# Canon

# PowerShot G9 X

## Camera User Guide

- Make sure you read this guide, including the "Safety Precautions" (☐14) 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.
  - ▶: Next page
  - ◀: Previous page
  - ↩: Page before you clicked a link

- To jump to the beginning of a chapter, click the chapter title at right.

ENGLISH

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## Before Use

# Initial Information

## Package Contents

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

Camera

Battery Pack
NB-13L*

Battery Charger
CB-2LH/CB-2LHE

Wrist Strap

\* 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] UHS-I memory cards are also supported.

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## 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 high-precision manufacturing conditions and more than 99.99% of the pixels meet design specifications, in rare cases some pixels may be defective or may appear as red or black dots. This does not indicate camera damage or affect recorded images.

- When the camera is used over an extended period, it may become warm. This does not indicate damage.

## Conventions in This Guide

- In this guide, icons are used to represent the corresponding camera buttons 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" (🔲4).
  [🔘]  Control ring (10) on front

- Shooting modes and on-screen icons and text are indicated in brackets.

- ①: Important information you should know

- 🖉: 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.

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## Part Names



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

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

(1) [[𝟁] (Flash pop up)] switch
(2) Screen (monitor)*²
(3) Microphone
(4) DIGITAL terminal
(5) HDMI™ terminal

(6) Movie button
(7) [[⑤] (Quick Set menu/Set)] button
(8) [MENU] button
(9) Indicator / USB charge lamp
(10) [INFO. (Information)] button

*1 Used with NFC features (□132).
*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 (□164).

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## Common Camera Operations

### 📷 Shoot

- Use camera-determined settings (Auto Mode, Hybrid Auto Mode)
  - 📖33, 📖35
- See several effects applied to each shot, using camera-determined settings (Creative Shot Mode)
  - 📖55

Shooting people well

Portraits
(📖57)

Matching specific scenes

Night Scenes  Starry Skies  Fireworks
(📖57)        (📖63)        (📖57)

Applying special effects

Vivid Colors      Poster Effect      "Aged" Photos
(📖58)            (📖58)             (📖59)

Fish-Eye Effect   Miniature Effect   Toy Camera Effect
(📖59)            (📖60)             (📖61)

Background Defocus  Soft Focus       Monochrome
(📖61)              (📖62)           (📖62)

- Focus on faces
  - 📖33, 📖57, 📖84
- Without using the flash (Flash Off)
  - 📖33
- Include yourself in the shot (Self-Timer)
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- Movie clips and photos together (Movie Digest)
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## ▶ View

## 🎥 Record/View Movies

## 🖨 Print

## 💻 Save

## 📶 Use Wi-Fi Functions

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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 you use.

| ⚠ Warning | Denotes the possibility of serious injury or death. |
|---|---|

- Do not trigger the flash in close proximity to people's eyes.
Exposure to the intense light produced by the flash could damage eyesight. In particular, remain at least 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 gets 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 yourself 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 eyes, 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 your 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.

- 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

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## Touch-Screen Operations

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

### Touching

Touch the screen brieÀy with your ¿nger.

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

### Dragging

Touch the screen and move your ¿nger **across it.**

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

## Initial Preparations

Prepare for shooting as follows.

### Attaching the Strap

z 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).

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

### Holding the Camera

z Place the strap around your wrist.

z 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.

z 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.

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

z **CB-2LHE:** Plug the power cord into the charger, then plug the other end into a power outlet.

z The charging lamp turns orange, and charging begins.

z When charging is finished, the lamp turns green.

**3** Remove the battery pack.

z 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 ▲ 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 (📖160).

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

### 2 Insert the battery pack.
- z 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.
- z If you insert the battery pack facing the wrong way, it cannot be locked into the correct position. Always confirm that the battery pack is facing the right way and locks when inserted.

### 3 Check your card's write-protect switch and insert the memory card.
- z 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).
- z Insert the memory card with the label (2) facing as shown until it clicks into place.
- z Make sure the memory card is facing the right way when you insert it. Inserting memory cards facing the wrong way may damage the camera.

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

- For guidelines on how many shots or hours of recording can be saved on one memory card, see "Number of Shots per Memory Card" (📖205).

## Removing the Battery Pack and Memory Card



**Remove the battery pack.**

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

z The battery pack will pop up.



**Remove the memory card.**

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

z 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.**

z Press the power button.

z The [Date/Time] screen is displayed.



**2 Set the date and time.**

z Touch the item to configure, and then touch [▲][▼] to specify the date and time.

z When finished, press the [⬚] button.



**3 Specify your home time zone.**

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

**4 Finish the setup process.**

z Press the [⬚] button when finished. After a confirmation message, the setting screen is no longer displayed.

z To turn off the camera, press the power button.

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

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

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## Changing the Date and Time

Adjust the date and time as follows.

**1  Access the menu screen.**

z Press the [MENU] button.

**2  Choose [Date/Time].**

z Touch [♥], and then touch [2].

z Touch [Date/Time], and then press the [⊛] button.

**3  Change the date and time.**

z Follow step 2 in "Setting the Date and Time" (📖20) to adjust the settings.

z Press the [MENU] button to close the menu screen.

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- 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).

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## ■Display Language

Change the display language as needed.

**1  Enter Playback mode.**

z Press the [▶] button.

**2  Access the setting screen.**

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

**3  Set the display language.**

z Touch a display language to choose it, and then press the [⊛] button.

z Once the display language has been set, the setting screen is no longer displayed.

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- The current time is displayed if you wait too long in step 2 after pressing the [⊛] button before you press the [MENU] button. In this case, press the [⊛] 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 [♥3] tab.

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- 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

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

### Shooting (Smart Auto)

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

**1  Turn the camera on.**

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

**2  Enter [AUTO] mode.**

z Set the mode dial to [AUTO].
z Aim the camera at the subject. The camera will make a slight clicking noise as it determines the scene.
z Icons representing the scene and image stabilization mode are displayed in the upper left of the screen.
z Frames displayed around any detected subjects indicate that they are in focus.

**3  Compose the shot.**

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

**4  Shoot.**

**Shooting Still Images**

**1) Focus.**

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

z If [Raise the flash] is displayed, move the [⚡] 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.

**2) Shoot.**

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

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**Recording Movies**

**1) Start recording.**

z Press the movie button. The camera beeps once as recording begins, and [●Rec] is displayed with the elapsed time (1).

z 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.

z Frames displayed around any detected faces indicate that they are in focus.

z Once recording begins, take your finger off the movie button.

**2) Finish recording.**

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

## Viewing

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

**1 Enter Playback mode.**

z Press the [▶] button.

z Your last shot is displayed.

**2 Choose images.**

z To view the next image, drag right to left across the screen, and to view the previous image, drag left to right.

z To access this screen (Scroll Display mode), quickly drag left or right repeatedly. In this mode, drag across the screen to browse through images.

z Press the [⚅] button to restore single-image display.

z 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.

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

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- You can also start movie playback by touching [ ▶ ].

## Erasing images

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

**1  Choose an image to erase.**

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

**2  Erase the image.**

‣ Press the [ ] button, choose [🗑], and then press the [ ] button.

‣ After [Erase?] is displayed, touch [Erase].

‣ The current image is now erased.

‣ To cancel erasure, touch [Cancel].

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- Images can also be erased by using Touch Actions (□119).
- You can choose multiple images to erase at once (□116).

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**Advanced Guide**

# Camera Basics

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

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## On/Off

**Shooting Mode**

z Press the power button to turn the camera on and prepare for shooting.
z To turn the camera off, press the power button again.

**Playback Mode**

z Press the [▶] button to turn the camera on and view your shots.
z 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 (☐26).
- 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.

## ■ 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 (📖26).

### Power Saving in Playback Mode

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

> 📝
> - You can deactivate Auto Power Down and adjust the timing of Display Off, if you prefer (📖162).
> - 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.

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

z 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.)

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

z Keep the camera still until the shutter sound ends.

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

## Shooting Modes

Use the mode dial to access each shooting mode.

(1) Auto Mode / Hybrid Auto Mode
Fully automatic shooting, with
camera-determined settings
(📖22, 📖33, 📖35).

(2) Creative Shot Mode
See several effects applied to
each shot automatically (📖55).

(3) Special Scene Mode
Shoot with settings designed for
specific scenes, or add a variety of
effects (📖57).

(4) Movie Mode
For shooting movies (📖69,
📖95).
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 (📖73,
📖92).

## Shooting Display Options

Press the [INFO.] 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.
> • For playback display options, see "Switching Display Modes"
> (📖105).

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## 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).

**1 Access the [Q] menu.**
- z Press the [ ] button.

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

(1)          (2)

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

**4 Con¿rm your choice and exit.**
- z Press the [ ] button.
- z 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 (📖166).
- ● You can also exit by touching [ ] in the menu.

### ▪ Using Touch-Screen Operations to Con¿gure Settings

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

## Using the Menu Screen

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



**1 Access the menu screen.**

z Press the [MENU] button.



(1) (2)

**2 Choose a tab.**

z Touch a tab to choose it.

z Tabs represent functions (1), such as shooting ([▢]), playback ([▶]), or settings ([♥]), or pages within each function (2). Tabs are identified in this manual by combining the function and page, as in [♥1].

z Page tabs can also be selected by moving the zoom lever or dragging left or right across the screen.



**3 Choose a menu item.**

z Touch an item to choose it, and then press the [⚄] button.

z You can also choose menu items by turning the [⚙] ring.

z For menu items with options not shown, first press the [⚄] button to switch screens, and then touch an item to choose it.

z To return to the previous screen, press the [MENU] button.



**4 Choose an option.**

z Touch an option to choose it.



**5 Con¿rm your choice and exit.**

z Press the [⚄] button to confirm your choice and return to the menu item selection screen.

z Press the [MENU] button to return to the screen displayed before you pressed the [MENU] button in step 1.

---

● To undo any accidental setting changes, you can restore the camera's default settings (📖166).
● Available menu items vary depending on the selected shooting or playback mode (📖195 – 📖202).

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## 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 [MENU↩].
- 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 [MENU] is shown, you can touch [MENU] instead of pressing the [MENU] button, if you prefer.
- When [INFO] is shown, you can touch [INFO] instead of pressing the [INFO] button, if you prefer.
- To dismiss the menu, press the [MENU] button again.

## On-Screen Keyboard

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

(1)

### Entering Characters

z Touch the characters to enter them.

z The amount of information you can enter (1) varies depending on the function you are using.

### Moving the Cursor

z Touch [←][→].

### Entering Line Breaks

z Touch [↵].

### Switching Input Modes

z To switch to numbers or symbols, touch [ ].

z Touch [⇧] to enter capital letters.

z Available input modes vary depending on the function you are using.

### Deleting Characters

z Touch [⊠] to delete the previous character.

z Touching and holding [⊠] will delete five characters at a time.

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**Confirming Input and Returning to the Previous Screen**

z Press the [MENU] button.

> ⚠ ● For some functions, [↵] is not displayed and cannot be used.

## Indicator Display

The indicator on the back of the camera (□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 (□92, □93), connected to a computer (□174), connecting/transmitting via Wi-Fi, or display off (□26, □161, □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.



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

> ● When the camera is off, press and hold the [ ] 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

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## Shooting with Camera-Determined Settings

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

### Shooting (Smart Auto)

▶ Still Images  ▶ Movies

**1  Turn the camera on.**
 z Press the power button.
 z The startup screen is displayed.

**2  Enter [ AUTO ] mode.**
 z Set the mode dial to [ AUTO ].
 z Aim the camera at the subject. The camera will make a slight clicking noise as it determines the scene.
 z Icons representing the scene and image stabilization mode are displayed in the upper left of the screen (37, 38).
 z Frames displayed around any detected subjects indicate that they are in focus.

## 3 Compose the shot.

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

(1)

(2)

## 4 Shoot.

### Shooting Still Images

**1) Focus.**

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

- z If [Raise the flash] is displayed, move the [✦] 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.

**2) Shoot.**

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

### Recording Movies

**1) Start recording.**

- z Press the movie button. The camera beeps once as recording begins, and [●Rec] is displayed with the elapsed time (1).
- z 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.
- z Frames displayed around any detected faces indicate that they are in focus.
- z Once recording begins, take your finger off the movie button.

(1)

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

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

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**3) Finish recording.**

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

**1 Enter [ ] mode.**

- z Follow step 2 in "Shooting (Smart Auto)" (□33) and choose [ ].

**2 Compose the shot.**

- z Follow steps 3 – 4 in "Shooting (Smart Auto)" (□33) to compose the shot and focus.
- z For more impressive digest movies, aim the camera at subjects about four seconds before shooting still images.

**3 Shoot.**

- z Follow step 4 in "Shooting (Smart Auto)" (□33) to shoot a still image.
- z 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 [ ] 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 [ HD 29.97P ] for NTSC or [ HD 25.00P ] for PAL and cannot be changed (□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 (□20) or time zone (□162) settings are changed.
>   - A new folder is created (□159).
> • 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) ▶ [ 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 [🎬] 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 [MENU] button, choose [Mute] on the [♥3] tab, and then choose [Off].

### Still Images

> ⚠️ ● A blinking [📷] icon warns that images are more likely to be blurred by camera shake. In this case, mount the camera on a tripod or take other measures to keep it still.
> ● If your shots are dark despite the flash firing, move closer to the subject. For details on the flash range, see "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" (📖205).
> ● 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 (📖37) 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 (📖54).

### 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.
>
> (1)
>
> ● 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] (📖52).

> 📝 ● 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) ▶ [📷7] tab ▶ [Wind Filter] ▶ [Off] (📖70).
> ● During movie recording, lens operating noises from auto focusing may also be recorded.

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## Scene Icons

In [ ] 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 ( 38).

| Subject | Background | | | | |
|---|---|---|---|---|---|
| | Normal | Backlit | Dark*1 | Sunsets | Spotlights |
| People | *2 | *3 | | – | |
| Moving People | *3 | *3 | – | – | – |
| Shadows on Face | *2 | – | – | – | – |
| Smiling | *3 | *3 | – | – | – |
| Sleeping | *2 | *3 | – | – | – |
| Babies | *3 | *3 | – | – | – |
| Smiling Babies | *3 | *3 | – | – | – |
| Sleeping Babies | *2 | *3 | – | – | – |
| Moving Children | *3 | *3 | – | – | – |
| Other Subjects | *2 | *3 | | | |
| Other Moving Subjects | *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 [ ] 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 [ ] ( 38,  42) and when [Hg Lamp Corr.] is set to [On] and scenes are automatically corrected ( 48).
- Backlit icons are not displayed for moving children and smiling people when the flash is set to [ ].
- 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 ( 44). Confirm beforehand that the date and time are correct ( 20).

> ⓘ • Try shooting in [P] mode ( 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 [🖾], [🖼], 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 [🅰🖳] in the menu, and then select [☐].

## Image Stabilization Icons

▶ Still Images  ▶ Movies

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

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

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

> 🖉 • To cancel image stabilization, set [IS Mode] to [Off] (☐52). In this case, an IS icon is not displayed.
> • In [🎬] mode, no [(→)] icon is displayed.

## 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. [ ] is displayed, and the camera enters Touch AF mode (□86). 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).

## Common, Convenient Features

### Zooming In Closer on Subjects (Digital Zoom)

► Still Images  ► Movies

When distant subjects are too far away to enlarge using the optical zoom, use digital zoom for up to about 12x enlargement.

**1  Move the zoom lever toward [[♦]].**

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

(1)

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

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

> ⚠ • Moving the zoom lever will display the zoom bar (which indicates the zoom position). The zoom bar is color-coded to indicate the zoom range.
> - White range: optical zoom range where the image will not appear grainy.
> - Yellow range: digital zoom range where the image is not noticeably grainy (ZoomPlus).
> - Blue range: digital zoom range where the image will appear grainy.
> • Because the blue range will not be available at some recording pixel settings (□90), the maximum zoom factor can be achieved by following step 1.

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- To deactivate digital zoom, choose MENU (📖29) ► [📷2] tab ► [Digital Zoom] ► [Off].

## 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).

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

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

✎ • When you are using digital zoom (📖39), 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.

**1** Con¿gure the setting.

z Press the [🔲] button, choose [🕐] in the menu, and then choose [🕐] (📖28).

z Once the setting is complete, [🕐] is displayed.

**2** Shoot.

z For Still Images: Press the shutter button halfway to focus on the subject, and then press it all the way down.

z For Movies: Press the movie button.

z Once you start the self-timer, the lamp will blink and the camera will play a self-timer sound.

z Two seconds before the shot, the blinking and sound will speed up. (The lamp will remain lit in case the flash fires.)

z To cancel shooting after you have triggered the self-timer, press the [MENU] button.

z To restore the original setting, choose [🕐] in step 1.

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## 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.

z Follow step 1 in "Using the Self-Timer" (📖40) and choose [ ].

z Once the setting is complete, [ ] is displayed.

z Follow step 2 in "Using the Self-Timer" (📖40) to shoot.

## Customizing the Self-Timer

► Still Images   ► Movies

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

**1** Choose [ ].

z Following step 1 in "Using the Self-Timer" (📖40), choose [ ] and press the [INFO.] button.

**2** Configure the setting.

z Touch the delay time or number of shots to choose one of these items.

z Touch [◄][►] to choose a value, and then press the [ ] button twice.

z Once the setting is complete, [ ] is displayed.

z Follow step 2 in "Using the Self-Timer" (📖40) to shoot.

⚠ ● For movies recorded using the self-timer, recording begins after your specified delay time, but specifying the number of shots has no effect.

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

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## 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.

**1  Enable the touch-shutter function.**

z Touch [⬛] and change it to [⬛].

**2  Shoot.**

z Touch the subject on the screen to take the picture.

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

z To cancel touch shutter, choose [⬛] 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" (🔲204).

**1  Con¿gure the setting.**

z Press the [⬛] button, choose [A] in the menu, and then choose [⬛] (🔲28).

z Once the setting is complete, [⬛] is displayed.

**2  Shoot.**

z 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 (🔲33) is not available. Also note that these features are not available.
  - [Hg Lamp Corr.] (🔲48)
  - [Blink Detection] (🔲51)
● With Touch Shutter (🔲42), 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, [⟨SET⟩ ⟨≞⟩] is displayed in the upper left of the screen.

> ⚠ ● If you erase a grouped image (ᐧ115), all images in the group are also erased. Be careful when erasing images.

> ✎ ● Grouped images can be played back individually (ᐧ110) and ungrouped (ᐧ110).
> ● Protecting (ᐧ113) a grouped image will protect all images in the group.
> ● Grouped images can be viewed individually when played back using Image Search (ᐧ107). In this case, images are temporarily ungrouped.
> ● The following actions are not available for grouped images: editing Face ID information (ᐧ111), magnifying (ᐧ112), tagging as favorites (ᐧ118), editing (ᐧ121), printing (ᐧ175), setting up individual image printing (ᐧ179), or adding to a photobook (ᐧ181). To do these things, either view grouped images individually (ᐧ110) or cancel grouping (ᐧ110) 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 (ᐧ108).

### 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 (ᐧ47).

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## Registering Face ID Information

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



**1  Access the setting screen.**

z Press the [ **MENU** ] button, choose [Face ID Settings] on the [■2] tab, and then press the [ ] button (□29).



z Touch [Add to Registry] to choose it, and then press the [ ] button.



z Choose [Add a New Face] and press the [ ] button.



**2  Register face information.**

z 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.

z 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.

z If the face is not recognized, you cannot register face information.



z After [Register?] is displayed, touch [OK].

z The [Edit Profile] screen is displayed.



**3  Register the person's name and birthday.**

z Touch the name text box to access the keyboard, and then enter the name (□30).



z To register a birthday, on the [Edit Profile] screen, touch the birthday text box.

z Touch an option to choose it.

z Touch [▲][▼] to specify the date.

z When finished, press the [ ] button.



**4  Save the settings.**

z Touch [Save].

z After a message is displayed, touch [Yes].

**5  Continue registering face information.**

z To register up to 4 more points of face information (expressions or angles), repeat step 2.

z 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.

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- The flash will not fire when following step 2.
- If you do not register a birthday in step 3, Babies or Children icons ( 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 ( 44).

## 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.



z When you point the camera toward people, the names of up to 3 registered people will be displayed when they are detected.

z Shoot.

z 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 ( 111).
- Because faces of babies and children change quickly as they grow, you should update their face info regularly ( 44).
- Names will still be recorded in images even if you clear the [Shooting Info] check box in "Customizing the Information Displayed" ( 99) 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) ( 105).
- 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



**1 Access the [Check/Edit Info] screen.**

z Following step 1 in "Registering Face ID Information" ( 44), choose [Check/Edit Info].

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**2** **Choose a person to check or edit their information.**

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

**3** **Check or edit the information as needed.**

z 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" (=44).

z 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.

**1** **Access the [Add Face Info] screen.**

z Following step 1 in "Registering Face ID Information" (=44), choose [Add Face Info].

**2** **Choose a person to overwrite their face info.**

z Touch the name of the person whose face info you want to overwrite.

z If five items of face info have already been registered, a message will be displayed. Touch [OK].

z 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.**

z Touch the face info you want to overwrite.

**4** **Register face information.**

z Follow step 2 in "Registering Face ID Information" (=44) to shoot, and then register the new face information.

z 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 (=45), and then register new face information (=44) as needed.

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## 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.



**1** **Access the [Erase Info] screen.**

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



**2** **Choose a person to erase their information.**

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

> ⚠ • If you erase a registered person's info, you will not be able to display their name (📖107), overwrite their info (📖111), or search for images that include them (📖108).

> 📝 • You can also erase names in image information (📖111).

## Image Customization Features

### ■ Changing the Aspect Ratio

▶ **Still Images**  ▶ Movies

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



- z Press the [⚙] button, choose [**3:2**] in the menu, and choose the desired option (📖28).
- z Once the setting is complete, the screen aspect ratio will be updated.
- z 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 [🎦] mode.
> • You can also configure this setting by choosing MENU (📖29) ▶ [📷1] tab ▶ [Still Image Aspect Ratio].

## 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" (□205).

z Press the [⊕] button, choose [🖼] in the menu, and choose the desired option (□28).

z The option you configured is now displayed.

z To restore the original setting, repeat this process but choose [🖼].

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

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

> ● Not available in [🖼] mode.
> ● 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.

z Press the [MENU] button, choose [Hg Lamp Corr.] on the [📷6] tab, and then choose [On] (□29).

z Once the setting is complete, [🔆] is displayed.

z To restore the original setting, repeat this process but choose [Off].

> ⚠ ● 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 (□42), this setting is set to [Off] and cannot be changed.

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## Changing Movie Image Quality

Adjust movie image quality (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 quality that will fit on a memory card, see "Recording Time per Memory Card" (📖206).



z Press the [⚙] button, choose the movie quality menu item, and then choose the desired option (📖28).

z The option you configured is now displayed.

### For NTSC Video

| Image Quality | Number of Recording Pixels | Frame Rate | Details |
|---|---|---|---|
| ᴱ𝐅𝐇𝐃 59.94P* | 1920 x 1080 | 59.94 fps | For shooting in Full HD. [ᴱ𝐅𝐇𝐃 59.94P] enables movies with smoother motion. |
| ᴱ𝐅𝐇𝐃 29.97P | 1920 x 1080 | 29.97 fps | |
| ᴱ𝐅𝐇𝐃 23.98P | 1920 x 1080 | 23.98 fps | |
| ᴱ𝐇𝐃 29.97P | 1280 x 720 | 29.97 fps | For shooting in HD. |
| ᴱ𝐕𝐆𝐀 29.97P | 640 x 480 | 29.97 fps | For shooting in standard definition. |

* Available in [🎥] or [🎥] mode.

### For PAL Video

| Image Quality | Number of Recording Pixels | Frame Rate | Details |
|---|---|---|---|
| ᴱ𝐅𝐇𝐃 50.00P* | 1920 x 1080 | 50.00 fps | For shooting in Full HD. |
| ᴱ𝐅𝐇𝐃 25.00P | 1920 x 1080 | 25.00 fps | |
| ᴱ𝐇𝐃 25.00P | 1280 x 720 | 25.00 fps | For shooting in HD. |
| ᴱ𝐕𝐆𝐀 25.00P | 640 x 480 | 25.00 fps | For shooting in standard definition. |

* Available in [🎥] or [🎥] mode.

⚠ • After repeated recording in [ᴱ𝐅𝐇𝐃 59.94P] or [ᴱ𝐅𝐇𝐃 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 [ᴱ𝐅𝐇𝐃 29.97P] or [ᴱ𝐅𝐇𝐃 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 [ᴱ𝐕𝐆𝐀 29.97P] and [ᴱ𝐕𝐆𝐀 25.00P] modes and on the top and bottom in [ᴱ𝐅𝐇𝐃 59.94P], [ᴱ𝐅𝐇𝐃 29.97P], [ᴱ𝐅𝐇𝐃 23.98P], [ᴱ𝐇𝐃 29.97P], [ᴱ𝐅𝐇𝐃 50.00P], [ᴱ𝐅𝐇𝐃 25.00P], and [ᴱ𝐇𝐃 25.00P] modes) indicate image areas not recorded.
• You can also configure this setting by choosing MENU (📖29) ► [📷8] tab ► [Movie Quality].

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## Helpful Shooting Features

### Using the Electronic Level

► Still Images    ► Movies

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

**1    Display the electronic level.**

z Press the [INFO.] button to display the electronic level.

**2    Level the camera as needed.**

z 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 [■1] 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 (□161).
- Not available in [🎬] mode.

---

## Magnifying the Area in Focus

► Still Images    ► Movies

You can check the focus by pressing the shutter button halfway, which will enlarge the portion of the image in focus in the AF frame.

**1    Configure the setting.**

z Press the [MENU] button, choose [AF-Point Zoom] on the [■3] tab, and then choose [On] (□29).

**2    Check the focus.**

z Press the shutter button halfway. The face detected as the main subject is now magnified.

z 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 (□39)
- Not available in [🎬] mode.

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