functions
C*1/M/Av/Tv/P/郄/AUT0/∞1/�/፼/፼/፼//@// ፠//// **/****************************	Setting Menu
1:1 C*1 / M / Av / Tv / P / № / AUTO / ∞ / � / ፼ / ፼ / ፼ / ፼ / ፼ / ፼ /	Accessories
ﷺ / ₩R / ♥ / ௵ / ▲ / ௵ / ▲ / ♥ / ♥ / ♥ / ₩ / ₩ / ₩ / ₩ / ₩	Appendix
	Index
C*1/M/Av/Tv/P/☎1/AUT0/∅1/秒/፼/፼/፼/፼//2//2/ ፠/\™/፪/ὦ/過/@//\$/\$/2/@/@/ア/?/?/?	
※/ ▲/ ※/ ※/ ※ C*1/M/Av/Tv/P/题/AUTO/ ◇1/③/ ③/ 图/ 图/ 图/ 》	
C*//M/AV/IV/P/A*/AUIO/⊘/9/9/0/M/M/M/ ※//M/9/0/A/IO/P/A*/2/2/2/2/9/0/M/M/M/ ※//M/9/0/A/IO/P/A*/2/2/2/2/2/0/0/ 8//M/0/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/	

4

 \square^1/\square^2

WB Correction (Q78)

C' 1 / M / Av / Tv / P / ☎ / AUTO / ⊘₁ ?) ? 図 / 図 / 図 / ∅ / ∅ / ∅ ፠ / IRR / ஜ / ゐ / ゑ / ⊙ / 秦 / Չ / ☑ / @ / 夜 / ♥ / ♥ / ख़ / № / ☞

Color Adjustment (📖 68)

C/M/Av/Tv/P/ℤ/AUT0/∞/Ϡ/≌/⊠/⊠/⊠/∞//◎/ ※/IR/9/◎/⊿/©/≉/≗/⊆///2/≌/!∏/ख/!?/

My Colors (🛄 79)

40FF

C*1/M/Av/Tv/P/♂/AUT0/∞)/%/⊠/⊠/⊠/@//?/ ∭/IR/%/ŵ/@/@/©/≰/2///%/?!/?!/?

DR Correction (

COFF

C*1/M/Av/Tv/P/☎/AUT0/∞)/Ϡ/⊠/⊠/∅/ℤ/20/ ፠/Im/೫/೫/3/∞/∞/≮/2/2/2/2/?

FAUTO

G200%

Shadow Correct (QQ77)	Before Use	
COFF		
ᢗ** / M / Av / Tv / P / ഈ / AUTO / ◇♪ / 勒 / 閏 / ፼ / 諲 / 諲 / ፠ / № / ֎ / 勐 / 過 / ⓒ / 拳 / உ / ब / @ / ₩ / 兲 / శ / 兴 / ╦	Basic Guide	
	Advanced Guide	
C*1/M/Av/Tv/P/☎/AUT0/∞1%/™/∞/∞/∞/∞/∞/∞/∞/ ※/₩/%/∞/2.	Camera Basics	
Light Metering (🛄74)	Auto Mode /	
	Hybrid Auto Mode	
C*1/M/Av/Tv/P/☎1/AUT0/⊘ン)/�/図/図/図/∞//◎// ※/\W(/@/@/@/@/@//@//@//@//@//@//?//@//@/	Other Shooting Modes	
	P Mode	
C*1/M/Av/Tv/P/☞/AUT0/∞1%/®/®/®// ፠/₩/%/\$/↓♪/©/♪/₽/₽//₽//₽/*/	Tv, Av, M, and C Mode	
 *1 Options vary depending on the assigned shooting mode. *2 Synchronizes with the aspect ratio setting and is automatically set (\$\$\overline\$60\$). *3 Cannot be set to 0 seconds in modes without selection of the number of shots. 	Playback Mode	
 *4 One shot (cannot be modified) in modes without selection of the number of shots. *5 Automatically set, matching the aspect ratio specified in [Movie rec. size]. 	Wi-Fi Functions	
 *6 White balance is not available. *7 Set in a range of 1 – 5: contrast, sharpness, color saturation, red, green, blue, and skin tone. 	Setting Menu	
	Accessories	
	Appendix	
	Index	



Shooting Tab

[C1] Tab

Rec. Mode (🕮 57, 🛄 58, 🛄 69)

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Image quality (148. 190)

JPEG

RAW

6

C*1 / M / Av / Tv / P / 🖓 / AUTO / 🖓 / 🕄 / 🕄 / 🕅 / 🐼 / 😭 /

4

ﷺ/₩/ﯞ/╗/劃/፬/≰/ミ/፬// ∦/□// 湯/₩/₩/ **6**M1

C*1/M/Av/Tv/P/2/AUTO/2/1/9/8/8/8/8/8/

M1

- ▒/ ᡰロヌ / @ / ♪ / ♪ / @ / ♠ / ② / ▲ / ② / ▲ / @ / 뿐 / 昃 / ☞ / ♥/ ☞ sM2

C*1/M/Av/Tv/P/2/AUTO/ (1/2)/ (◎※/〒2010年100/●/◎/@/@/第/〒/読/☆/

IM2	Before Use
C*1 / M / Av / Tv / P / 郄 / AUTO / ◇> / � / 函 / ⊠ / ⊠ / ∅ / ↗ / 웹 / ﷺ / ₩ / ♀ / ᢏ) / 逸 / ፬ / 奎 / ♀ / ♀ / ♀ / ♀ / 津 / 吽 / 尋 / 艸 / ↓	Basic Guide
۵S	
C*1/M/Av/Tv/P/A/AUTO/@/@/@/@/@/@/@/	Advanced Guide
ﷺ/ᡰѬ/ @/ ゐ/ ゐ/ ◙ / ゑ/ 』/ / ゑ/ 閉/'用/ ᄰ/ !!!/ ▲S	Camera Basics
C** / M / Av / Tv / P / ☞ / AUTO / ☜ / Ϡ/ ◙ / ◙ / ፼ / ፼ / ፼ / ﷺ / ₩ / ֎ / ῷ / ֎ / ☜ / ▲ / ☜ / ▲ / ☎ / @ / @ / ₽ / ₱ / ☞ /	Auto Mode / Hybrid Auto Mode
RAW	Other Shooting Modes
-	•
C*1 / M / Av / Tv / P / ☎ / AUTO / ◇) / � / ፼ / ፼ / ፼ / ፼ / ፼ / ፼ / ፼ / ፼ / ፼	P Mode
RAW	Tv, Av, M, and C Mode
C*1/M/Av/Tv/P/☞/AUT0/∞1%/◙/⊠/∞//◎// ※/IR/%/③/♪/©/≰/⊆/@/@/??/!∏/??	Playback Mode
Still Image Aspect Ratio (🛄 47)	
For details, see "Quick Set Menu" (Q192).	Wi-Fi Functions
Shooting information display (Q98) Screen info/ toggle settings	Setting Menu
	Accessories
Grid display	Appendix
Grid 1 ##/Grid 2 ###	
C*1/M/Av/Tv/P/スᢪ/AUT0/☆リ/�/愛/図/図/// 2// ※////?//?///////////////////////////	Index
Histogram	
Brightness/RGB	
C*1 / M / Av / Tv / P / ☎ / AUTO / ◇カ / � / 函 / 函 / 函 / ∅ / ∅ / ∅ / ∅ / 2 / ※ / Ю≀ ֎ / ❹ / ❹ / ፬ / 奎 / ♀ / ☑ / 徑 / ♥ / ♥ / 喃 / ☞ / ♥	
	10

←

Review image after shooting (154)

Display Time

Off/Quick

2 sec./4 sec./8 sec.

C⁺1/M/AV/TV/P/♂1/AUTO/♡1/�/♥/⊠/∞//♥/21/27/20 ※/IR/%/ŵ/♪/♪/©/♪/2/2/2/2/?!/*//♂/**/ Hold

C*1/M/Av/Tv/P/ZP/AUTO/公订/約/图/图/图//图//图//图/ ◎ ※ / 旧R / 曾 / 勐 / 過 / 10 7 多 / 象 / ▲ / ▲ / ▲ / 第 / 男 / 湯 / 兴 / 〓

Display Info

Off

C*1/M/Av/Tv/P/AT/AUTO/ 🖓 / 🕲 / 🕺 / 🕲 / 🖉 / 🖉 / ◎ ※ / 旧R / 曾 / 勐 / 過 / 10 7 多 / 2 / 2 / 2 / 2 / 第 / 門 / 読 / 艸 / 一 Detailed

C*1 / M / Av / Tv / P / 🖉 / AUTO / 🖓 / 🕅 / 🖾 / 🕅 / 🖉 / 🖉 /

[**C**2] Tab

Touch Shutter (42)

Touch Shutter

Enable

C*1 / M / Av / Tv / P / 🖉 / AUTO / 🖓 / 🕲 / 🕅 / 🕅 / 🕅 / 🕅 / 🏽 🎇 / HDR / 😭 / 🎒 / 🌲 / 💽 / 🏝 / 🞑 / 🞑 / 🏩 / 🏹 / 🐺 / 🛒 / 👾 / 🚽 Disable

◎ ※ / 旧R / 曾 / 勐 / 過 / 10 7 多 / 2 / 2 / 2 / 2 / 第 / 門 / 読 / 艸 / 一

Touch shutter icon	Before Use
On	
C*1 / M / Av / Tv / P / ☎ / AUTO / ◇♪ / � / 函 / ፼ / ፼ / ፼ / ፼ / ፠ / ₩ / @ / @ / @ / @ / @ / @ / @ / @ / @	Basic Guide
Off	Advanced Guide
C*1 / M / Av / Tv / P / ☎1 / AUTO / ⊘ो / ऄ / 函 / 函 / ळ / ∅ / ₪ / ▒ / № / @ / ゐ / ゐ / 靣 / 奢 / 魚 / ⌒ / 곑 / @ / @ / ♥ / 見 / ╦ / № / ☞	Camera Basics
Face ID Settings (Q43)	Auto Mode / Hybrid Auto Mode
On/Off	Hybrid Auto Mode
C*1/M/Av/Tv/P/☎/AUT0/◇コ/%/蹬/蹬/፼/፼//2/ ※/I®/◎/ふ/&/案/2//2//?!**	Other Shooting Modes
Set '🕂 button (🛄 99)	P Mode
C*' / M / Av / Tv / P / ☎' / AUT0 / ◇リ / Ϡ / ☎ / ☎ / ☎ / ☎ / ☎ / ☎ / ☎ / ☎ / ☎	Tv, Av, M, and C Mode
Control Ring Settings (📖 97)	
Switch with Op	Playback Mode
On/Off	Wi-Fi Functions
C*1 / M / Av / Tv / P / 🜌 / AUTO / 🖓 / 🖬 / 💌 / 💌 / 🗃 /	WI-FI Functions
ﷺ / HIR / இ / 勐 / 盘 / ा / 全 / ⊇ / ा / 全 / 副 / म / I / I / / ₩ / I I / I / I / I / I / I	Setting Menu
C*1 / M / Av / Tv / P / ﷺ / AUTO / ⊘₂ / ❥ / ◙ / ֎ / ፼ / ፼ / ﷺ / \\\\? () / ᇓ / ᇓ / @ / 奎 / ᇍ / 🖉 / 魚 / @ / ※ / 및 /	Accessories
Quick setting menu layout (💭100)	Appendix
C*1 / M / Av / Tv / P / ☎1 / AUTO / ⊘1 / 秒 / 函 / ፼ / ፼ / ፼ / ፼ / ፠ / № / @ / ♪ / ♪ / @ / ♪ / □ / ♪ / □ / @ / ₽ / ♥ / ♥ / ₽	Index
Save Settings (🛄 101)	
C*1/M/Av/Tv/P/ጬ/AUT0/∞1%/™/™/∞/∞/%/™/ ∭/₩/%/∞/∞//∞//∞//∞//∞//∞//™/*	

Digital Zoom (

Standard

Off

C''/M/Av/Tv/P/२ (AUTO/∞)/२/२/२/२/२/? (?)/ ※/เพ/९/३/३/2/∞/*/2/2/2/2/2/? Lock

1.6x/2.0x

C*1/M/Av/Tv/P/A*/AUTO/ 🖓 / 🕃 / 🛃 / 🐼 / 😨 / ※/IR/@/@/@/@/@/@/@/@/@/@/@/?!?!

[**3**] Tab

AF-Point Zoom (150)

On

C⁺1 / M / Av / Tv / P / ♂ / AUTO / ♡ / ♥ / 図 / Ø / Ø / Ø / Ø / ? 1 @ / ∭ / Ⅲ / ♥ / ③ / ৶ / ⊙ / ≉ / ≗ / ☑ / ② / ♥ / ♥ / ♥ / ♥ / ♥ / ♥ / Off

C*1/M/Av/Tv/P/№1/AUT0/∞1/%)/®/®//@//%//@/ ∭/I®/%)/@//@//@//*/2////%//%//%//%//%//

AF operation (Q85)

For details, see "Functions Available in Each Shooting Mode" (190).

AF method (Q33)

For details, see "Quick Set Menu" (Q192).

AF Frame Size (∭84)*₂	Before Use
Normal	
C*1/M/Av/Tv/P/☎/AUT0/◇カ/�/図/図/図/縲/縲/ ※/\\\{\$/\$/\$/@/@/\$/2/[0]/*/2/2/@/*/'♥/♂/??/	Basic Guide
Small	Advanced Guide
C*1 / M / Av / Tv / P / 郄 / AUTO / ◇功 / � / 函 / 函 / ∅ / ∅ / ∅ / ∅ / ∅ / ∅ / ∅ / ∅	Camera Basics
Continuous AF (🛄85)	Auto Mode /
On	Hybrid Auto Mode
C*1 / M / Av / Tv / P / ☎1 / AUTO / ◇リ / � / ◙ / ፼ / ፼ / ፼ / ፼ / ፼ / ፼ / ፼ / ፼ / ፼	Other Shooting Modes
Off	P Mode
C*1/M/Av/Tv/P/२३/AUTO/⊘ो/२/छ/छ/छ/२/२/७/ ※/เพ/९/३/३/८०/४/२/२/२/२/४/१/२/२/२/२/	Tv, Av, M, and C Mode
Focus Range (💭80, 💭81)	
For details, see "Functions Available in Each Shooting Mode" ((1)190).	Playback Mode
AF-assist Beam (💭 53)	Wi-Fi Functions
On	
C*1/M/Av/Tv/P/2*/AUTO/Oy/%/@/@//////////////////////////////	Setting Menu
※/IDR/會/動/過/回/条/至/面/會/智/東/语//果/ Off	Accessories
C*1/M/Av/Tv/P/☎!/AUT0/∞)/�/Ფ/፼/፼/፼/፼/ ※//№/֎/ῷ/֎/©/≉/Չ/질/@/@/₽/?#/?	Appendix
	Index



[**C**4] Tab

MF-Point Zoom (📖81)

Off

C⁺ / M / Av / Tv / P / ♂ / AUTO / ⊘) / � / 函 / @ / @ / @ / @ / ﷺ / IRR / ֎ / ③ / ▲ / ⊙ / 秦 / Ձ / ☑ / @ / ₽ / ♥ / ♥ / ₩ / ☞ / ??! / 2x/4x

Safety MF (Q81)

On

C*'/M/Av/Tv/P/☎'/AUT0/⊘\/%)/֎/፼/፼//@// ፠/เพ/%/ŵ/』/@//@//@//@//@//@//@/

MF Peaking Settings (📖 82)

Peaking

On/Off

Level

Low/High

C*1/M/Av/Tv/P/☞/AUT0/∞1/�/♥/፼/፼/፼//@/ ※/I®/ @/@/@/[@/[@/[@/]@/]@/@/

Color

Red/Yellow/Blue

C*1/M/Av/Tv/P/☎1/AUT0/⊘1/�/⊠/⊠/⊠/∞//₩// ∭/IR/®/☺/過/©/≱/⊇/⊆/@/⊮/!™//⊡

IS Settings (🛄52)	Before Use
IS Mode	
Off	Basic Guide
C*1 / M / Av / Tv / P / ﷺ / AUTO / ∞) / % / ⊠ / ⊠ / ∅ / ∅ / ∦ / ≌ / ﷺ / lttt / % / ቇ / ◎ / ቇ / ⊙ / ♠ / ♀ / ⊿ / @ / ≇ / '☴ / 镭 / '艸 / ᇦ ♥	Advanced Guide
	Camera Basics
C ⁺¹ / M / Av / Tv / P / ﷺ / AUTO / ∅J / ⅌ / ⊠ / ፼ / ፼ / ፼ / ፼ / ፼ / ፼ / ∰ / ttt / ֎ / ֎ / @ / ▲ / ஂஂ / ▲ / ஂஂ / ▲ / ஂஂ / ▲ / ``` Shoot Only	Auto Mode / Hybrid Auto Mode
C** / M / Av / Tv / P / ﷺ / AUTO / ∞) / � / ◙ / ⊠ / ⊠ / ∅ / ∅ / ∅ / ፠ / № / ® / ὦ / 過 / ፬ / 奎 / Ձ / 질 / ② / ≇ / ", / 镭 / № / ≣"	Other Shooting Modes
Dynamic IS	P Mode
Low	
C*1/M/Av/Tv/P/№1/AUT0/∞1/�/፼/፼/፼/፼/፼// ፠/liR/%/ŵ/過/@//を/筙///////////////////	Tv, Av, M, and C Mode
Standard	Playback Mode
C*1 / M / Av / Tv / P / ﷺ / AUTO / ⊘₁ / 勒 / ☜ / 經 / 經 / ☞ / 웹 / ﷺ / № / ⊛ / 勐 / 逾 / ▲ / ◙ / ▲ / Չ / 젵 / 全 / 第 / '栗 / 彊 / '艸 / 書''	Wi-Fi Functions
High	Setting Menu
C/M/Av/Tv/P/郄/AUT0/∞/約/函/⊠/⊠/經///// ፠/\®/\$/\$/♪/@/♪/©/♪/2/2/2/?//////////////////////////	Accessories
Muto level	
Enable	Appendix
C*1 / M / Av / Tv / P / 緡! / AUTO / ⊘≀ (Ϡ) / 雲 / ፼ / ፼ / ፼ / ፼ / ፼ / ﷺ / № / ⊛ / 過 / @ / ▲ / ◯ / 奎 / Չ / 僅 / 僅 / ♥ / ♥ / ॡ / ♥ / ♥	Index
Disable	
ᢗᡃ᠋/M/Av/Tv/P/ఊ/AUT0/∞ィৢ/জ/፼/፼/፼// ፠/腳/%/औ/৶/©/๕/Չ/๔/൙/ア/'ฅ/ॡ/?*	

Bracketing (276, 282)

For details, see "Functions Available in Each Shooting Mode" (Q 190).

[**6**5] Tab

ISO speed (🛄 76)

Max ISO Speed

C*1/M/Av/Tv/P/♂1/AUT0/∞1/♥/◙/⊠/@/@//?/1@/ ∭/IR/9/@/@/@/0/≉/2///@/@/?!!!!

Rate of Change

C*1/M/Av/Tv/P/♂1/AUT0/⊘1/∜/⊠/⊠/⊠/∅/∅/∅/2/12/ ※/IR/%/☆/⊿/©/≰/≗/⊇/⊘/⊘/?/∜/™//?

DR Correction (Q77)

For details, see "Quick Set Menu" (192).

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For details, see "Quick Set Menu" (Q192).

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For details, see "Quick Set Menu" (192).

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Flash Mode

Auto

C⁺ / M / Av / Tv / P / ﷺ / AUTO / ∅) / ♥ / ⊠ / ⊠ / ⊠ / ∅ / ₪ / ﷺ / Ⅲ / ⑨ / 肇 / ⓓ / ⓓ / ◙ / ▲ / ℚ / 肇 / ⊉ / ☑ / ৫ / 第 / ♥ / ₩ / ः

Manual

C¹/M/Av/Tv/P/♂/AUTO/⊘1/�/♂/ऌ/ऌ/@/ ※/ℝ/%/♂/&/⊙/∳/≥/⊆/@/?/?/?/??

Flash Exp. Comp Refore Use For details, see "Functions Available in Each Shooting Mode" $(\square 190)$ **Basic Guide** Flash Output For details, see "Functions Available in Each Shooting Mode" Advanced Guide ([]]190). Shutter Sync. Camera Basics 1st-curtain Auto Mode / C*1 / M / Av / Tv / P / 🗗 / AUTO / 🖓 / 🕅 / 🕅 / 🕅 / 🕅 / 🕅 / Hvbrid Auto Mode **Other Shooting Modes** 2nd-curtain P Mode Red-Eve Lamp Tv. Av. M. and C Mode On/Off C*1 / M / Av / Tv / P / 🖉 / AUTO / 🖓 / 🕅 / 🕅 / 🕅 / 🕅 / 🦉 / 🕅 / Playback Mode 🏽 / HIR / 😭 / 🎒 / 🎒 / 💽 / 🌪 / 🗶 / 🗖 / 🏩 / 📰 / 🖳 / 🠺 / 🛒 / 🛒 / Safety FE Wi-Fi Functions On Setting Menu C*1 / M / Av / Tv / P / 🖉 / AUTO / 🖓 / 🕅 / 🖾 / 🖾 / 🖾 / 🕼 / Off Accessories C*1 / M / Av / Tv / P / 🞥 / AUTO / 🖓 / 🕄 / 🖾 / 🖾 / 🖉 / 🕼 / ∭/₩/9/0/<u>4</u>/0/€/2/2/2/2/2/2/2/*/*/* Appendix Save 🖑 Stills (📖 66) Index On/Off

Star Emphasis (

Sharp/Off/Soft

C/M/Av/Tv/P/Z*/AUTO/۞/۞/@/Z/@/@/@/ ※/IR/9/③/&/@/@//?///?//?

Star Time-Lapse Movie Setting (266)

Effect

📩 / 🔚 / 🚮 / 🚮 / 🖓

C/M/Av/Tv/P/☎/AUT0/∞/�/窗/⊠/⊠/@/@// ※/IR/ @/◎/⊿/で/≉/≗/ ┛/@/♥/Ţ/蓿/??/

Shot Interval

15 sec./30 sec./1 min.

C/M/Av/Tv/P/ቖ/AUT0/∞/%/8/⊠/⊠/@/%/20 ※/IR/%/ŵ/&/©/≉/2/2/2/?/?//?//?//?/

Frame Rate

(PAL) (T14.99 / T29.97 (NTSC), T12.50 / T25.00 (PAL)

Shooting Time

60 min./90 min./120 min./Unlimited

C/M/Av/Tv/P/ቖ/AUTO/∞/%/8/⊠/⊠/@/%/8/ ※/IR/%/\$/\$/2/2/*/2/2/2/%/*/*

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C⁺ / M / Av / Tv / P / ﷺ / AUTO / ☉/ Ͽ/ 図/ 図/ 図/ 図/ ⑧/ ⑧/ ﷺ / Ⅲ/ ⑧/ ◎/ 過/ ☉ / ♣/ ೩/ ☑/ ②/ ֎/ ℙ/ ≒/ 瓀/ ஜ/ ☞

Safety Shift (QQ93)

On

[**6**] Tab

C*1/M/Av/Tv/P/♂1/AUT0/∞1/♥/⊠/⊠/⊠/@/@/ ∭/IIR/®/♂1/⊉/©/≰/≗/⊆/@/?F/'見/?T/??

Off

C*'/M/Av/Tv/P/♂!/AUT0/∞)/%/⊠/⊠/@/@/@/@/ ፠/m/%/\$/@/@/@/@/?*/?*/?*

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Blink Detection (

On

Off

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Digest Type (🛄 35)

Include Stills/No Stills

[**1**8] Tab

Movie Quality (QQ 49)

For details, see "Quick Set Menu" (Q192).

Wind Filter (Q70)

Auto

Attenuator (Q71)

On/Off

Auto

C*1 / M / Av / Tv / P / ☎ / AUTO / ⊘ŋ / � / 函 / 函 / 函 / ∅ / ∅ / ∅ / ∅ / ﷺ / Im / ֎ / 勐 / 勐 / 靣 / Ѧ / Չ / ☑ / 질 / ֎ / ₱ / ₱ / 瓀 / 艸 / ☞

🆳 Auto slow shutter (🛄 70)

Enable

C/M/Av/Tv/P/ℤ/AUT0/∞/ѷ/ѷ/ѷ/№/№/№/№/№/ ※/№/९/ѽ/৶/©/҂/≗/⊆/⊘/♡/?,/╦/№/

Disable

C*1/M/Av/Tv/P/☎/AUT0/∞)/�/፼/፼/፼/@//@// ፠/m//@/@/@/@//@//@//@//@//@//

- *1 Options vary depending on the assigned shooting mode.
- *2 Available when the AF frame is set to [1-point].
- *3 [Enable] for functions other than Creative Zone and movies



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Handling Precautions

- The camera is a high-precision electronic device. Avoid dropping it or subjecting it to strong impact.
- Never bring the camera near magnets, motors, or other devices that generate strong electromagnetic fields, which may cause malfunction or erase image data.
- If water droplets or dirt adheres to the camera or screen, wipe with a dry soft cloth, such as an eyeglass cloth. Do not rub hard or apply force.
- Never use cleaners containing organic solvents to clean the camera or screen.
- Use a blower brush to remove dust from the lens. If cleaning is difficult, contact a Canon Customer Support Help Desk.
- To prevent condensation from forming on the camera after sudden temperature changes (when the camera is transferred from cold to warm environments), put the camera in an airtight, resealable plastic bag and let it gradually adjust to the temperature before removing it from the bag.
- If condensation does form on the camera, stop using it immediately. Continuing to use the camera in this state may damage it. Remove the battery 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.

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Specifications

Camera

Image Sensor Camera Effective Pixels (Image processing may cause a decrease in the number of pixels.) Approx. 20.2 million pixels Image Size.....1.0 type Lens Focal Length Zoom Factor 3x **Digital Zoom** Maximum with Optical ZoomApprox. 12x Focal Length (Telephoto end, 35mm film equivalent).....Equivalent to approx, 336 mm **ZoomPlus** (L size)......Approx. 6.0x Screen (Monitor) TypeColor TFT LCD Effective Pixels Approx. 1,040,000 dots Continuous Shooting Speed (Varies depending on the subject. zoom position, and other shooting factors, as well as memory card brands.)One-Shot AF: Approx. 6.0 shots/sec. Servo AF: Approx. 4.3 shots/sec.

Built-in Flash

Aperture

 $\begin{array}{l} \mbox{Metering Range (Wide angle end).....50 cm-6.0 m (1.6-20 ft.) } \\ \mbox{Metering Range (Telephoto end).....50 cm-2.4 m (1.6-7.9 ft.) } \end{array}$

Shutter Speed Auto Mode (Auto Settings)......1 – 1/2000 sec. Other Modes Combined.......30 – 1/2000 sec., bulb supported

f/number	.2.0 – 11 (W) 4.9 – 11 (T)
АҒ Туре	.1-point, Face+Tracking (AF points: up to 31)
File Format	Design rule for Camera File system, DPOF (version 1.1) compliant
Data Type (Still Images) Image File Format Image Formats	
Data Type (Movies) Recording Format Video Audio	.MPEG-4 AVC/H.264

Power Source Battery PackNB-13L Charging via USBUsing Compact Power Adapter CA-DC30/CA-DC30E AC Adapter KitACK-DC110

Interface

WiredUSB (Micro-B), HDMI (Type D) WirelessSpecifications: IEEE 802.11b/g/n Frequency: 2.4 GHz Channels: 1 – 11 Security: WEP, WPA-PSK (AES/ TKIP), WPA2-PSK (AES/TKIP)

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Operating Environment Temperatures	0 – 40 °C (32 – 104 °F)
Dimensions (WxHxD)	98.0 x 57.9 x 30.8 mm (3.86 x 2.28 x 1.21 in.)
Weight	

Including Battery Pack,	
Memory Card	Approx. 209 g (7.37 oz.)
Camera Only	Approx. 185 g (6.53 oz.)

Number of Shots/Recording Time, Playback Time

Number of Shots	Approx. 220
Number of Shots (Eco Mode On)	Approx. 335
Movie Recording Time (Actual Use)*1	Approx. 55 minutes
Movie Recording Time (Continuous Shooting)* ²	Approx. 1 hour 30 minutes
Playback Time*3	Approx. 5 hours

*1 Total time when shooting repeatedly under the following conditions: - In [AUTO] mode, with all other settings set to defaults

- With recording, stopping, zooming, and turning the camera on and off

*2 Total time when shooting repeatedly under the following conditions:

- In [AUTO] mode, with all other settings set to defaults

- Automatically stop/resume after the time or capacity per recording is reached

*3 Time when playing back a slideshow of still images.

Shooting Range

Shooting Mode	Focus Range	Maximum Wide Angle	Maximum Telephoto ([]])
AUTO	-	5 cm (2.0 in.) – infinity	35 cm (1.1 ft.) – infinity
	A	5 cm (2.0 in.) – infinity	35 cm (1.1 ft.) – infinity
Other modes	₩*	5 – 50 cm (2.0 in. – 1.6 ft.)	_
	MF*	5 cm (2.0 in.) – infinity	35 cm (1.1 ft.) – infinity

* Not available in some shooting modes.

Number of Shots per Memory Card

The number of shots at an aspect ratio (\square 47) of 3:2 per memory card is as follows. Note that the number of shots available varies by aspect ratio.

Number of shots per 16 GB memory card (approx. shots)

L -	S	1786	
		2999	
M1 -	s	2857	
		4810	
	S	8377	
M2		14724	
S –	s	48592	
		69418	
RAW		610	

 The values in the table are based on Canon measurement conditions and may change depending on the subject, memory card and camera settings.

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Defere Ller

Recording Time per Memory Card

Size	Frame Rate/ Video System	Recording Time per 16 GB Memory Card (Approx.)	Recording Time for Individual Movies (Approx.)
fare	[≝] ₩059.94₽ (NTSC) [≝] ₩050.00₽ (PAL)	59 min. 30 sec.	10 min.
[∎] fHD (1920 x 1080)	EFHD 29.97P, EFHD 23.98P (NTSC) EFHD 25.00P (PAL)	1 hr. 26 min. 05 sec.	29 min. 59 sec.
EHD (1280 x 720)	[≝] HD 29.97P (NTSC) [≝] HD 25.00P (PAL)	4 hr. 05 min. 15 sec.	29 min. 59 sec.
[∎] VGA (640 x 480)	[₽] VGA 29.97P (NTSC) [₽] VGA 25.00P (PAL)	10 hr. 22 min. 35 sec.	1 hr.

- The values in the table are based on Canon measurement conditions and may change depending on the subject, memory card and camera settings.
- Recording times for individual movies are based on memory cards rated at an SD speed class of 10. Recording may stop when cards rated at lower speed classes are used. Recording will also stop automatically when the file size reaches 4 GB, or when the card becomes full.

Battery Pack NB-13L

Type:Rechargeable lithium-ion batteryNominal Voltage:3.6 V DCNominal Capacity:1250 mAhCharging Cycles:Approx. 300 timesOperating Temperatures:0 - 40 °C (32 - 104 °F)

Battery Charger CB-2LH/CB-2LHE

Rated Input:	100 – 240 V AC (50/60 Hz)
	0.09 A (100 V) – 0.06 A (240 V)
Rated Output:	4.2 V DC, 0.7 A
Charging Time:	Approx. 2 hr. 10 min. (when using NB-13L)
Operating Temperatures	s: 5 − 40 °C (41 − 104 °F)

Compact Power Adapter CA-DC30/CA-DC30E

- Rated Input:100 240 V AC (50/60 Hz)Playback Mode0.07 A (100 V) 0.045 A (240 V)0.07 A (100 V) 0.045 A (240 V)Wi-Fi FunctionRated Output:5.0 V DC, 0.55 AWi-Fi FunctionCharging Time:Approx. 5 hr.*
(when charged with NB-13L in the camera)
* Charging time varies greatly depending on the
remaining battery level.Setting MenuOperating Temperatures:5 40 °C (41 104 °F)Accessories
- Size, weight, and number of shots available are 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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Wi-Fi (Wireless LAN) Precautions

- Countries and Regions Permitting WLAN Use
 - Use of WLAN is restricted in some countries and regions, and illegal use may be punishable under national or local regulations. To avoid violating WLAN regulations, visit the Canon website to check where use is allowed.

Note that Canon cannot be held liable for any problems arising from 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
- According to foreign exchange and foreign trade law regulations, export permission (or service transaction permission) from the Japanese government is necessary to export strategic resources or services (including this product) outside Japan.
- Because this product includes American encryption software, 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 wireless LAN settings you use. The wireless LAN 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. Be sure to make notes of wireless LAN settings as a precaution. 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 this product to another person, disposing of it, or sending it for repair, be sure to note the wireless LAN settings and reset the product to its default settings (erase settings) if necessary.
- 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.

- Be sure to use the product as directed in this guide.
 Be sure to use the wireless LAN function of this product within the guidelines noted in this guide. Canon accepts no responsibility for damages or loss if the function and product are used in ways other than as described in this guide.
- Do not use the wireless LAN function of this product near medical equipment or other electronic equipment.
 Use of the wireless LAN 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.

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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.



The camera can print to PictBridge-compatible printers via Wi-Fi. PictBridge technical standards make it easy to connect digital cameras, printers, and other devices directly. Additionally, a new standard called DPS over IP enables PictBridge connections in network environments, and the camera is also compatible with this standard.

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Refore Use

