Canon

PowerShot G7X Mark III

Advanced User Guide





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CEL-SX7MA210

Preliminary Notes and Legal Information

- Take and review some test shots initially to make sure the images were recorded correctly. Please note that Canon Inc., its subsidiaries and affiliates, and its distributors are not liable for any consequential damages arising from any malfunction of a camera or accessory, including memory cards, that result in the failure of an image to be recorded or to be recorded in a way that is machine readable.
- The user's unauthorized photographing or recording (video and/or sound) of people or copyrighted materials may invade the privacy of such people and/or may violate others' legal rights, including copyright and other intellectual property rights. Note that restrictions may apply even when such photographing or recording is intended solely for personal use.
- For information on camera warranty or Customer Support, please refer to the warranty information provided with your camera User Manual Kit.
- Although the screen 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.

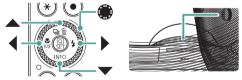


Introduction

- To jump to the beginning of a chapter, click the chapter title along the right side of the top page.
- For basic page navigation, click the icons at the bottom of each page.
 - Go to the top page
 - : Return to the previous page
 - Go back a page
 - Co forward a page
- Instructions in this guide apply to the camera under default settings.
- Tabs such as AUTO identify which modes are used in the shooting instructions. Some features are also available in other modes.
- Important information, or tips for expert use

Text Conventions

- 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 controls are represented by icons.



- On-screen icons and text are indicated in brackets.
- Numbers in some figures and illustrations correspond to numbers in the steps.
- Image and the second sec
- For convenience, all supported memory cards are simply referred to as the "memory card".



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Common Camera Operations

🗖 Shoot

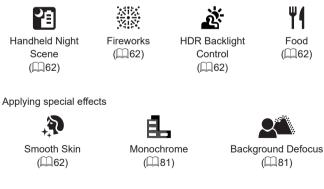
- Use camera-determined settings (Auto Mode, Hybrid Auto Mode)
 - 📖 28, 📖 61
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 - 📖66
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Shooting people well



Portraits (CC62)

Matching specific scenes







Fish-Eye Effect

(281)



Like Watercolor Paintings (A)81)





Toy Camera Effect (📖 81) Miniature Effect (
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- 📖 28, 🛄 62, 🛄 149

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 - 📖 108
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- Send images to a computer
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Safety Instructions

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

WARNING Denotes the risk of serious injury or death.

Keep the product out of the reach of young children.

A strap wrapped around a person's neck may result in strangulation.

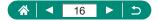
- Use only power sources specified in this instruction manual for use with the product.
- Do not disassemble or modify the product.
- Do not expose the product to strong shocks or vibration.
- Do not touch any exposed internal parts.
- Stop using the product in any case of unusual circumstances such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

 Do not use the product where flammable gases may be present. This may cause electric shock, explosion or fire.

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

This may cause electric shock, explosion or fire.

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



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

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

 Follow any indications to turn off the product in places where its use is forbidden. Not doing so may cause other equipment to malfunction due to the effect of electromagnetic waves and even result in accidents.

CAUTION Denotes the risk of injury.

Do not fire the flash near the eyes.

It may hurt the eyes.

 Strap is intended for use on the body only. Hanging the strap with any product attached on a hook or other object may damage the product. Also, do not shake the product or expose the product to strong impacts.

Do not apply strong pressure on the lens or allow an object to hit it.

This may cause injury or damage to the product.

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

This may cause burns or malfunction of the flash.

Do not leave the product in places exposed to extremely high or low temperatures.
 The product may become extremely hot/cold and cause burns or injury when touched.

 If any abnormal skin reaction or irritation occurs during or following the use of this product, refrain from further use and get medical advice/attention.



CAUTION Denotes the possibility of property damage.

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

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

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

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

 Remove and store the battery pack/batteries when you are not using the product. Any battery leakage that occurs may cause product damage.

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

Contacting other metal materials may lead to fire or explosions.

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

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

Do not leave any dedicated battery packs near pets.

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

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

This may cause the product to malfunction.

 When card reading/writing is in progress, do not turn the camera off, open the memory card/battery cover, or shake or hit the camera.

Doing so may corrupt images or damage the camera or memory card.

 Do not force the memory card into the camera facing the wrong way. This could damage the camera.



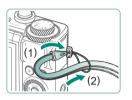
Camera Basics

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

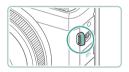


Getting Ready

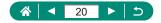
Attaching the Strap



Attach the included strap to the strap mount.



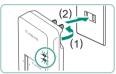
• The strap can also be attached to the left side of the camera.

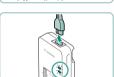


Charging the Battery Pack



Insert the battery pack in the charger.





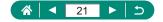
2 Charge the battery pack.

- Lamp colors
 - Charging: Orange
 - Fully charged: Green



3 Remove the battery pack.

- To protect the battery pack and keep it in optimal condition, do not charge it continuously for more than 24 hours.
- 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.
- 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.



Preparing a Memory Card

Use the following memory cards (sold separately), in any 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.



Inserting/Removing the Battery Pack and Memory Card



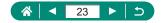
Open the cover.



2 Insert the battery pack.

To remove:







3 Insert the memory card.

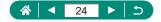


To remove:

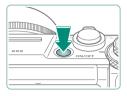


4 Close the cover.

- 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.
- Before using a new memory card or a card formatted in another device, you should format the card with this camera.
- Recording is not possible on memory cards with a write-protect switch when the switch is in the locked position. Slide the switch to unlock it.
- If [Change the battery pack] is displayed, change the battery pack after the camera turns off automatically.



Setting the Date, Time, Time Zone, and Language



Turn the camera on.



Zone/Time difference

Time difference

Time zone

São Paulo

Azores

London Paris

Fernando de Noronha

Zone London

02/02/2019 10:00:00

ОК

02/02/2019 10:00:00

+ 00:00

Cancel

-03:00

-02:00

-01:00

+01:00

2 Set the time zone.

◆ buttons or
 ◆ dial to choose a time zone →
 ◆
 ● button

Button

▲/▼ buttons or ● dial to choose a time zone → ④ button → ◆ buttons or ● dial to choose [OK] → ④ button



Date/Time/Zone			
(02/02/2019)			
02.02.2019 10:00:00			
mm/dd/yy			
🕷 London			
A OK Cancel			

Date/Time/Zone			
(02/02/2019)			
02.02.2019 10:00:00			
mm/dd/yy			
🕷 London			

D D	((†))	Ý	*
1 2 3 4 5			SET UP2
Eco mode	(Off	
Power saving			
Disp. brightness		*	🔅
Night display	(Off	
Date/Time/Zone	(02/02/19	10:00
Language		Inglish	
Lens retraction		1 min.	

English	Magyar 🔺
Deutsch	Tiếng Việt
Français	हिन्दी
Nederlands	Română
Dansk	Türkçe
Português	العربية
Suomi	ภาษาไทย
Italiano	简体中文
	SET OK

- **3** Set the date and time.
 - ◆ buttons or dial to choose the date or time → ● button → ▲/▼ buttons or ● dial to adjust → ● button

4 Set the display language.

- ▲/▼ buttons to choose [Language] →
 (P) button
- ▲/▼/∜ buttons to choose a language
 → (button

- Set the current date, time, and zone correctly if the [Date/Time/Zone] 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.
- To set daylight saving time (1 hour ahead), set [済] to [♀] on the [Date/ Time/Zone] screen.
- If the date/time/zone settings have been cleared, set them again correctly.



Holding the Camera



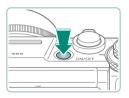
- Place the strap around your wrist.
- When shooting, keep your arms close to your body and hold the camera securely to prevent it from moving. If you have raised the flash, do not rest your fingers on it.



Trying the Camera Out

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

Shooting



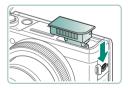
Turn the camera on.

 To turn the camera off, press the ON/OFF button again.



2 Enter AUTO mode.





- Zoom in or out, as needed.
- Move the zoom lever as you watch the screen.

When using the flash:







4 Focus (press halfway).

- The camera beeps after focusing.
- An AF point is displayed around positions in focus.



5 Shoot (press fully).



When recording movies:

- [●REC] is displayed during recording.
- To stop movie recording, press the movie shooting button again.





Viewing

Press the 🕨 button.



2 Choose images.



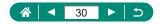
Movies are labeled with [SET 2].





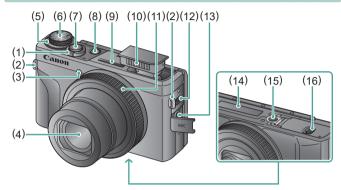
Playing movies:

- button (twice)
- Press the ▲/▼ buttons to adjust the volume.



Part Names





(1) Zoom lever Shooting: **W** (wide angle) / **T** (telephoto)

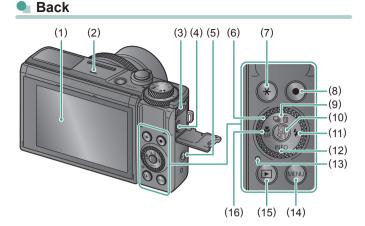
Playback: 🚺 (index) / Q (magnify)

- (2) Strap mount
- (3) Lamp
- (4) Lens
- (5) Exposure compensation dial

 Dial/Ring Assign Position
- (6) Mode dial
- (7) Shutter button

- (8) ON/OFF button
- (9) Microphone (stereo)
- (10) Flash
- (11) Control ring (() ring)
- (12) 🕻 (Flash up) lever
- (13) External microphone IN terminal
- (14) Serial number
- (15) Tripod socket
- (16) Memory card/battery cover





- Screen Opens upward about 180° and downward about 45°.
- (2) Speaker
- (3) DIGITAL terminal
- (4) HDMI[™] terminal
- (5) ^{((•))} (Wi-Fi) button
- (6) Control dial (dial)
- (7) 🗙 (AE lock) button
- (8) Movie shooting button Movies can also be recorded in modes other than Movie mode.

- (9) □ (Drive mode) / (in) (Single-image erase) / ▲ Up button
- (10) (a) (Quick Control) button Displays the Quick Control screen. Also used to confirm selected settings.
- (11) 💈 (Flash) / 🕨 Right button
- (12) INFO / Town button
- (13) Indicator
- (14) MENU button

Used to display menu screens.

- (15) (Playback) button
- (16) (Macro) / MF (Manual focus) /
 ↓ Left button



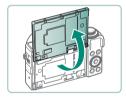
Adjusting the Screen Angle

Tilting the Screen Downward



- Pull the top of the screen downward toward you.
- The screen opens to about 45°.

Tilting the Screen Upward



- The screen lifts upward and opens to about 180°.
- View a mirror image of yourself when shooting with the screen rotated around toward the front.
- When finished, return the screen to the original position.
- When the camera is not in use, keep the screen closed.
- Do not force the screen open any wider, which may damage the camera.



Indicator Display

Indicator display varies depending on the camera status.



Color	Indicator Status	Camera Status
	On	 Recording stills to the memory card, or reading stills from the card
Crear	Slow blinking	 Display off
Green	Blinking	 Recording movies to the memory card, or reading movies from the card
		 Transmitting via Wi-Fi
Orange	On	 Charging via USB
	Blinking	 USB charging error



Setting a Shooting Mode

Use the mode dial to access each shooting mode.



- Tv Mode Tv Set the shutter speed before shooting (□91). Set with the (1) ring. The camera automatically adjusts the aperture value to suit your shutter speed.
- (2) P Mode P Shutter speed and aperture value are automatically adjusted to suit subject brightness. Set a variety of settings freely before shooting (Q90).
- (4) Hybrid Auto Mode T
 Automatically record a clip of the scene before each shot (µ61).
- (5) Special Scene Mode SCN Shoot with settings for specific scenes (^[]G2).

(6) Av Mode AV Set the aperture value before shooting (Q92). Set with the 1 ring. The camera automatically adjusts the shutter speed to suit your aperture value.

(7) M Mode **M**

Set the shutter speed and aperture value before shooting to obtain the desired exposure (\$\$_93\$). Turn the (\$\$ dial to set the shutter speed, and turn the (\$) ring to set the aperture value.

- (8) C Mode C Save commonly used shooting modes and your configured function settings for reuse (Q284).
- (9) Movie Mode [™], Record a variety of movies (□,87).
- (10) Creative Filters Mode Add a variety of effects to images when shooting (¹ ⁸).



Configuring Camera Features

Quick Control Screen





- (1) Setting items
- (2) Setting options





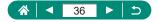
2 Choose a setting item.



3 Choose a setting option.



 Configure items labeled with a [MENU] icon by pressing the MENU button.

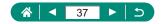




4 Complete the setting.

• You can also choose options by turning the 🌐 dial.

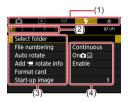
• You can also configure Quick Control features from the Menu screen.



Menu Screen



Press the MENU button.









2 Choose a tab.

- (1) Main tab
- (2) Sub-tab
- (3) Setting items
- (4) Setting options
- Use the zoom lever to choose a main tab.
- Use the *(*) buttons or *(*) ring to choose a sub-tab.





- **3** Choose a setting item.



4 Choose a setting option.



- **5** Complete the setting.
- 6 Return to the shooting screen.





Features Available on the Quick Control Screen

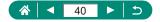


Press the () button on shooting or playback screens to access the Quick Control screen, where you can adjust settings. Choose a setting item on the right or left to display setting options for it on the bottom.

- (1) Setting items
- (2) Setting options

The following settings are available in ${f P}$ mode. Available setting items and options vary by shooting mode.

AF℃⊠	AF method	Choose an auto focus (AF) mode for the scene you are shooting.
ONE SHOT	AF operation	Choose [SERVO] to keep subjects in focus while you press the shutter button halfway.
۲	Metering mode	Choose how brightness is measured.
A L	Image quality	Choose the size (number of pixels) and compression (quality) of your shots.
EFHD 23.972	Movie rec. size	Choose the recording size and frame rate for movies.
AUTO	ND filter	Reduce light intensity to obtain suitable brightness.
AUTO	ISO speed	Choose the ISO speed.
AWB	White balance	Shoot with natural-looking colors under specific types of lighting.
≈ ∎≈A	Picture Style	Choose color settings that express scenes or subjects well.
	Auto Lighting Choose the level of auto correction for Optimizer and contrast.	
COFF	Creative filters	Add a variety of effects to images when shooting.



Menu Settings

Use menu screens to configure a variety of camera features. To access menu screens, press the MFNU button. Setting items are organized into five main groups and multiple tabs for each group.

You can configure the following setting items on menu screens. Available setting items vary by shooting mode.

👞 🗖 Shooting settings

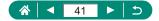
- Shooting mode
- Image quality
- Still img aspect ratio
- Image review
- Flash settings
- Drive mode .
- RAW burst mode
- Date stamp 🕅
- Expo.comp./AEB
- ISO speed settings .
- ISO speed settings
- Auto Lighting Optimizer
- Highlight tone priority
- ND filter
- . Metering mode
- Metering timer
- Expo. simulation
- White balance
- Custom White Balance

- WR Shift/Bkt
- HDMI info disp Picture Style

•

- High ISO speed NR
- Retain Creative Assist data
- Touch Shutter .
- Shutter mode
- AF operation
- AF method .
- Continuous AF
- AF-assist beam firing
- Focus bracketing
- AF+MF
- MF peaking settings
- . Safety MF
- . MF-point zoom
- IS settings
- Auto level .
- Digital zoom .

- Digest type •
- Movie rec quality •
- Movie self-timer
- Sound recording
- Movie Servo AF
- Image: Auto slow shutter
- . Star time-lapse movie setting
- Star emphasis
- Star portrait settings .
- Color adjustment
- Video snapshot
- Time-lapse movie
- Remote control



Playback settings

- Protect images
- Rotate stills
- Change mov rotate info
- Erase images .
- Print order
- Photobook Set-up
- Creative filters

- RAW image processing
- . Creative Assist
- Quick Control RAW processing
- Red-eve correction .
- Create album .
- Cropping
- Resize

- Rating
- . Slide show
- Set image search conditions
- Image jump w/ •
- Plavback information • display
- View from last seen .

((1)) Wireless settings

- Wi-Fi/Bluetooth connection
- Wi-Fi settings

Function settings

- Select folder
- File numbering
- Auto rotate
- Add The rotate info
- Format card
- Start-up image
- Eco mode
- Power saving
- Disp. brightness
- Night display
- Date/Time/Zone

👞 ★ My Menu

Add Mv Menu tab

- Language
- Video system
- Touch control
- Beep
- Volume
- HDMI resolution
- HDMI HDR output •
- Shooting info. disp.
- Reverse display •
- Units

- Feature guide
- Custom Functions (C.Fn)
- Custom shooting mode (C mode)
- Reset camera
- Copyright information
- Manual/software URL •
- Certification Logo Display
- Firmware .
- Delete all My Menu tabs
- Delete all items
- Menu display



- - Bluetooth settings
 - Nickname

- - - GPS settings
 - Clear wireless settings
- -
- Lens retraction

Shooting Mode Screen

(1) (2)(3) (4) (5)



- (1) Shooting mode/Scene icon
- (2) Recordable shots
- (3) Maximum continuous shots
- (4) Movie recording time available
- (5) Battery level



Frames on the Shooting Screen

Frames for focusing (AF points) are displayed on the shooting screen.

White frame	Displayed around the subject or person's face detected as the main subject.
Green frame	Displayed after the camera focuses when you press the shutter button halfway.
Blue frame	Displayed as the camera continues to focus on moving subjects. Displayed as long as you press the shutter button halfway.
Yellow frame	Displayed if the camera cannot focus when you press the shutter button halfway.

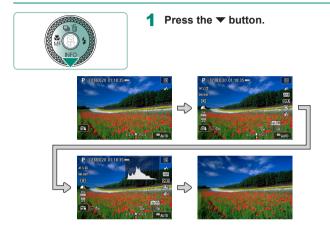
0

Try shooting in \mathbf{P} mode if no frames are displayed, if frames are not displayed around desired subjects, or if frames are displayed in the background or similar areas.



Shooting Display Options

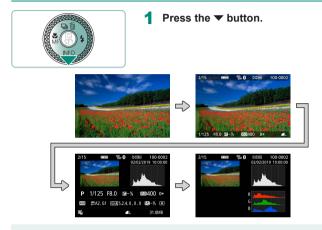
You can switch shooting screen display to view other information.





Playback Display Options

You can switch playback screen display to view other information.



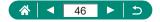
0

 Overexposed highlights blink over the information display image when you access screens showing detailed information.

 A graph called a brightness histogram on the top of screens with detailed information shows the distribution of brightness in images. The horizontal axis represents the degree of brightness, and the vertical axis, how much of the image is at each level of brightness. Viewing this histogram enables you to check exposure.

Switching Histograms

When switched to RGB display, an RGB histogram is displayed that shows the red, green, and blue distribution in images. The horizontal axis represents R, G, or B brightness, and the vertical axis, how much of the image is at that level of brightness. Viewing this histogram enables you to check image color characteristics.



Touch Operation

Choosing Subjects

You can choose subjects by touching a person's face or other things displayed on the screen.



Choose a subject.



2 Shoot.

 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.



Quick Control Screen

AWB

S: A

E)

0



AF C E

ONE SHOT

8

EID.

AF method

CE.

Accessing the setting screen

Touch [Q].

Setting up the camera

Touch a setting item → a setting option



Switching screens

 Configure items labeled with a [MENU] icon by touching [MENU].



Returning to the previous screen

Touch [¹].



Adjusting amounts on bars

Touch or drag the bar.



1	•		¥		((†))		Ý		\star
1									SET UP1
S	elect	fol	der						
File numbering			Co	ntinud	ous				
Auto rotate			On	ÓШ					
Add 🖳 rotate info			Ena	able					
F	orma	at ca	ard						
S	tart-	up i	mag	e					

On

High

Red

MENU ᠫ

6

1 5

Cancel

MF peaking settings

Playback information display

OK

Peaking

Level

Color

Menu Screen

Setting up the camera

 Touch a main tab → sub-tab → setting item → option

Returning to the previous screen

● Touch [MENU].

Adding/removing check marks

• Touch a check box.

Format card Format card All data will be lost! 160 KB used 29.7 GB Cancel OK

Instead of pressing the X button

■ Touch [★].





Instead of pressir	ig the MENU button
Touch [MENU].	

Image quality		
	▲L 20M 5472×36	548 [929]
RAW		0
	AW	
JPEG		\bullet
- (dM dS1 dS	1 S2
	SE	T OK

Instead of pressing the button Touch [SET].

☆ 50 ► 5





Viewing images individually

- Next image: Drag left
- Previous image: Drag right



Playing movies

Play: Touch [b]



Operations during movies

- Stop: Touch the screen
- Resume: Touch []
- Adjust volume: Touch [])



Switching to index display





Displaying fewer images



Magnifying images

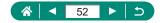
Quickly touch twice.





Reducing magnified images

- Restore original size: Touch [1], or quickly touch the screen twice
- The movie playback panel can also be displayed by touching the screen during movie playback.
- During index display, drag up or down to scroll through images.
- Drag to move the display position during magnified display.



On-Screen Keyboard





Entering characters

• Touch the characters to enter them.

Moving the cursor

● [**←**]/[**→**] or () ring

Switching input modes

- [分]: Switch to uppercase
- [1]: Switch to numbers or symbols

Deleting characters



Entering line breaks

[ب] •

Returning to the previous screen

• [[menu]]



Shooting

Easily shoot in simple modes, or take more sophisticated shots using a variety of features.



Shooting with Camera-Determined Settings (Auto Mode/Hybrid Auto Mode)

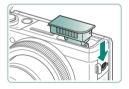
Use Auto mode for fully automatic selection of the optimal settings for the scene, based on the subject and shooting conditions determined by the camera.



Enter AUTO mode.



- **2** Zoom in or out, as needed.
 - Move the zoom lever as you watch the screen.



When using the flash:







3 Focus (press halfway).

- The camera beeps after focusing.
- An AF point is displayed around positions in focus



4 Shoot (press fully).



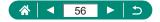
When recording movies:

- [OREC] is displayed during recording.
- To stop movie recording, press the movie shooting button again.



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.
- To assist in focusing, the lamp may be activated when you press the shutter button halfway in low-light conditions.



Movies

- The black bars on the top and bottom of the screen are not recorded.
- When you recompose shots, the focus, brightness, and colors will be automatically adjusted.
- Recording stops automatically when the memory card becomes full or a single recording reaches the maximum length.
- The maximum recording time per movie is 29 min. 59 sec.
- Although the camera may become warm when recording movies repeatedly over an extended period, this does not indicate a problem.
- Keep your fingers away from the microphone while recording movies. Blocking the microphone may prevent audio from being recorded or may cause the recording to sound muffled.
- Audio is recorded by the built-in microphone in stereo.
- Avoid touching camera controls other than the movie shooting button or screen when recording movies, because sounds made by the camera will be recorded. To adjust settings or perform other operations during recording, use the touch-screen panel if possible.
- Sounds from Wi-Fi operations may be captured with built-in or external microphones. During sound recording, using the wireless communication function is not recommended.
- Once movie recording begins, the image display area changes and subjects are enlarged to allow for correction of significant camera shake. To record subjects at the same size shown before recording, adjust the image stabilization setting.
- During movie recording, lens operating noises from auto focusing may also be recorded.
- Individual movies that exceed 4 GB may be divided into multiple files. Automatic playback of divided movie files one after another is not supported. Play each movie separately.

Scene Icons

- In AUTO/AT 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.
- Try shooting in P mode if the scene icon does not match actual shooting conditions, or if it is not possible to shoot with your expected effect, color, or brightness.

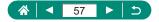


Image Stabilization Icons

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

((山))	Image stabilization for still images (Normal)
((→))	Image stabilization for still images when panning (Panning)*
((Y)) ((Y))	Image stabilization for angular camera shake and shift-shake in macro shots (Hybrid IS). For movies, [((())] is displayed and [(())] image stabilization is also applied.
(4 B)	Image stabilization for movies, reducing strong camera shake, as when recording while walking (Dynamic)
(∰)	Image stabilization for slow camera shake, as when recording movies at telephoto (Powered)
((유)) ((유))	No image stabilization, because the camera is mounted on a tripod or held still by other means. However, during movie recording, [((A))] 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.

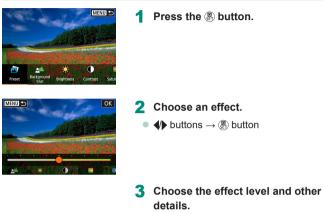


Shooting with Effects Applied (Creative Assist)

Choose your preferred effects when shooting.

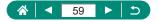


Ó



- 4 buttons $\rightarrow \oplus$ button
- Reset: House button

🔊 Preset	Choose one of the preset effects.
a Background blur	Adjust background blur. Choose higher values to make backgrounds sharper. Choose lower values to make them blurrier. [AUTO] adjusts background blurring to match the brightness.
🗱 Brightness	Adjust image brightness.
Contrast	Adjust contrast.
Saturation	Adjust the vividness of colors.
Color tone 1	Adjust blue/amber color tone.

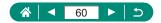


Color tone 2	Adjust magenta/green color tone.
n Monochrome	Adjust the toning effect when shooting in monochrome. Set to [Off] to shoot in color.

• [Background blur] is not available when the flash is used.

Ω

- These settings are reset when you switch modes or turn the camera off. To save the settings, set [] [Retain Creative Assist data] to [Enable].
- You can save up to three current effects in [Preset] by touching [Register].



Shooting in Hybrid Auto Mode

Also record 2 - 4 second clips of scenes before each shot automatically, just by shooting stills. Each clip, which ends with the still image and a shutter sound, forms an individual chapter. The camera creates a short digest movie of the day by combining the clips.





2 Focus and shoot.

- For more impressive digest movies, aim the camera at subjects about four seconds before shooting still images.
- 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 and mode, or operating the camera in other ways.
- Any sounds and vibrations from your camera or lens operations will be recorded in digest movies.
- Digest movie image quality is (FFD 2000) for NTSC or (FFD 2000) for PAL. This varies depending on the video system setting.
- Sounds are not played when you press the shutter button halfway or trigger the self-timer.
- Digest movies are saved as separate movie files in the following cases even if they were recorded on the same day in an inde.
 - The digest movie recording time reaches approx. 29 minutes and 59 seconds. (May also be saved as separate files if the size exceeds approx. 4 GB.)
 - The digest movie is protected.
 - Daylight saving time, video system, or time zone settings are changed.
- Recorded shutter sounds cannot be modified or erased.



Shooting Specific Scenes (Special Scene Mode)

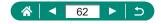
Choose a mode matching the shooting scene, and the camera will automatically configure the settings for optimal shots. Try taking some test shots first to make sure you obtain the desired results.



Enter SCN mode.



2 (a) button \rightarrow [**\mathfrak{P}**] \rightarrow choose an option





Self Portrait

For self-portraits, customizable image processing includes skin smoothing as well as brightness and background adjustment to make yourself stand out.



Portrait



Process images to make skin look smoother.

Capture subjects that stand out against a blurred background, with smooth skin tone and

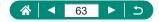
🔊 Smooth skin



Areas other than people's skin may be modified, depending on the shooting conditions.

soft-looking hair.

Setting details in [^(A)] mode are not applied in [^(A)] mode.



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Adjust color tones to make food look fresh and vibrant.

Food

0

These color tones may not look suitable when applied to people. In flash photography, [Color tone] changes to the standard setting.



Handheld Night Scene

Take beautiful shots of evening scenes or portraits with evening scenery in the background.

- Image noise is reduced by combining consecutive shots into a single image.
 - Hold the camera steady as it shoots continuously.
 - There will be a delay before you can shoot again, as the camera processes and combines the images.
 - Shots may look grainy because the ISO speed is increased to suit the shooting conditions.
 - Excessive motion blur or certain shooting conditions may prevent you from obtaining the desired results.
 - Try to keep the camera still when using the flash, because the shutter speed may be slower.





Three consecutive images are captured at different brightness levels each time you shoot, which are automatically combined to create a single image. This mode can reduce the loss of detail in highlights and shadows that tends to occur in shots with mixed bright and dark image areas

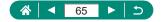
🕂 HDR Backlight Control 🛛 a

- Hold the camera steady as it shoots continuously.
 - 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. In this case, also disable image stabilization.
 - 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.



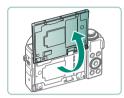
Vivid shots of fireworks.

- 🛞 Fireworks
- 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.
 - Although no frames are displayed when you press the shutter button halfway, optimal focus is still determined.



Shooting Yourself under Optimal Settings (Self Portrait Mode)

Choose [🛺].



2 Open the screen.



- **3** Configure the settings.
 - On the screen, touch the icon of the item to configure.

- Choose an option.
- To return to the previous screen, touch [_].
- 4 Shoot.
- Areas other than people's skin may be modified, depending on the shooting conditions.
- [Smooth skin effect] settings specified in [in] mode are not applied in [in] mode.
- Set [Background blur] to [AUTO] if you have set the flash mode to [\$] for flash photography (because the flash will not fire in modes other than [AUTO]).



🖢 Shooting Panoramas (Panorama Mode)

Create a panorama combining shots captured continuously as you move the camera one direction while holding the shutter button all the way down.





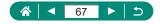
2 Choose a shooting direction.

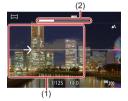
- Use the button to choose the direction you will shoot.
- An arrow is displayed showing the direction to move the camera.

3 Press the shutter button halfway.

 Keeping the shutter button halfway down, focus on the subject.

- Holding the shutter button all the way down, move the camera at a constant speed in the direction of the arrow.
- The area displayed clearly (1) is captured.
- A shooting progress indicator (2) is displayed.
- Shooting stops when you release the shutter button, or when the progress indicator is completely white.





- 0
- In some scenes, expected images may not be saved, and images may not look as expected.
- Shooting may stop midway if you move the camera too slowly or quickly. However, the panorama created up to that point will still be saved.
- Images created from shots in \(\box)\) mode are large. Use a computer or other device to reduce panorama images if you will print them by inserting a memory card in a Canon printer. If panoramas are not compatible with certain software or Web services, try resizing them on a computer.
- The following subjects and scenes may not be stitched correctly.
 - Subjects that are moving
 - Subjects that are nearby
 - Scenes where the contrast varies greatly
 - Scenes with long stretches of the same color or pattern, such as the sea or sky



Capturing Subjects Against Flowing Backgrounds (Panning Mode)

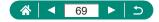


By panning, you can blur the background to convey a sense of speed.



1 Choose [🐺].

- Before shooting, press the shutter button halfway as you move the camera so that it follows the subject.
- Keep the moving subject in the frame displayed, and press the shutter button all the way down.
- Even after you have pressed the shutter button fully, continue moving the camera to follow the subject.
- For best results, hold the camera securely in both hands, with your elbows close to your body, and rotate your whole body to follow the subject.
- This feature is more effective for subjects moving horizontally, such as cars or trains.



Shooting People against Starry Skies (Star Portrait Mode)

Capture beautiful shots of people against starry skies. After initially firing the flash to capture the person, the camera shoots twice without flash. These three images are automatically combined to create a single image.

		5
AF 12 00		₫ ₩8
510 83365		
	Star portrait	
<u>«</u> (M 🗳 🖻 🖉 💑) [»

Choose [].

 Zoom is set to maximum wide angle and cannot be adjusted.

Adjusting colors

- (\mathbb{P}) button $\rightarrow [\mathbb{P}_{+/-}^{\mathbb{W}B}] \rightarrow (\mathbb{P})$ buttons

2 Raise the flash.

Move the \$ lever to raise the flash.

3 Secure the camera.

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



- Press the shutter button. The flash fires as the camera takes the first shot.
- The second and third shots are now taken, without firing the flash.







5 Have the person stay still until the lamp blinks.

- The person you are shooting should stay still until the lamp blinks after the third shot, which may take up to about two seconds.
- All the shots are combined to create a single image.



Ó



- 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 stays still.
- B: blue; A: amber; M: magenta; G: green
- Skin tones remain the same when you adjust colors.
- To adjust subject brightness, try changing the flash exposure compensation.
- To adjust background brightness, try changing the exposure compensation. Note that images may not look as expected under some shooting conditions, and the person should stay still in steps 4 – 5, because shooting takes longer (up to about 15 seconds).
- To capture more stars and brighter starlight, choose [Star portrait settings] → [Star visibility] → [Prominent]. Note that images may not look as expected under some shooting conditions, and the person should stay still in steps 4 5, because shooting takes longer (up to about 30 seconds).
- To make stars brighter, choose S [Star emphasis] → [Sharp]. To emphasize the bright stars in a starry sky, set to [Soft]. This setting can produce eye-catching shots by enlarging bright stars while de-emphasizing dimmer stars. To disable starlight processing, select [Off]. Note that in bright scenes, images are not processed to emphasize stars, even when set to [Sharp] or [Soft].



Shooting Night Scenes under Starry Skies (Star Nightscape Mode)

Capture impressive shots of starry skies above night scenes.



Choose [🕅].

 Zoom is set to maximum wide angle and cannot be adjusted.

Adjusting colors

- (a) button $\rightarrow [\underline{\mathbb{W}}_{+/-}^{\mathbb{W}}] \rightarrow 4/$ buttons

2 Secure the camera.

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

Adjusting the focus

- \blacktriangleleft button $\rightarrow [MF] \rightarrow \textcircled{P}$ button
- Press the MENU button, and then tilt the camera so that the stars to capture are inside the frame displayed.
- Adjustment may take some time, so do not move the camera until a message indicates that adjustment is complete.



3 Shoot.



Ó

- There will be a delay before you can shoot again, as the camera processes the images.
- B: blue; A: amber; M: magenta; G: green
- Try setting **Y** [Night display] to [On] in this mode.
- To make stars brighter, choose [Star emphasis] → [Sharp]. To emphasize the bright stars in a starry sky, set to [Soft]. This setting can produce eye-catching shots by enlarging bright stars while de-emphasizing dimmer stars. To disable starlight processing, select [Off]. Note that in bright scenes, images are not processed to emphasize stars, even when set to [Sharp] or [Soft].
- Try switching to manual focus mode to more accurately specify the focal position before shooting.



🗣 Shooting Star Trails (Star Trails Mode)

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 [🕅].

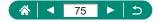
 Zoom is set to maximum wide angle and cannot be adjusted.

Adjusting colors

- 2 Specify the duration of the shooting session.
 - 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.

Adjusting the focus

- \blacktriangleleft button $\rightarrow [MF] \rightarrow \textcircled{P}$ button
- Press the MENU button, and then tilt the camera so that the stars to capture are inside the frame displayed.
- Adjustment may take some time, so do not move the camera until a message indicates that adjustment is complete.



Ô



4 Shoot.

- 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.
- B: blue; A: amber; M: magenta; G: green
- Try switching to manual focus mode to more accurately specify the focal position before shooting.



Recording Movies of Star Movement (Star Time-Lapse Movie Mode)

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 time, and requires many shots. Check the battery level and memory card space in advance.



Star time-lapse mo	vie setting
Save source imgs	Disable
Effect	*
Interval	30 sec.
Movie rec. size	¹ FHD 14.99F
Shooting time	60 min.
Auto exposure	Fixed 1st frame

Choose [🗖 🔤].

 Zoom is set to maximum wide angle and cannot be adjusted.

Adjusting colors

- (\mathbb{P}) button $\rightarrow [\mathbb{P}_{+/-}^{\mathbb{W}\mathbb{B}}] \rightarrow (\mathbb{P})$ buttons

2 Configure movie settings.

▶ button → choose an item → choose an option

3 Secure the camera.

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

Adjusting the focus

- \blacktriangleleft button $\rightarrow [MF] \rightarrow \textcircled{P}$ button
- Press the MENU button, and then tilt the camera so that the stars to capture are inside the frame displayed.



 Adjustment may take some time, so do not move the camera until a message indicates that adjustment is complete.

4 Check the brightness.

- Press the shutter button all the way down to capture a single image.
- Switch to playback and check image brightness.
- To adjust brightness, on the shooting screen, turn the exposure compensation dial to change the exposure level, and then shoot again.

5 Start recording.

- Movie shooting button → press the shutter button all the way down
- Do not disturb the camera while recording.
- No image is shown on the camera during recording.
- To cancel recording, press the shutter button or the movie shooting button again. Note that cancellation may take up to about 30 seconds.

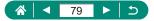


Items	Options	Details
Save source imgs	Disable/Enable	You can choose to save each shot collected before the movie is created. Note that when [Enable] is selected, [Effect] is not available.
Effect	1 5 6 6 6	Choose movie effects, such as star trails.
Interval	15 sec./30 sec./1 min.	Choose the interval between each shot.
Movie rec. size	IFHD (2009), IFHD (2007), Lak (2009), Lak (2007) (NTSC) IFHD (2007), IFHD (2007), Lak (2007), Lak (2007), Lak (2007), Lak (2007), (PAL)	Choose the movie recording size.
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].
Auto exposure	Fixed 1st frame/ Each frame	Choose whether exposure is determined by the first shot or updated for each shot.
Remote control	Disable/Enable	Choose whether to shoot with a wireless remote control.
Beep as img taken	Enable/Disable	Choose whether the camera beeps for each shot.



You can also configure this setting by choosing
 [Star time-lapse movie setting].

- Using USB Power Adapter PD-E1 (sold separately) enables you to shoot without worrying about the remaining battery level.
- Even if you specify [Unlimited] in [Shooting time], recording stops after about 8 hours, at most.



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

Shot Interval	Movie Rec	ording Size	Playback Time (Approx.)	
	NTSC	PAL	NTSC	PAL
15 sec.	^I FHD 14.99P, I-4k 14.99P	^I FHD (12.50P), I ^{III} 4K (12.50P)	16 sec.	19.2 sec.
15 sec.	^I FHD 29.97P, I-4k 29.97P	^I FHD 25.00P, I-4k 25.00P	8 sec.	9.6 sec.
30 sec.	^I FHD 14.99P, I-4K 14.99P	^I FHD 12.50P, I-4k 12.50P	8 sec.	9.6 sec.
30 sec.	^I FHD 29.97P, I-4k 29.97P	^E FHD 25.00P, E4k 25.00P	4 sec.	4.8 sec.
1 min.	^I FHD 14.99P, I-4k 14.99P	^I FHD (12.50P), I-4k (12.50P)	4 sec.	4.8 sec.
1 min.	^I FHD 29.97P, I-4k 29.97P	^I FHD 25.00P, I-4k 25.00P	2 sec.	2.4 sec.

0

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.

- There will be a delay before you can shoot again, as the camera processes the images.
- A shooting interval of [1 min.] is not available with these effects: [3], [3], [3], [3], [3], or [3].
- B: blue; A: amber; M: magenta; G: green
- Sound is not recorded.
- Try setting **Y** [Night display] to [On] in this mode.
- Try switching to manual focus mode to more accurately specify the focal position before shooting.



Shooting with Image Effects (Creative Filters Mode)

Add a variety of effects to images when shooting. Try taking some test shots first to make sure you obtain the desired results.







2 B button \rightarrow [] \rightarrow choose an option



- **3** Choose an effect level.
 - Turn the) ring to set the level.







Take black and white shots with a rough, gritty feeling.





You can shoot subjects so that they stand out from the background.

- Background blur
 - Excessive motion blur or certain shooting conditions may prevent you from obtaining the desired results.
 - For the best results with background defocusing, try shooting close to the subject, and ensure ample distance between the subject and background.
 - There may be a delay after shooting before you can shoot again.



Soft focus

Shoot with a simulated soft focus filter effect, for a gentle ambiance.





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

Fish-eye effect



Soften colors, for photos resembling watercolor paintings.



Shoot images that resemble shots from a toy camera, with vignetting and different color overall.

Toy camera effect



Aniniature effect

Create the effect of a miniature model, by blurring image areas outside a selected area.





Add an effect to make shots resemble lowcontrast paintings with flat tones.

Add an effect to make shots resemble vivid

illustrations.

WHDR HDR art standard



HDR art vivid

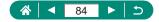


Add an effect to make shots resemble oil paintings, with bold edges.



SHDR HDR art embossed

Add an effect to make shots resemble faded old photos, with bold edges and dark ambiance.

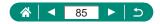


HDR Art Standard, HDR Art Vivid, HDR Art Bold, and HDR Art Embossed

- This mode can reduce the washed-out highlights and loss of detail in shadows that tend to occur in high-contrast shots.
- When you press the shutter button all the way down, the camera will take three shots and combine them. Hold the camera steady as you shoot.
- 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. In this case, also disable image stabilization.
- There will be a delay before you can shoot again, as the camera processes and combines the images.

Art Bold Effect

[X] is not available in Q mode (but available in P mode).



Shots Resembling Miniature Models (Miniature Effect)



1 Choose [🚚].

- 2 Set the area to keep in focus (miniature effect scene frame).
 - ▼ button → ▲/▼ buttons to move the frame → (♣) button



- 3 Set the position in focus (AF point).
 ▲/▼/4/ buttons to move the AF point →
- 4 Shoot.

(a) button

The frame in horizontal orientation displayed when you press the
button in step 2 can be changed to vertical orientation by pressing the
buttons.



Recording a Variety of Movies (Movie Mode)

Full-featured The mode offers miniature effect movies ([[]167), video snapshots ([[]169), time-lapse movies ([[]171), and more.



Enter 🎮 mode.



Start recording.

- [●REC] is displayed during recording.
- To stop movie recording, press the movie shooting button again.
- You can also start or stop recording by touching []/[] on the screen.
- Black bars are displayed on the top and bottom edges of the screen in "mode. The black bars indicate image areas not recorded.
- In Mode, the image display area narrows and subjects are enlarged.
- Exposure can be adjusted by turning the exposure compensation dial.
- To switch between recording with auto focus and a fixed focus, touch [string k] on the screen or press the button before or during recording.
 (Auto focus is indicated by a green in the upper left of the [string k] icon.)
 Note that this icon is not displayed when a [Movie Servo AF] is set to
 [Disable].



Recording Movies at Specific Shutter Speeds and Aperture Values (Movie Manual Exposure)

Set the shutter speed, aperture value, and ISO speed before recording.





Ô



2 Set the ISO speed \rightarrow (\mathbb{R}) button



- **3** Set the shutter speed and aperture value.
 - Shutter speed:
 dial
 - Aperture value: () ring





- Some shutter speeds may cause flickering on the screen when recording under fluorescent or LED lighting, which may be recorded.
 - When the ISO speed is fixed, you can compare your specified value (where the exposure level indicator moves) to the standard exposure level by pressing the shutter button halfway. The exposure level indicator appears as [◀] 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 exposure level indicator shows the difference from standard exposure. The exposure level indicator appears as [◀] or [▶] when the difference from standard exposure exceeds 3 stops.

Recording HDR Movies

You can record high dynamic range movies that retain detail in highlights of high-contrast scenes.



B button → [*,] → choose [,]
 Start recording.



Shooting in Program AE (P Mode)

Shutter speed and aperture value are automatically adjusted to suit subject brightness.

P mode offers flexibility in setting AF operation, metering modes, and several other features.





2 Configure each feature as needed.

3 Shoot.

P: Program AE; AE: Auto Exposure

- If standard exposure cannot be obtained when you press the shutter button halfway, the shutter speed and aperture value blink in white. In this case, try adjusting the ISO speed or activating the flash (if subjects are dark), which may enable standard exposure.
- Movies can be recorded in P mode as well, by pressing the movie shooting button. However, some items on Quick Control and Menu screens may be automatically adjusted for movie recording.
- After you press the shutter button halfway, you can adjust the combination of shutter speed and aperture value by turning the 1 ring (Program Shift).



Shooting at Specific Shutter Speeds (Tv Mode)

Set the shutter speed before shooting. The camera automatically adjusts the aperture value to suit your shutter speed.



Slow









2 Set the shutter speed.
I ring

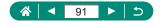
3 Shoot.

0

• **Tv**: Time value

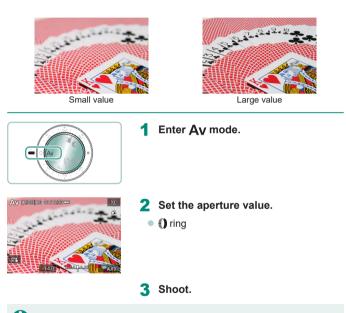
 We recommend deactivating image stabilization when shooting at slow shutter speeds on a tripod.

 Blinking display of the aperture value when you press the shutter button halfway indicates that the standard exposure has not been obtained. Adjust the shutter speed until the aperture value stops blinking.



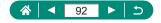
Shooting at Specific Aperture Values (Av Mode)

Set the aperture value before shooting. The camera automatically adjusts the shutter speed to suit your aperture value.



 Av: Aperture value (size of the opening made by the diaphragm in the lens)

 Blinking display of the shutter speed when you press the shutter button halfway indicates that the standard exposure has not been obtained. Adjust the aperture value until the shutter speed stops blinking.



Shooting at Specific Shutter Speeds and Aperture Values (M Mode)

Set the shutter speed and aperture value before shooting to obtain the desired exposure.



Enter M mode.

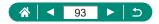




- **3** Set the shutter speed and aperture value.

 - Aperture value: () ring







🕨 M: Manual

When the ISO speed is fixed, you can compare your specified value (where the exposure level indicator moves) to the standard exposure level by pressing the shutter button halfway. The exposure level indicator appears as [◀] or [▶] when the difference from standard exposure exceeds 3 stops.

- After you set the shutter speed and aperture value, the exposure level indicator may change if you adjust the zoom or recompose the shot.
- When the ISO speed is fixed, 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 [4].
- Exposure may not be as expected when the ISO speed is set to [AUTO], because the ISO speed is adjusted to ensure standard exposure relative to your specified shutter speed and aperture value.
- Image brightness may be affected by Auto Lighting Optimizer. To keep the Auto Lighting Optimizer disabled in M mode, add a [√] mark to [Disable during man expo] on the Auto Lighting Optimizer setting screen.
- Calculation of standard exposure is based on the specified metering method.
- To adjust exposure when ISO speed is set to [AUTO], turn the exposure compensation dial.



Shooting Long Exposures (Bulb)



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

Μ



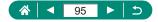
Π

dial \rightarrow [BULB]

 Turn the dial counterclockwise.
 After [30"] is displayed, the next option is [BULB].

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.
- 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.
- When [Touch Shutter] is set to [Enable], 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.



Zooming In Closer on Subjects (Digital Zoom)

When distant subjects are too far away to enlarge using the optical zoom, use digital zoom for up to about 16x enlargement.

AUTO



(1) AUTO (2383)20 01 18 20

Move the zoom lever toward T.

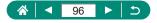
- Press and hold the lever.
- Zooming stops at the largest zoom factor before the image becomes noticeably grainy, which is then indicated on the screen.

2 Press toward T again.

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

Using the zoom lever will show the current position on the zoom bar. 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.
- No blue range is displayed under certain pixel count settings, and you can zoom in to the maximum level in one zoom operation.
- To deactivate digital zoom, choose
 [Digital zoom] → [Off].



Locking Image Brightness / Exposure (AE Lock)

Exposure can be locked when shooting stills and recording movies, or focus and exposure can be set separately.



Without AE lock

Q

222 200

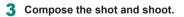




P [2383]20 01:18:35

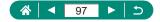
F4 0

- Aim at a subject for fixed exposure.
 Press the + button.
 - [★] is displayed, and the exposure is
 - To unlock it, press the button again.





AE: Auto Exposure



locked.

Shooting Close-Ups (Macro)

To restrict the focus to subjects at close range, set the camera to [V].





0

Press the I button to choose [...].



If the flash fires, vignetting may occur.

 To prevent camera shake, try mounting the camera on a tripod, pressing the ▲ button, and choosing [᠔2] before shooting.



Shooting in Manual Focus Mode

When focusing is not possible in AF mode, use manual focus. To make focusing easier, magnify the display.



- Set the camera to manual focus.
- Press the ◀ button and choose [MF].
- [**MF**] and the MF indicator are displayed.

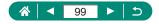
Ρ



2 Focus.

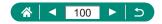
- Using the MF indicator (1, which shows distance and focal position) as a guide, press and hold the ▲/▼ buttons to specify the general focal position.
- Briefly press the ▲/▼ buttons to finetune the focal position as you watch the magnified display. To adjust the magnification, press the ▶ button.
- You can move the magnified display area by dragging it. To return it to the center, press the **MENU** button.

3 Shoot.





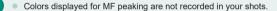
- To focus more accurately, try attaching the camera to a tripod to stabilize it.
- You can start manual focus with magnified display (MF-point zoom).
- Press the shutter button halfway to have the camera fine-tune the focal position (Safety MF).
- Magnified display in step 2 is not available during RAW burst shooting.



Easily Identifying the Focus Area (MF Peaking)

Edges of subjects in focus are displayed in color to make manual focusing easier. You can adjust the color and display level.

AF+MF MF peaking settings Safety MF MF-point zoom IS settings TA duto level Diaital zoom	7 8 sHOOT7 Disable On 5x Enable Standard	1	【 [MF peaking settings] → [Peaking] → [On]
MF peaking settings		2	Configure the settings.
Peaking	On		
Level Color	High Red		
COIOI	Red		





Shooting with AF Lock

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

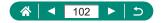


Lock the focus.

- The focus is now locked, and [MF] and the MF indicator are displayed.

2 Compose the shot and shoot.

AF Lock is not available when set to Servo AF (¹/₁148).



Ρ

Shooting at Preset Focal Lengths (Step Zoom)

Shoot at common focal lengths in a range of 24 – 100 mm (35mm film equivalent).

AUTO



- To zoom in, turn the () ring counterclockwise. To zoom out, turn the () ring clockwise.
- Step zoom is not available when recording movies even if you turn the ring.
- When you are using digital zoom, you cannot adjust the zoom factor by turning the () ring counterclockwise. However, you can set the focal length to 100 mm by turning it clockwise.



Changing Image Quality

Choose from 7 combinations of size (number of pixels) and compression (image quality). Also specify whether to capture images in RAW format.





Image quality. Although [1] images have slightly lower image quality. More fit on a memory card. Note that [\$2]-size images are of [1] quality.

Capturing in RAW Format

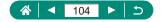
The camera can capture images in JPEG and RAW format. RAW images are "raw" data, before processing to create JPEGs.



Ρ







Ρ



2 Choose the method of shooting in RAW.

- [RAW] produces RAW images with maximum image quality. [CRAW] produces RAW images with more compact file sizes.
- RAW image data cannot be used as-is for viewing on a computer or printing. You must first process it on this camera or use the Canon application Digital Photo Professional to convert images to ordinary JPEG or TIFF files.
- Digital zoom is not available when capturing images in RAW format.
- The file extension for JPEG images is .JPG, and the extension for RAW images is .CR3. File names of JPEG and RAW images captured together have the same image number.
- You can also configure this setting in [Image quality]. To capture images in both JPEG and RAW format simultaneously, choose [RAW] or [CRAW] in [RAW].
- Only JPEG images are captured when [RAW] is set to [-] on the
 [Image quality] screen, and only RAW images are captured when [JPEG] is set to [-].



Changing the Aspect Ratio

The image aspect ratio (ratio of width to height) can be changed.



3:2



4:3

AUTO

Ċ.		¥		((†))	Ý	
						SHOOT1
Imag	e qu	ality			4 L	
Still i	ng a	ispe	ct ra	tio		3:2
Imag	e rev	/iew			2 sec.	
Flash	sett	ings				
Drive	mo	de			🗆 🖏	
Date	stan	np	8		Off	

1 D [Still img aspect ratio]



Changing the Image Display Period after Shots

How long images are shown after shots is adjustable.

AUTO

 (†) 	ŕ
	SHOOTI
Image quality 🛛 🗖 🗖	
Still img aspect ratio	3:2
Image review 2 sec	
Flash settings	
Drive mode 🛛 🖸	òff
Date stamp 🖉 🛛 Off	

1 💼 [Image review]

Off	No image display after shots.
2 Sec./4 Sec./	Images are displayed for the specified time. Even while the shot is displayed, you can prepare for the next shot by pressing the shutter button halfway again.
Hold	Images are displayed until you press the shutter button halfway.



Changing the Flash Mode

You can change the flash mode to match the shooting scene.



Ω

Press the button to choose a flash mode.

Auto flash	Fires automatically in low-light conditions.
Flash on	Fires for each shot.
Slow synchro	Fires to illuminate the main subject (such as people) while shooting at a slower shutter speed to illuminate backgrounds out of flash range.
Flash off	For shooting without the flash.

• If the flash fires, vignetting may occur.

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



Ρ

Locking Brightness / Exposure in Flash Photography (FE Lock)

Retain the flash output level.



FE lock



Without FE lock (overexposed)

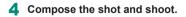
Ρ

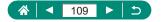


- Raise the flash and set it to [\$] or [\$*].
- 2 Aim at a subject for fixed exposure.



- Press the X button.
- The flash fires, a circle is displayed showing the metering range, and [^{*}/_{*}] is displayed, indicating that the flash output level has been retained.







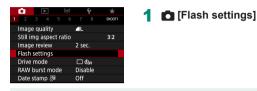
FE: Flash Exposure

• [4] blinks when standard exposure is not possible, even if you press the \bigstar button to fire the flash. Enable FE lock by pressing the \bigstar button when subjects are within flash range.



Configuring Flash Settings

Several flash settings are available.



You can also access the [Flash settings] screen by pressing the button and immediately pressing the **MENU** button.

Adjusting Flash Exposure Compensation

You can adjust the flash exposure from -2 to +2 stops, in 1/3-stop increments.







Set toward +

- [Flash exp. comp]



Darker

2 Set the amount of compensation.

Adjusting Flash Output

SET OK

Choose from three flash levels in Tv/Av/M modes.

1



Flash output: Minimum



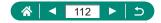
Flash output: Maximum

Flash settings	
Flash mode	Auto
Flash exp. comp	⁻ 21 ⁰ 1 ²
Shutter sync.	1st curtain
Red-eye lamp	On
Safety FE	On
	MENU ᠫ

[Flash mode] \rightarrow [Manual]

Flash settings	
Flash mode	Manual
Shutter sync.	1st curtain
Flash output	Minimum
Red-eye lamp	On
	MENU ᠫ

2 [Flash output]



Changing the Flash Timing

The timing of flash firing relative to shutter release is adjustable.



1st curtain



2nd curtain

Flash settings	
Flash exp. comp	212
Shutter sync.	1st curtain
Red-eye lamp	On
Safety FE	On
	MENU 🕤

1st curtain	The flash fires immediately after the shutter opens.
2nd curtain	The flash fires immediately before the shutter closes.

[1st curtain] is used whenever the shutter speed is 1/100 or faster, even if you select [2nd curtain].

[Shutter sync.]

Reducing Red-Eye

To help prevent red-eye, the camera can illuminate the red-eye reduction lamp before firing the flash in low-light shots.

Flash settings		1	[Red-e	ye lar	np]
Flash exp. comp	21012		-	-	• •
Shutter sync.	1st curtain				
Red-eye lamp	On				
Safety FE	On				
	MENU ᠫ				
					_
		N	113		5

Configuring Safety FE

To ensure suitable exposure in flash photography under unfavorable exposure conditions, the camera can automatically adjust the shutter speed, aperture value, and ISO speed.

Flash settings	
Flash exp. comp	212
Shutter sync.	1st curtain
Red-eye lamp	On
Safety FE	On
	MENU ᠫ



 Shots may be captured using settings different from the values displayed when you press the shutter button halfway.



Continuous Shooting

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





▲ button → [및 H] or [및]



- The camera shoots continuously as long as you hold the shutter button all the way down.
- During continuous shooting in AUTO mode, focus is locked at the position determined for the first shot.
- Shooting may stop momentarily or continuous shooting may slow down depending on shooting conditions and camera settings.
- As more shots are taken, shooting may slow down.
- There may be a delay before you can shoot again, depending on shooting conditions, the type of memory card, and how many shots you took continuously.
- Shooting may slow down if the flash fires.
- Screen display in continuous shooting differs from the images actually captured and may look out of focus.
- Fewer continuous shots may be available under some shooting conditions or camera settings.



Using the Self-Timer

With the self-timer, you can include yourself in group photos or other timed shots. The camera will shoot about 10 seconds after you press the shutter button all the way down. By setting the timer to two seconds, you can also avoid any camera shake from pressing the shutter button.

AUTO



▲ button \rightarrow [\circlearrowright_{10}], [\circlearrowright_2] or [\circlearrowright_C]

2 Shoot.

- Focus on the subject and press the shutter button all the way down.
- Once you start the self-timer, the lamp will blink and the camera will play a selftimer sound.
- Even when set, the self-timer has no effect if you press the movie shooting button to start recording.
 - 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.



Shooting in RAW Burst Mode

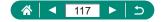
This mode enables fast continuous shooting of RAW images. Useful when you want to choose the best shot taken at exactly the right moment from your captured images. Shots are captured as a single file (roll) with multiple images. You can extract any image from the roll to save it separately (Q188).

1 2 3 4 5 1 Image quality)	1	C [RAW burst mode] \rightarrow [RAW burst mode] \rightarrow [Enable]
Still img aspect ratio	o <u>3:2</u>		
Image review	2 sec.		
Flash settings			
Drive mode	ப லீர		
RAW burst mode	Disable		
Date stamp 🗦	Off		
RAW burst mode	Pro a la la	2	[Pre-shooting]
RAW burst mode	Enable		
	Enable		
RAW burst mode Pre-shooting			

	Shooting begins slightly before (up to approx. 0.5 sec. before) you press the shutter button all the way down, after you initially hold it down halfway momentarily.
Disable	Shooting begins when you press the shutter button all the way down.



 An on-screen indicator shows buffer status.



- Pressing the shutter button all the way down shoots continuously until the buffer becomes full, or until you release the button.
- Use memory cards with enough free space (4 GB or more).
- SD Speed Class 10 or higher memory cards are recommended in RAW burst shooting. Writing will finish faster on cards with a fast write speed.
- RAW burst shooting is not available when the battery level indicator is blinking.
- Images may not be captured correctly if the battery runs out during image processing while you are shooting in RAW burst mode with a slow-writing card and low battery.
- ISO speed cannot be set manually in P, Tv, or Av mode, because ISO Auto is used.
- Shutter speeds slower than 1/30 sec. are not available in Tv or M mode.
- The camera does not autofocus as you shoot, and focus is determined by the first shot.
- The exposure setting for the first shot will apply to subsequent shots.
- Picture Style, white balance, and other settings configured for the first shot also apply to the next shots.
- The camera does not beep during continuous shooting, regardless of the \P [Beep] setting.
- File names of RAW burst images begin with CSI_ and end with the .CR3 file extension.
- Images are captured using the electronic shutter. Before shooting in RAW burst mode, read the notes and tips about the electronic shutter (^[1]147).
- RAW burst image data cannot be used as-is for viewing on a computer. You must first process it on this camera or use the Canon application Digital Photo Professional.



Adding a Date Stamp

The camera can add the shooting date to images, in the lower-right corner. However, note that date stamps cannot be edited or removed, so confirm beforehand that the date and time are correct ($\square 25$).







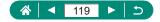
2 Shoot.

 As you take shots, the camera adds the shooting date or time to the lower-right corner of images.

 Shots taken without adding a date stamp can be printed with one as follows.

However, adding a date stamp this way to images that already have one may cause it to be printed twice.

- Print using printer functions
- Use camera DPOF print settings to print



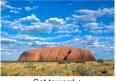
AUTO

Adjusting Image Brightness (Exposure Compensation)

Standard exposure set by the camera for stills or movies can be adjusted in 1/3-stop increments in a range of ± 3 stops.



Set toward -





Ρ



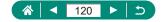
- Set the exposure compensation.
- Turn the exposure compensation dial to set the level.



2 Compose the shot and shoot.



For details on the [●] (assign) position of the exposure compensation dial, see (□283).



Auto Exposure Bracketing (AEB Shooting)

Three images are captured at different exposure levels. Bracketing width is adjustable in 1/3-stop increments in a range of ± 2 stops, centered on the exposure compensation level.



Underexposure



Expo.comp./AEB]



Exposur	e comp./AEB setting	
Darker		Brighter
Z	-3210123	
MB /*		• 0
	(SET OK

2 Configure the setting \rightarrow \circledast button

- Exposure compensation: Exposure compensation dial
- AEB: () ring

Shoot.

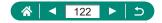
 Over a series of three images captured as you press the shutter button, exposure is adjusted relative to the level set in step 2, from standard exposure to underexposure to overexposure.



 When the drive mode is set to [High speed continuous] or [Low speed continuous], three images are captured each time you hold the shutter button all the way down, before the camera stops shooting.

۲ø

- To clear the AEB setting, set the AEB amount to 0, following the configuration procedure.
- AEB shooting is available only in P/Tv/Av/M/C modes without using the flash.
- If exposure compensation is already in use, the value specified for that function is treated as the standard exposure level for AEB.



Changing the ISO Speed for Stills

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.





- Although choosing a lower ISO speed may reduce image graininess, there may be a greater risk of subject and camera shake in some shooting conditions.
- Choosing a higher ISO speed will increase shutter speed, which may reduce subject and camera shake and enable sufficient flash illumination for subjects farther away. However, shots may look grainy.
- ISO speed can be set to H (25600) when [Maximum] for [ISO speed range] is set to [H(25600)].

Changing the ISO Speed Range

You can set the manually-settable ISO speed range (minimum and maximum limits).



[ISO speed settings] → [ISO speed range]



Because H (equivalent to ISO 25600) is an expanded ISO speed, image noise (including graininess, dots of light, and banding), irregular colors, and color shift will be more noticeable, and apparent resolution will be lower than usual.

🕨 Adjusting ISO Auto Range

You can specify the range used for ISO Auto.



Setting the Minimum Shutter Speed for ISO Auto

You can specify the minimum shutter speed used for ISO Auto in ${\ensuremath{\textbf{P}}}$ or ${\ensuremath{\textbf{Av}}}$ mode.



[Min. shutter spd.]

2 [Auto] or [Manual]

Auto	Turn the () ring to set the difference (slower or faster) from standard.
Manual	Turn the () ring to set the minimum shutter speed.





 If a correct exposure cannot be obtained with the maximum ISO speed limit set with [Auto range], a shutter speed slower than the [Min. shutter spd.] will be set to obtain the standard exposure.



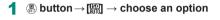
Changing the ISO Speed for Movies

In [m] mode, you can set the ISO speed manually.

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







Changing the ISO Speed Range

You can specify the range (minimum and maximum) used when ISO speed is set manually for HD, Full HD, or 4K movies.

This setting applies to [₱₩] mode.

ISO speed range Minimum	Maximum
125	6400
ОК	Cancel

- I [Image: Constraints] → [ISO speed range] or [Range for Image]
- [ISO speed range] applies to HD and Full HD movies.



Adjusting the Maximum ISO Auto Setting

You can choose the maximum ISO speed set automatically for HD, Full HD, 4K, or time-lapse movies.

RISO speed settings	
ISO speed	Auto
ISO speed range	125-6400
Range for 🖬	125-3200
Max for Auto	6400
4K Max for Auto	3200
Max for Auto	3200
	MENU 🛳

1 D [',ISO speed settings] → [Max for Auto]/[⊑4KMax for Auto]/ [...™Max for Auto]

[Max for Auto] applies to HD and Full HD movies.



Auto Correction of Brightness and Contrast (Auto Lighting Optimizer)

Correct brightness and contrast automatically to avoid images that are too dark or have too little or too much contrast.



🖳 Low



🖪 High

Ρ



(a) button \rightarrow [[] \rightarrow choose an option

- This feature may increase image noise under some shooting conditions.
- When the effect of Auto Lighting Optimizer is too strong and images become too bright, set it to [2]前一口[3]前二.
- Images may still be bright or the effect of exposure compensation may be weak under a setting other than [B]+] if you use a darker setting for exposure compensation or flash exposure compensation. For shots at your specified brightness, set this feature to [B]+].
- Fewer continuous shots may be available when this setting is set to [I].



Shooting Bright Subjects (Highlight Tone Priority)

Improve gradation in bright image areas to avoid loss of detail in subject highlights.



- Setting highlight tone priority to [D+] or [D+2] will prevent you from setting ISO speeds lower than [200]. Auto Lighting Optimizer is also set to [B] and cannot be changed, in this case.
 - Under some shooting conditions, images may not look as expected even if you choose [D+2].



Adjusting 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 [W] enables you to reduce the shutter speed and aperture value.





- When selecting [100], 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. ND: Neutral Density



Changing the Metering Method

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



1	E	button \rightarrow [[\textcircled{s}]] \rightarrow choose an option	
---	---	---	--

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



Setting the Metering Timer

Adjust how long the exposure value is displayed after you press the shutter button halfway.

Ó	Þ	((†))	Ý	*
1 2					SHOOT3
Meter	ring mo	de	3		
Meter	ring tim	er	8 se	C.	
Expo.	simulat	tion	Ena	ble	



▲ 132 ► 5

Configuring Exposure Simulation

With exposure simulation, image brightness more closely matches the actual brightness (exposure) of your shots. Image brightness changes in response to exposure compensation. Do not use this feature if you prefer image display at standard brightness, which is usually easier to see.

Ρ

Ó	►	((†))	I	ŕ	*
					SHOOT3
Meter	ing mo	de	3		
Meter	ring tim	er	8 sec		
Expo.	simulat	ion	Enab	le	

1 🖸 [Expo. simulation]



Capturing Natural Colors (White Balance)

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



Daylight



Cloudy



Tungsten light

Ρ



B button \rightarrow $\fbox{ } \textcircled{ } \blacksquare$ button \rightarrow $\fbox{ } \blacksquare$

Setting white balance

• \bigstar button $\rightarrow \spadesuit$ buttons

Adjusting white balance

MENU button → ▲/▼/4/▶ buttons

Setting white balance bracketing

- MENU button \rightarrow (dial
- Three images are captured per shot, each with different color tones.

Setting white balance color temperature

• $[\mathbf{K}] \rightarrow \mathbf{X}$ button $\rightarrow \mathbf{A}$ buttons



- 0
- Any correction level you set is retained even if you change the white balance option.
- On the advanced settings screen for correction, B is for blue, A for amber, M for magenta, and G for green.
- One level of blue/amber correction is equivalent to about 5 mireds on a color temperature conversion filter. (Mired: Color temperature unit representing color temperature conversion filter density)
- Color temperature can be set at 100K increments in a range of 2500 10000K.



Custom White Balance

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



Shoot a white object.

- Focus and shoot with a plain white object filling the screen.
- Press the B button.



.22

 $0.0/\pm 0$

Auto

•0

White balance

Picture Style

High ISO speed NR

Custom White Balance WB Shift/Bkt.



3 🖸 [Custom White Balance]

2	
SET 👥	MENU 5

4 Load the white data.

- Select your image from step 1 → ⊕ button → [OK]
- Use the MENU button to return to the shooting screen.



0

 Capturing a white subject that is too bright or dark may prevent you from setting the white balance correctly.

- Choose [Cancel] to choose a different image. Choose [OK] to use that image for loading white data, but note that it may not produce a suitable white balance.
- Instead of a white object, a gray chart or 18% gray reflector (commercially available) can produce a more accurate white balance.
- The current white balance and related settings are disregarded when you capture a white subject.



Customizing Colors (Picture Style)

Choose color settings that express scenes or subjects well.

1



B button → [:::A] → choose an
 option

Ó

≥ €A	Auto	The color tone is adjusted automatically to suit the scene. The colors look vivid, especially for blue skies, greenery, and sunsets in nature, outdoor, and sunset scenes.
≥ : ≤S	Standard	The image looks vivid, sharp, and crisp. Suitable for most scenes.
i≉ _ ≉P	Portrait	For smooth skin tones, with slightly less sharpness. Suited for close-up portraits. To modify skin tones, adjust [Color tone].
2 .	Landscape	For vivid blues and greens, and very sharp and crisp images. Effective for impressive landscapes.
2 . 51)	Fine Detail	For detailed rendering of fine subject contours and subtle textures. Makes images slightly more vivid.
3:SN	Neutral	For retouching later on a computer. Makes images subdued, with lower contrast and natural color tones.



8 F	Faithful	For retouching later on a computer. Faithfully reproduces the actual colors of subjects as measured under ambient light with a color temperature of 5200K. Vivid colors are suppressed for a subdued look.
3 : 5M	Monochrome	Creates black and white images.
2:1 2:2 2:3	User Def.	Add a new style based on presets such as [Portrait] or [Landscape] or a Picture Style file, and then adjust it as needed.

Default [Auto] settings are used for [[][], [][][][]], and [][][]]], until you add a Picture Style.

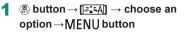
A



Customizing Picture Styles

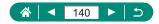
Customize parameters of Picture Styles, such as contrast or saturation.







- 2 Configure the settings.
 - Item: ▲/▼ buttons
 - Option: buttons



	Strength	Adjust the level of edge enhancement. Choose lower values to soften (blur) subjects, or higher values to sharpen them.		
Sharpness	Fineness	Indicates the edge thinness that enhancement applies to. Choose lower values for more enhanced details.		
Sharphess	(î Threshold	Contrast threshold between edges and surrounding image areas, which determines edge enhancement. Choose lower values to enhance edges that do not stand out much from surrounding areas. Note that with lower values, noise may also be emphasized.		
Contrast		Adjust the contrast. Choose lower values to decrease the contrast, or higher values to increase it.		
Saturation*	1	Adjust the intensity of colors. Choose lower values to make colors faded, or higher values to make them deeper.		
Color tone*	1	Adjust skin color tone. Choose lower values to produce redder hues, or higher values to produce yellower hues.		



♥ Filter effect*2	Emphasize white clouds, the green of trees, or other colors in monochrome images. N: Normal black-and-white image with no filter effects. Ye: The blue sky will look more natural, and the white clouds will look crisper. Or: The blue sky will look slightly darker. The sunset will look slightly darker. R: The blue sky will look duite dark. Fall leaves will look crisper and brighter. G: Skin tones and lips will appear muted. Green tree leaves will look crisper and
	Green tree leaves will look crisper and brighter.
Toning effect*2	Choose from the following monochrome hues: [N:None], [S:Sepia], [B:Blue], [P:Purple], or [G:Green].

*1 Not available with [

Π

- *2 Only available with [
 - In [Sharpness], [Fineness] and [Threshold] settings are not applied to movies.
 - [Filter effect] results are more noticeable with higher [Contrast] values.



Saving Customized Picture Styles

Save presets (such as [:::+P] or [:::+P]) that you have customized as new styles. You can create several Picture Styles with different settings for parameters such as sharpness or contrast.



1 (இ button → [ﷺ] → choose [ﷺ], [ﷺ], or [ﷺ] → MENU button



2 Configure the settings.

- Item: ▲/▼ buttons
- Option: huttons





Reducing Noise in High-ISO Shooting



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

Ρ



[High ISO speed NR]

Using Multi Shot Noise Reduction



Automatically combine four images captured at once to reduce noise. Compared to setting [High ISO speed NR] to [High], this feature minimizes loss of image quality while reducing noise.



[High ISO speed NR] → [Multi Shot Noise Reduction]

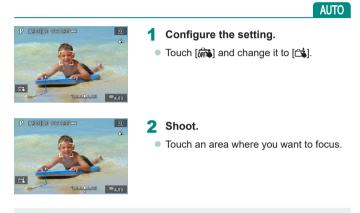


- 0
- Unexpected results may occur if images are quite misaligned (from camera shake, for example). Mount the camera on a tripod or take other measures to keep it still, if possible.
- If you shoot a moving subject, the subject's movement may leave afterimages or the surrounding area of the subject may become dark.
- Depending on shooting conditions, noise may appear on the image periphery.
- Flash shooting is not possible.
- Recording the image to the card will take longer than with normal shooting. You cannot take another shot until processing is finished.



Shooting by Touching the Screen (Touch Shutter)

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



• A yellow AF point indicates that the camera could not focus on subjects.



Shooting with the Electronic Shutter

A mechanical shutter is normally used for shooting, but switching to the electronic shutter enables faster shutter speeds.

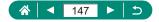
Ρ



1 Discrimination [Shutter mode] → [Electronic]

2 Shoot.

- Suitable for shooting under bright conditions with a fast shutter speed.
- The fastest shutter speed is 1/25600 sec.
- Camera shake or subject motion may cause image distortion.
- Under fluorescent lighting or other flickering light sources, the screen may flicker and images may be affected by horizontal stripes (noise) or irregular exposure. If so, it may be helpful to reduce the shutter speed.
- During exposure, a white frame is displayed around the screen as you shoot. Note that it is not displayed at shutter speeds slower than 1 sec.
- Lens aperture adjustment is still audible, even when set to [Electronic].
 Other mechanical sounds may also be audible, depending on shooting conditions.
- The mechanical shutter may be activated for image processing after you shoot, under some shooting conditions.
- Bands of light may be displayed and captured images may be affected by light and dark banding if you shoot with electronic shutter during flash firing by other cameras or under fluorescent lighting or other flickering light sources.
- Continuous shooting and flash photography are not available.



Shooting with Servo AF

Focus and exposure are maintained where the blue AF point is displayed while you press the shutter button halfway. This helps you avoid missing shots of subjects in motion.





- 2 Press the shutter button halfway to focus.
- **3** Press all the way down to shoot.
- The camera may not be able to shoot while focusing, even if you press the shutter button all the way down. Keep holding down the shutter button as you follow the subject.
- Exposure is not locked in Servo AF mode when you press the shutter button halfway but is determined the moment you shoot.
- Continuous shooting with auto focus is possible by specifying Servo AF. Note that continuous shooting is slower at this time.
- Depending on the distance to the subject and the subject's speed, the camera may not be able to achieve correct focus.



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Choosing the AF Method

Choose a method of auto focusing (AF) for the subject and scene you are shooting.

Ρ



ঞ্ button → [AF এ ট্রা] → choose an option

€+Tracking	Shoot with the focus on the face of the main subject, as determined by the camera. Subjects are tracked within a certain range.
Spot AF	Autofocus with an AF point smaller than for 1-point AF.
1-point AF	The camera focuses using a single AF point. Effective for reliable focusing.

 Focusing may take longer or be incorrect when subjects are dark or lack contrast, or in very bright conditions.

்+Tracking

Π

- After you aim the camera at the subject, a white frame is displayed around the face of the main subject as determined by the camera.
- If no faces are detected when you aim the camera at people, pressing the shutter button halfway displays green frames around other areas in focus.
- With the following subjects, faces may not be detected.
 - Subjects that are distant or extremely close
 - Subjects that are dark or light
 - Faces in profile, at an angle, or partly hidden
- The camera may misinterpret non-human subjects as faces.



Moving the AF Point

The AF point can be moved when the AF method is [1-point AF] or [Spot AF].



Touch the screen.

- Touch a spot to perform focusing on the spot (Touch AF).
- Center (original position): MENU button



Changing the Focus Setting

Continuous AF constantly focuses on subjects the camera is aimed at, even when the shutter button is not pressed. This setting can be changed to limit autofocusing to the moment you press the shutter button halfway.



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



Ρ

Configuring the AF-Assist Beam

The lamp lights up to help you focus when you press the shutter button halfway in low-light conditions. You can configure whether the beam is activated.

Ó				((†))		۴	*
							SHOOT6
AF op	erati	ion			ONE	E SHC	DT AF
AF m	etho	d			AF L	8	
Conti	nuou	is Al	F		Ena	ble	
AF-as	sist t	bean	n fir	ing			ON
Focus	brad	cketi	ing		Disa	ible	



Ρ



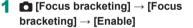
Continuous Shooting as the Focal Distance is Changed (Focus Bracketing)

Focus bracketing enables continuous shooting with the focal distance changed automatically after a single shot.

From these images, you can create a single image in focus over a wide area by using an application that supports depth compositing, such as the Canon application Digital Photo Professional.



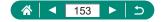
Ó	E	٩		((†))		Ý	*	
							SHOOT6	
AF operation ONE SHOT AF								
AF me	etho	d			AF C 🖽			
Conti	nuou	is Af	Enable					
AF-assist beam firing							ON	
Focus	cketi	Disa	ible					



Focus bracketing	
Focus bracketing	Enable
Number of shots	100
Focus increment	0+ 100
	MENU 🕤

2 Configure the settings.

Number of shots	Specify the number of images captured per shot.			
	Specify how much to shift the focus. This amount is automatically adjusted to suit the aperture value at the time of shooting.			



3 Shoot.

- To create a new folder: touch [] → [OK]
- Focus at the nearer end of your preferred focal range, then press the shutter button completely.
- Once shooting begins, release the shutter button.
- The camera shoots continuously, shifting the focal position toward infinity.
- Shooting ends after your specified number of images, or at the far end of the focal range.



- Mount the camera on a tripod or take other measures to keep it still.
- Shooting with a wider angle of view is recommended.
- Because larger aperture values increase the focus shift, focus bracketing covers a wider range under the same [Focus increment] and [Number of shots] settings in that case.
- Suitable [Focus increment] settings vary by subject. An unsuitable [Focus
 increment] setting may cause unevenness in composite images, or
 shooting may take more time because more shots are taken. Take some
 test shots to decide a suitable [Focus increment] setting.
- Flash shooting is not possible.
- Details such as shutter speed, aperture value, and ISO speed are determined by conditions for the first shot.
- To cancel shooting in progress, press the shutter button all the way down again.
- Canceling shooting in progress may cause exposure problems in the last image. Avoid using the last image when combining the images in Digital Photo Professional.
- If [Picture Style] is set to [Auto], [Standard] will be applied for shooting.
- [Focus bracketing] switches to [Disable] when the camera is turned off.
- After depth compositing, you can crop the image if necessary.
- Combining images may take some time when the [Number of shots] setting is high.



Fine-Tuning the Focus

You can fine-tune the focus after autofocusing by turning the control ring.

Ó	►	((†))	1	ŕ	*			
					SHOOT7			
AF+M			Disab	le				
MF pe	aking se	ettings						
Safety	Safety MF				On			
MF-po	m	5x						
IS sett	IS settings							
🖳 Aut	to level		Enable					
Digita	zoom		Stanc	dard				

1 \square [AF+MF] \rightarrow [Enable]

2 Focus.

 Press the shutter button halfway to focus on the subject, and continue holding the button halfway down.

Ρ

3 Fine-tune the focus.

- Turn the Tring. Referring to the on-screen MF indicator (which shows the distance and focal position) and the magnified display, turn the Tring to adjust the focus.
- To enlarge or reduce the magnified display, press the button.



Cannot be used with Servo AF.



Changing the IS Mode Settings

Image stabilization is adjustable.

Ρ

D	▲	((†))		Ý	\star		
					SHOOT7		
AF+N	1F		Disa	ble			
MF pe	eaking s	ettings					
Safet	Safety MF				On		
MF-p	MF-point zoom				5x		
IS set	tings						
🖳 Au	🖷 Auto level				Enable		
Digita	al zoom		Star	idard			

1 [IS settings] \rightarrow **[IS mode]**

Off	Deactivates image stabilization.
l()n	Optimal image stabilization for the shooting conditions is automatically applied.
Shoot only	Image stabilization is active only at the moment of shooting.

- The [IS mode] setting changes to [On] for movie recording, even if [Shoot only] is set.
- If image stabilization cannot prevent camera shake, mount the camera on a tripod or take other measures to hold it still. Additionally, you should set [IS mode] to [Off] when using a tripod or other means to secure the camera.



Correcting Severe Camera Shake

Counteract severe camera shake, such as when recording movies while moving. The portion of images displayed changes more than for [Standard], and subjects are further enlarged.

IS settings	
IS mode	On
Dynamic IS	Standard
Reduces camera shooting while w	
	MENU 5





Using Auto Level

Auto leveling helps keep movies straight as you record them.

Once recording begins, the display area may narrow, and subjects may be enlarged.

● ► 1 2 3 4	((†)) 5 6	۴	★ SHOOTS	1	🗖 [', Auto leve
AF method		AFC囧			
MF peaking s	ettings				
Safety MF		On			
IS settings					
🖳 Auto level		Enable			
Digital zoom		Standard			
HDMI info dis	р		ON		



1

Using Digital Tele-Converter

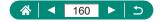
The focal length of the lens can be increased by approximately 1.6x or 2.0x. This can reduce camera shake because the shutter speed is faster than it would be if you zoomed (including using digital zoom) in to the same zoom factor.

Ó		((†))	Ŷ	· *	
				8 SH0017	
AF+M	F		Disab	le	
MF pe	eaking s	ettings			
Safety	/ MF		On		
MF-po	oint zoo	5x			
IS sett	tings				
'Ħ Au	to level	Enable			
Digita	ıl zoom		Stand	ard	

D [Digital zoom] \rightarrow [1.6x] or [2.0x]

 The view is enlarged and the zoom factor is displayed.

The shutter speed at maximum telephoto (when you move the zoom lever all the way toward T) may match the speed when zooming in to enlarge subjects with digital zoom.



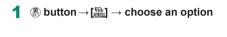
Ρ

Changing Movie Recording Size

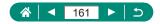
Adjust the movie recording size. The frame rate indicates how many frames are recorded per second, and available options depend on the NTSC or PAL setting.



П



- [4K 2997] and 44 2500] are only available in 开 mode.
 - Maximum recording time per movie is 9 min. 59 sec. for 4K movies and 29 min. 59 sec. for Full HD and HD movies.
 - Movie file names begin with MVI_ and end with the .MP4 file extension.
 - The camera may overheat after repeated movie recording, which may temporarily disable shooting.
- To avoid overheating, turn the camera off when you are not using it.



Recording Movies for Slow-Motion Playback (High Frame Rate)

Record Full HD movies at a high frame rate of 119.9 fps or 100.0 fps. Because high frame rate movies are recorded as 29.97 fps/25.00 fps movie files, they are played back in slow motion at 1/4 speed.



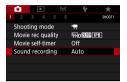
Movie rec quality]→[High Frame Rate]

- Before recording, press the shutter button halfway to focus.
- The maximum recording time per movie is 7 min. 29 sec.
- Sound is not recorded.



Configuring Sound Recording Settings

Several sound recording settings are available.



Sound recording]

Adjusting the Recording Volume

When set to [Auto], the recording level (volume) is automatically adjusted during recording. If you prefer to adjust the level manually to suit the scene, change it to [Manual].

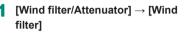
Sound recording			1	[Sound rec.] \rightarrow [Manua	al]
Sound rec.	Auto		- E.		
		-			
Wind filter/Attenuato					
-dB 40	12	<u><u>0</u></u>			
R					
	ME	NU 🕤			
Sound recording			2	[Rec. level]	
Sound rec.	Manual		-		
Rec. level				(\mathbb{R}) button $\rightarrow 4/$ buttons	
Wind filter/Attenuato	or		-	Sey Batton , V Battone	
-dB 40 L R	12	<u>•</u>			
	ME				



Wind Filter

Noise from windy recording sites can be reduced with the wind filter. If there is no wind, recordings may sound unnatural when this option is used. In this case, set [Wind filter] to [Disable].







The attenuator can prevent audio distortion at noisy recording sites. Three options are available: [Enable], [Disable], or [Auto] for automatic activation/deactivation as needed.

Sound recording		
Sound rec.	Auto	
		Ľ-
Wind filter/Attenu	uator	
-dB 40	12	0
R		
	Μ	ENU ᠫ

[Wind filter/Attenuator] → [Attenuator]



Configuring Movie Servo AF

Specify whether to keep subjects in focus when recording movies.





Π

🗖 [Movie Servo AF]

Enable	Keeps subjects in focus, even when the shutter button is not pressed halfway.
Disable	Focus remains constant as movies are recorded.

 To keep the focus at a specific position, or if you prefer not to record mechanical sounds from the lens, you can temporarily stop Movie Servo AF by touching C strong or pressing the button.



Using Auto Slow Shutter

Specify whether to reduce the shutter speed automatically under low light when recording [#HD 59247], [#HD 59247], [#HD 59247], [#HD 59247], or [#HD 59007], or [#HD 59007]



1 🖸 ['🕂 Auto slow shutter]

Enable	Enables you to record movies that are brighter and less affected by image noise by automatically reducing the shutter speed to 1/30 sec. (or 1/25 sec.) under low light.
Disable	Enables you to record movies with smoother, more natural movement, less affected by subject shake than when set to [Enable]. Note that under low light, movies may be darker than when set to [Enable].

Set to [Disable] when recording moving subjects under low light, or when afterimages such as trails may occur.



Miniature Model Effect in Movies (Miniature Effect Movie)



Miniature effect movie

Creates the effect of a miniature model in movies, by blurring image areas outside a selected area.



ঞ button → [ఊ্রিদ] → choose an option



- 2 Set the area to keep in focus (miniature effect scene frame).
 - ▼ button → ▲/▼ buttons to move the frame → (₽) button



- 3 Set the position in focus (AF point).
 - ▲/▼/↓ buttons to move the AF point →
 ④ button

4 Start recording.

 Press the shutter button halfway to focus, and then press the movie shooting button.



•

۱.,

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

Estimated playback speed and time for a movie recorded for one minute:

Sound is not recorded.

 To make people and objects in the scene move quickly during playback, choose [25x], [20x], [20x] before recording the movie. The scene will resemble a miniature model.

 To change the miniature effect scene frame orientation, press the buttons in step 2.



Recording Video Snapshots

Record a series of 4, 6, or 8 sec. video snapshots, and the camera will combine them to create a video snapshot album that shows these highlights of your trip or event.

Video snapshot	
Video snapshot	Enable
Album settings	New album
Playback time	4 sec.
Playback effect	1x speed
Show confirm msg	Enable
Time required	4 sec.
	MENU 🕤

1 ☐ [Video snapshot] → [Video snapshot] → [Enable]

2 Configure the settings.

Playback time	Choose the video snapshot playback time.	
Playback effect	Choose the video snapshot playback effect.	
Show confirm msg	Choose whether to display a confirmation message after each video snapshot is recorded.	

- The time required to record a video snapshot ([Time required]) is displayed, based on [Playback time] and [Playback effect].
- After your first video snapshot is recorded, in [Album settings], you can choose which album to save your next video snapshot to.





3 Start recording.

- Press the MENU button to return to the shooting screen, and then press the movie shooting button.
- A bar showing the elapsed time is displayed, and recording stops automatically when finished.

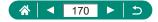


4 Save to an album.

- This message is not displayed if you set [Show confirm msg] to [Disable] in step 2, and the video snapshot is automatically saved to the album you selected in [Album settings] in step 2.
- Repeat steps 3 4 as needed.

5 Stop recording video snapshots.

- $(\underline{\mathbb{B}})$ button $\rightarrow [\underline{\mathbb{B}}_{4}] \rightarrow [\underline{\mathbb{B}}_{6}]$
- Video snapshots are saved to a new album when the recording time of the current album exceeds 5 min.
- The indicated playback time per video snapshot is only a guideline.
- Set the movie recording size to [FHD 2997P] or [FHD 2500P].
- Any video snapshots that you manually stop recording are saved as normal movies.
- No sound is recorded when you set [Playback effect] to [2x speed] or [1/2x speed].



Recording Time-Lapse Movies

Time-lapse movies combine images that are shot automatically at a specified interval. Any gradual changes of the subject (such as changes in a landscape) are played back in fast motion.

Ó	►	((†))	Ý	*
				SHOOT2
Remo	te contr	ol	Enable	
Time-	lapse m	ovie	Disable	
Video	snapsh	ot	Disable	

1 ☐ [Time-lapse movie] → [Time-lapse] → [Scene *] or [Custom]

Time-lapse movies	
Time-lapse	Scene 1
Interval/shots	3 sec./ 300
Movie rec. size	[₽] FHD
Auto exposure	Fixed 1st frame
Screen auto off	Disable
' ! 00:14:57	00:00:10
	MENU 🕤

2 Configure the settings.

- Set the shooting interval and other settings.
- 3 Return to the shooting screen and prepare for recording.
 - Mount the camera on a tripod or take other measures to keep it still.
 - Set the exposure.
 - To take a test shot: Press the shutter button all the way down.

4 Start recording.

 Movie shooting button → press the shutter button all the way down





- 0
- As you configure the items, the time required [₱,] and movie playback time [▶] are displayed.
- Set [Screen auto off] to [Disable] to keep the screen on for 30 minutes after you start shooting. Set it to [Enable] to turn the screen off about 10 seconds after the first frame is captured.
- Do not disturb the camera while recording.
- To cancel recording, press the shutter button or the movie shooting button again.
- Fast-moving subjects may look distorted in movies.
- Sound is not recorded.



Recording Movies of Yourself



- 1 Enter 🖷 mode.
- 2 Open the screen.



3 Touch [●].

Movie recording begins. To stop recording, touch [].

0

To lock the exposure (AE Lock) during movie recording, touch [★].
To focus manually during movie recording, touch [AF] to change it to [MF], and then adjust the focus by touching [▲] [▼].





Using the Movie Self-Timer

Movie recording can be started by the self-timer.



 $\fbox{[Movie self-timer]} \rightarrow [10 sec] \text{ or} \\ [2 sec]$

2 Shoot.

 After you touch [●] or press the movie shooting button, the camera beeps and displays number of seconds left before recording.



You can also use the movie self-timer for regular movie recording.



Configuring Information Display for HDMI Output

Specify whether to show on-screen information over images in HDMI output.

Ó		((†))	Ý	*
				SHOOT5
AF me	ethod		AFと問	
MF pe	eaking s	ettings		
Safety	/ MF		On	
IS set	tings			
' m Au	to level	Enable		
Digita	al zoom	Standard		
HDMI	info di	sp		ON

1 🛅 [HDMI info disp]

With info	Information display is included in HDMI output as movies are recorded. No image is shown on the camera. Movies can be recorded on the camera.
Clean/ ⊑4K output	HDMI output consists only of 4K content, without information display. On the camera, information display is shown over images. Movies cannot be recorded on the camera.
Clean/ IFHD output	HDMI output consists only of Full HD content, without information display. On the camera, information display is shown over images. Movies cannot be recorded on the camera.



<u>ال</u>

Setting the Type of Digest Movie

When shooting in 🔊 mode, both stills and digest movies are recorded. Specify whether to include a still moment in digest movies.

_								
	Ó	Þ	((†))	Ý		4	💼 [Digest type]	
					SHOOT2		[Digest type]	
	Touch	i Shutter		Disable				
	Diges	t type		Include	stills			
Г								

Include stills	Digest movies include a still moment.
No stills	Digest movies do not include a still moment.



1

Playback

Enjoy browsing through your shots, and find and edit images in several ways.

 To prepare the camera for these operations, press the button to switch to playback.



Viewing

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







2 Choose images.



Movies are labeled with [SET].



SET Play 1

Play movie

Playing movies

- Ber button (twice)
 Ber button
 B
- Press the ▲/▼ buttons to adjust the volume.
- (1) Highlight scene



- Pressing the button when the camera is off starts playback, and pressing it again turns the camera off.
- The lens is retracted after about a minute during playback. You can turn the camera off when the lens is retracted by pressing the button.

- To switch to a shooting mode during playback, press the shutter button halfway, press the movie shooting button, or turn the mode dial.
- It may not be possible to play back or edit images that were renamed or already edited on a computer.
- Lines indicating the aspect ratio are displayed when you view RAW images. These lines are shown on the top and bottom of images shot at an aspect ratio of [16:9] and on the left and right of images shot at an aspect ratio of [4:3] or [1:1].
- Pressing the for button skips about 4 sec. backward or forward during movie playback. During digest movie playback, this skips to the previous or next clip.

Highlight Scenes

- Sections in blue on the movie playback panel are highlight scenes detected by the camera. Depending on the movie, it may take some time until blue sections are displayed. Note that the blue section for a long highlight scene may be automatically divided into a few parts.
- Turning the 1 ring during movie playback skips to the beginning of the highlight scene. When there are multiple highlight scenes, this skips to the beginning of the previous or next highlight scene.
- Highlight scenes are not detected in the following movies.
 - Digest movies
 - Miniature effect movies
 - Video snapshots
 - High frame rate movies
 - HDR movies
 - Time-lapse movies



Magnifying Images

Images you play back can be magnified.







- Choose an image.
- **2** Magnify or reduce the image.
 - Magnify: Zoom lever toward Q
 - Reduce: Zoom lever toward



Move the display position: ▲/▼/↓>
 buttons

When viewing a magnified image, you can switch to other images while maintaining magnified display by turning the 🏶 dial.



Viewing Digest Movies

A short movie of scenes when you shoot in a mode is created automatically. Playing a digest movie shows the scenes captured that day.



Choose a [SET 📲] image.



2 B button \rightarrow choose [**A**]

 The digest movie recorded automatically on the day of still shooting is played back from the beginning.



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



Finding Images in an Index

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



22 0 28 <u>18</u> 11 Di	
	l
🎘 👉 🎆 🛶 🛶 💓	l
(A) 🚎 🔬 📑 🏘 🚳	
IN IT IN IN IN IN IN	

Move the zoom lever toward **2**.

- Display more images: Zoom lever toward
- Display fewer images: Zoom lever toward Q
- 2 Find the images.
 - ▲/▼/∢ buttons or ⊕ dial
 - Intervious/next screen
- **3** Choose an image.
 - Button



Editing Movies

Removing the Beginning/End of Movies

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



Choose a [🖭 🖳 movie.









3 Choose [%].

- The movie editing panel and editing bar are displayed.

4 Specify portions to cut.

- Choose [\[] or [[] \[].
- To view the portions you can cut (identified by [从] on the screen), press the ◀/▶ buttons to move [▲] or [▶]. At the position to cut, press the இ button.





- 5 Review the edited movie.
 - Playback: []
 - Cancel editing: MENU button
- 6 Save the movie.
 - [<u>``</u>) → [New file]
 - Save a compressed version: [□] → [OK]

Image quality after compression when you choose [Save compressed version]

Before Compression	After Compression
E4K 299779, EFHD 599249, EFHD 291977	EFHD 29,97P
E4K 25009, EFHD 50009, EFHD 25009	EFHD 25.00P
EHD 59.94P	EHD 29.97P
EHD 50.00P	EHD 25.00P

- When you are specifying portions to cut, moving [▲] or (▲] to a position not identified with a [☆] icon will cut from the beginning to the nearest [☆] mark on the left (for [☆]) or from the nearest [☆] mark on the right to the end (for [☆]).
 - For digest movies (A161) and video snapshots (A169), deletion is performed on the basis of clips.
 - To erase and overwrite the original movie with the edited one, choose [Overwrite] on the screen for saving edited movies.
 - If the memory card lacks sufficient space, only [Overwrite] will be available.
 - Movies may not be saved if the battery pack runs out while saving is in progress.
 - When editing movies, you should use a fully charged battery pack.





Extracting Frames of 4K Movies as Stills

Frames of your choice in $[L_4 K \ 2000]$ or $[L_4 K \ 2000]$ movies can be saved as stills.



Choose a frame to extract.

 During playback, press the button, and then use [] or [] to choose a frame.



2 Save the image.

[□]] → [OK]



🕨 Editing Digest Movies

Individual chapters (clips) (Q61) recorded in 🚰 mode can be erased. Be careful when erasing clips, because they cannot be recovered.







2 (a) button \rightarrow choose [**3**]



- 3 Choose a clip.
 - During playback, press the button, and then use [] or [] to choose a clip.



4 Erase the selected clip.

[∰] → [OK]





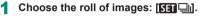




Extracting Stills from RAW Burst Images

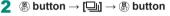
You can extract any image (as a JPEG or RAW image) from sets (rolls. (117) captured in RAW burst mode.















Choose an image.

- Press the buttons to choose an image to extract
- To delete unneeded portions at the beginning and end of the roll, press the ▲ button.

4 Save the image.

- as RAW]
- When extracting JPEGs, you can choose [Edit and save] and apply RAW image processing (202) before saving.







• Images saved when [Extract as JPEG] is selected are in [

 Creative filters, cropping, and resizing are not available when processing JPEGs extracted from RAW burst images or from RAW images extracted from RAW burst images.



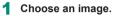
►

Protecting Images

Important images can be selected and protected to prevent accidental erasure from the camera.

Protected images are labeled with a Image.



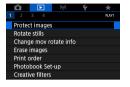


- Protected images on a memory card will be erased if you format the card.
- Protected images cannot be erased using the camera's erasure function. To erase them this way, first cancel protection.
- You can choose [All found images] or [Unprotect all found] by using
 [Protect images] or (Protect images] → ★ button when results are displayed for your specified image search conditions.
 - Choose [All found images] to protect all found images.
 - Choose [Unprotect all found] to clear protection of all found images.



Protecting Multiple Images

You can choose multiple images to protect at once.





••Protect images
Select images
Select range
All images in folder
Unprotect all images in folder
All images on card
Unprotect all images on card
MENU ᠫ





•-Select folder		
100CANON	46	105-0667
101CANON		200 - C
102CANON	320	
103CANON	214	105-0681
104CANON	84	
105CANON	15	
		SET OK

2 Choose images.

Selecting images individually

[Select images] → choose an image →
 (P) button → MENU button

Selecting a range

[Select range] → choose the first image
 →

 ⊕ button → choose the last image →

 ⊕ button → MENU button

Selecting all images in a folder

[All images in folder] → choose a folder
 → [OK]





Selecting all images on a card

• [All images on card] \rightarrow [OK]



Rotating Images



Change the orientation of images and save them.

1 Choose an image.



2 (a) button \rightarrow [a] \rightarrow choose an option



Changing Movie Rotation Information

Manually change movie rotation information (which determines which side is up).

1

Û		((†))	Ý	\star
1 2				PLAY1
Protec	t images:			
Rotate	e stills			
Change mov rotate info				
Erase images				
Print o	order			
Photobook Set-up				
Creati	ve filters			

[Change]	mov	rotate	info
----------	-----	--------	------

2 Choose a movie.

- **3** Press the **(Partial Bar)** button.



Erasing Images

Unneeded images can be erased. Be careful when erasing images, because they cannot be recovered.



Choose an image.

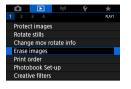
- 2 Press the A button.

- Protected images cannot be erased.
- During display of images captured in both RAW and JPEG format, pressing the button displays [Erase RAW], [Erase JPEG], and [Erase RAW+JPEG]. Choose an option to erase the image.
- You can choose [All found images] by using ▶ [Erase images] when results are displayed for your specified image search conditions.
 - Choose [All found images] to erase all found images.
- To clear selection and remove [√] display, press the ⁽/₍) button again when [√] is displayed on the screen after you have chosen ▶ [Erase images] → [Select and erase images].



Erasing Multiple Images at Once

You can choose multiple images to erase at once.





面Erase images	
Select and erase images	
Select range	
All images in folder	
All images on card	
MENU :	Ð







Select folder		
100CANON	46	105-0667
101CANON		
102CANON	320	
103CANON	214	105-0681
104CANON	84	
105CANON	15	
		SET OK

Selecting images individually

- [Select and erase images] → choose an image → () button
- MENU button → [OK]

Selecting a range

- [Select range] → choose the first image
 → (P) button → choose the last image →
 - (a) button \rightarrow **MENU** button \rightarrow [OK]

Selecting all images in a folder

 [All images in folder] → choose a folder → [OK]





mErase images	Selecting all images on a card
Erase all images on card (except 區images)	 [All images on card] → [OK]
Cancel OK	
Choosing an image	e captured in both RAW and JPEG format will erase

Choosing an image captured in both RAW and JPEG format will erase both versions.



Adding Images to Print Orders (DPOF)

Set up batch printing (up to 400 images) or ordering prints from a photo development service (up to 998 images) by choosing the images on a memory card and the number of copies. The printing information you prepare this way will conform to DPOF (Digital Print Order Format) standards.

D			Ý	\star
1 2				PLAYI
Prote	ect images			
Rota	te stills			
Chan	ige mov ro	otate info		
Erase	e images			
Print	order			
Phot	obook Set	-up		
Creat	tive filters			

Print order		
Standard		0 prints
Date File No.		Off Off
Sel.Image	Multiple	Set up
		MENU 🕤

[Print order]

2 Add images to the print list.

Choosing images

- [Sel.Image] or [Multiple] → choose images and the number of copies
- Press the MENU button to return to the printing screen.

Other settings

- [Set up] → choose an item → choose an option
- Press the MENU button to return to the printing screen.

• RAW images and movies cannot be selected.

- Not all of your DPOF settings may be applied in printing by the printer or photo development service, in some cases.
- Setting [Date] to [On] may cause some printers to print the date twice.

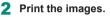


Printing Images Added to the Print Order (DPOF)

Print order		
Standard		2 prints
Date File No.		Off Off
Sel.Image	Multiple	Set up
Print		

Connect the camera to a PictBridgecompatible printer.

- The playback screen is displayed.
- (\mathbb{P}) button \rightarrow [Print order]



• [Print] \rightarrow [OK]



Adding Images to a Photobook

Photobooks can be set up by choosing up to 998 images on a memory card.

Û		((†))	Ý	\star
1 2				PLAYI
Protec	ct image	S		
Rotate	e stills			
Chang	ge mov r	otate inf	0	
Erase	images			
Print o	order			
Photobook Set-up				
Creati	ve filters			

Photobook Set-up
No. of images:0
Select images
Multiple
MENU ᠫ

►	[Photobook	Set-up]
---	------------	---------

2 Choose images.

Selecting images individually

[Select images] → choose an image →
 (P) button → MENU button

Selecting a range

 [Multiple] → [Select range] → choose the first image → () button → choose the last image → () button → MENU button

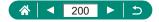
Selecting all images in a folder

 [Multiple] → [All images in folder] → choose a folder → [OK]

Selecting all images on a card

[Multiple] → [All images on card] → [OK]

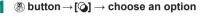
RAW images and movies cannot be selected.



Applying Filter Effects to Images (Creative Filters)

Apply effects equivalent to shooting in [4], [2], [3], [3], [3], [3], [3], [3], and [4], modes to images and save them as separate images.







Ω

2 Adjust the effect as needed.

- Set the level: \clubsuit buttons $\rightarrow \textcircled{B}$ button
- Move the [→] frame: ▲/▼ buttons → ④ button

3 Save the image.

- For [0], you can also choose the type of filter effect.
- For [45], you can also move the frame by touching or dragging across the screen.
- For [ৣৠ], you can switch to vertical orientation by pressing [¥] and restore horizontal orientation by pressing [¥] again.

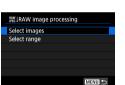


Processing RAW Images



Process images captured in RAW format on the camera. The original RAW image is retained, and a copy is saved as a JPEG. Available when the mode dial is set to $P/Tv/Av/M^2$.

Ô	Þ	((†))	Ý	\star
1 2				PLAY2
RAW	image pr	ocessing		
Creat	ive Assist			
Quick Control RAW processing				
Red-eye correction				
Create album				
Cropping				
Resize	9			







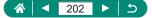
1 [RAW image processing]

2 Choosing images

Selecting images individually

- [Select images] → choose an image →
 (P) button
- The image is labeled with [√].
- MENU button → [Use shot settings]

Selecting a range





3 Save the image.



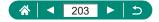
4 Choose the image to display.

0

- Images produced by in-camera processing will not match those processed with Digital Photo Professional exactly.
- To clear selection and remove [√] display, press the (B) button again when [√] is displayed on the screen after you have chosen [Select images].

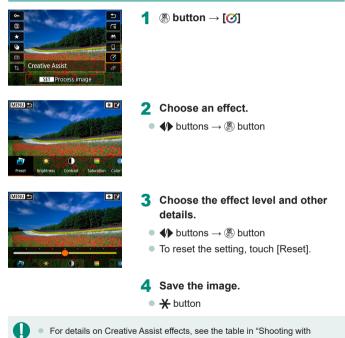
Customizing RAW Processing

- By choosing [Customize RAW processing], you can manually adjust image brightness, Picture Styles, and other details before processing.
- On the processing conditions screen, you can also choose an effect for the selected processing condition by turning the () dial.
- For magnified display on the processing conditions screen, move the zoom lever toward T.
- You can compare the current image ("After change") to the original image ("Shot settings") by pressing the ★ button and turning the dial.

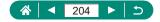


Applying Your Favorite Effects (Creative Assist)

Process RAW images by applying your preferred effects and saving as JPEGs



For details on Creative Assist effects, see the table in "Shooting with Effects Applied (Creative Assist)" (259).



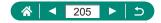
Enabling Quick Control RAW Processing

Change $[\mathcal{O}]$ on the Quick Control screen during playback to $[\mathbb{R}]$. Available when the mode dial is set to $\mathbf{P}/\mathbf{T}\mathbf{v}/\mathbf{A}\mathbf{v}/\mathbf{M}^*\mathbf{H}$.

D		((†))	Ý	\star
1 2				PLAY2
RAW image processing				
Creati	ve Assist			
Quick Control RAW processing				
Red-eye correction				
Create album				
Cropping				
Resize				

1 [Quick Control RAW processing] → [RAW image processing]

 [[#]] is now available on the Quick Control screen during playback.



Correcting Red-Eye

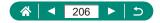


Automatically corrects images affected by red-eye. You can save the corrected image as a separate file.

Ô		((†))	Ý	\star
1 2				PLAY2
RAW	image pro	ocessing		
Creat	ive Assist			
Quick	Control I	RAW pro	cessing	
Red-eye correction				
Create album				
Cropping				
Resize	5			

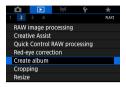
1 ► [Red-eye correction]

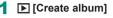
- 2 Choose an image.
- **3** Press the **(B)** button.
- 4 Save the image.
- Once red-eye is corrected, frames are displayed around corrected image areas.
 - Some images may not be corrected accurately.



Combining Video Snapshots

Combine video snapshots to create a new movie (album).







2 Specify video snapshots.

 Choose a movie (an existing album) → ⊕
 button → MENU button → [OK]

3 Edit the album.

- Video snapshots in the movie selected in step 2 are displayed.
- Choose an item in the editing menu at the bottom and press the (P) button.
- Along the top of the screen, choose video snapshots to edit, and edit them as needed.



≓ Rearrange video snapshots	Rearrange video snapshots. Choose a video snapshot to move and press the இ button. To move it, use the ◀/▶ buttons.
m Remove video snapshot	Choose video snapshots to exclude from the new album. Video snapshots labeled with a [´´´´´」 icon are not included in the new album, but they are not deleted from the original album.
Play video snapshot	Play the selected video snapshot.
🕒 Finish editing	Exit album editing.

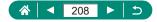
4 Exit editing.

- Press the MENU button to return to the editing menu.
- Choose [1] to exit editing.

5 Save the album.

- Choose [Save].
- To add background music, choose [Background music].
- Choose [Preview] to preview the album you edited.

Albums created with **>** [Create album] cannot be edited.



Cropping



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





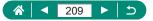
P button \rightarrow [‡]

2 Adjust the cropping area.

- Reduce the frame: Zoom lever toward Q Enlarge the frame: Zoom lever toward
- Move the frame: ▲/▼/↓ buttons

- **3** Save the image.









- RAW images cannot be edited.
- Cropped images cannot be cropped again.
- Cropped images cannot be resized or have creative filters applied.
- Cropped images will have a lower pixel count than uncropped images.
- While previewing the cropped image, you can adjust the cropping frame size, position, and aspect ratio.

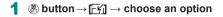


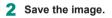
Resizing Images



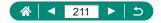
Save a smaller version of an image, with fewer pixels.







• JPEG [S2] images and RAW images cannot be edited.



Rating Images

Organize images by rating them on a scale of 1 - 5.





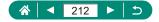


Π

- Choose an image.
- **2** B button \rightarrow [\bigstar] \rightarrow choose an option

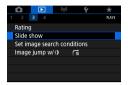
- Choose multiple images: ★ button → choose an item
- [Select range]: Choose the first image → choose the last image → MENU button → () ring to set the rating → [OK]
- [All images on card]: () ring to set the rating → [OK]

- By viewing only images with a specified rating, you can restrict the following operations to all images with that rating.
 - Viewing, protecting, erasing, or adding images to a print list or photobook, viewing slideshows
- To remove ratings, press the இ button, choose [OFF] in the [★] setting item, and then press the இ button.
- When rating images using
 [Rating], you can apply a rating to all images in a folder.



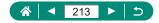
Viewing Slideshows

Automatically play back images from a memory card.



• [Slide show] \rightarrow [Start]

- After you start playback and [Loading image...] is displayed, the slideshow starts in a few seconds.
- Press the MENU button to stop the slideshow.
- The camera's power-saving functions are deactivated during slideshows.
- During a slideshow, you can also pause playback by touching the screen.
- You can switch to other images during playback by pressing the
 ↓ buttons or turning the
 ⊕ dial. For fast-forward or fast-rewind, hold the
 ↓ buttons down.
- On the slideshow start screen, you can choose [Set up] to configure slideshow repetition, display time per image, and the transition between images.



Finding Images Matching Specified Conditions

Find images quickly on a memory card full of images by filtering image display according to your specified conditions.







Π

(a) button \rightarrow [**b**]

2 Specify conditions.

- Item: ▲/▼ buttons
- Option: buttons
- 3 Complete the setting.
 - MENU button → [OK]
 - Matching images are displayed in yellow frames.

Canceling filtered display

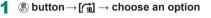
- ⊕ button → [♣] → ★ button → MENU button → [OK]
- If you edit images and save them as new images, a message is displayed, and the images that were found are no longer shown.



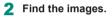
Using the Control Ring to Find Images

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









() ring



Customizing Playback Information Display

The shooting information displayed changes each time you press the \checkmark button when display is set to playback. You can customize the information displayed.

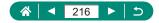


PLAYA

Playback information display View from last seen Enable [Playback information display]

- 2 Press the ▲/▼ buttons and select screens.
 - For screens to display, press the ⊕ button to add [√].

 - To specify a histogram to display, press the + button.
 - Choose [OK] to apply your settings.



Starting Playback from the Last Image Displayed

You can specify how image display begins when you switch to the playback screen after turning the camera off and on.

1

D		((†))	Ý	*
1 2	3 4			PLAY4
Playba	ack inform	nation di	splay	
View 1	from last :	seen E	nable	

[View from last seen]

Enable The last image displayed on the playback screer displayed.		
Disable	The most recent image is displayed.	

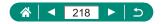


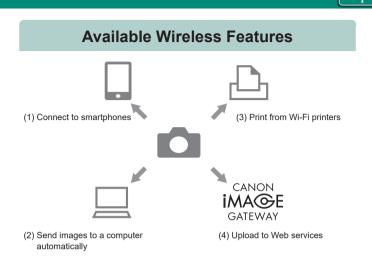
Wireless Features

Send images wirelessly to a variety of compatible devices, or share them via Web services.

Before using wireless features, be sure to read "Precautions for Wireless Features" (CA315).

- Note that Canon cannot be held liable for any loss or damage from erroneous wireless communication settings when using the camera. In addition, Canon cannot be held liable for any other loss or damage caused by use of the camera.
 - When using wireless communication functions, establish appropriate security at your own risk and discretion. Canon cannot be held liable for any loss or damage caused by unauthorized access or other security breaches.





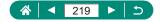
((**ๆ**))

 Connect to smartphones (²²²¹, ²²²⁸) Control the camera remotely and browse images on the camera over a Wi-Fi connection by using the dedicated Camera Connect app on smartphones or tablets.

You can also geotag images and use other features when connected by Bluetooth®*.

For convenience in this guide, smartphones, tablets, and other compatible devices are collectively referred to as "smartphones". * Bluetooth low energy technology (hereafter referred to as "Bluetooth")

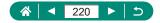
(2) Send images to a computer automatically (\$\overlime{1}235\$) With Image Transfer Utility 2, camera images can be automatically sent to a computer connected via Wi-Fi.



- (3) B Print from Wi-Fi printers (Q231) Print images over a Wi-Fi connection from printers compatible with PictBridge (wireless LAN) technology.
- (4) Deload to Web services (239) Share images with friends or family on social media or the CANON iMAGE GATEWAY online photo service for Canon customers after you complete member registration (free of charge), or stream to YouTube.

 Other devices, such as computers, cannot be used with the camera by connecting them with an interface cable while the camera is connected to devices via Wi-Fi. Terminate the connection before connecting the interface cable.

- Wireless communication settings cannot be configured while the camera is connected to a computer or other device via an interface cable. Disconnect the interface cable before changing any settings.
- The camera cannot be connected via Wi-Fi if there is no memory card in the camera (except for []]). Also, for [] and Web services, the camera cannot be connected via Wi-Fi if there are no images saved on the card.
- Wi-Fi connections are terminated if you set the camera's power to OFF or remove the memory card or battery pack.

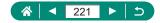


Saving Camera Images to a Smartphone

Images on the camera can be saved to a Bluetooth enabled smartphone connected via Wi-Fi.

Prepare the smartphone as follows.

- The free dedicated Camera Connect app must be installed on the smartphone.
- For details on this app (supported smartphones and included functions), refer to the Canon website.
- Camera Connect can be installed from Google Play or the App Store. You can also access Google Play or the App Store from a QR code that you can display on the camera when registering the smartphone on the camera.
- Use the latest version of the smartphone OS.
- Activate Bluetooth and Wi-Fi on the smartphone. Note that pairing with the camera is not possible from the smartphone's Bluetooth settings screen.
- For the operating system versions supported by Camera Connect, refer to the download site of Camera Connect.
 - Interface or functions of the camera and Camera Connect are subject to change for firmware update of the camera or application update of Camera Connect, Android, iOS, etc. In this case, features of the camera or Camera Connect may differ from sample screens or operation instructions in this manual.



Û		(q))	Ý	*
1				NETWORK
Wi-Fi/	Bluetooth	conne	ction	
Wi-Fi s	ettings		Enable	
Blueto	oth settir	ngs 🛛	Enable	
Nickna	ame		XXXXX	
GPS se	ettings			
Clear v	vireless s	ettings		

Connect to smartphone

MENU ᠫ

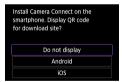
(<p) [Wi-Fi/Bluetooth connection]

2 [Connect to smartphone]

Select a device for connection
Add a device to connect to
Edit/delete device

* View info

3 [Add a device to connect to]





4 Choose an item.

- If Camera Connect is already installed, select [Do not display].
- If Camera Connect is not installed, select [Android] or [iOS], scan the displayed QR code with the smartphone to access Google Play or App Store and install Camera Connect.
- 5 [Pair via Bluetooth]





Pairing
Connect to this smartphone:
XXXXX
Cancel OK
Pairing
Paired with:
XXXXX
Use the Canon app/software

on the smartphone

- To pair with a different smartphone after pairing with one initially, choose [OK] on the screen at left.
- **6** Start Camera Connect.
- 7 Choose the camera to pair with.

In Android

• Touch the nickname of the camera.

In iOS

- Touch the nickname of the camera → [Pair]
- 8 On the camera, choose [OK].

 Pairing is now complete, and the camera is connected to the smartphone via Bluetooth.





9 In Camera Connect, touch [Images on camera].

- A Wi-Fi connection is established automatically.
- In iOS, touch [Join] when a message is displayed to confirm camera connection.

10 Confirm that the devices are connected via Wi-Fi.

- Images on the camera are listed on the smartphone.
- [Wi-Fi on] is displayed on the camera.
- **11** Save images on the camera to the smartphone.
 - Choose listed camera images and save them to the smartphone.
- Any active Bluetooth connections will be lost if you remove the camera battery pack. The connection will be reestablished when you insert the battery pack and turn on the camera.
- Battery life may be shorter when you use the camera after pairing with a smartphone, because power is consumed even when the camera is off.
- Before bringing the camera to places where the use of electronic devices is restricted, disable active Bluetooth communication (which is used even when the camera is off) by choosing ⁽([↑])</sup> [Bluetooth settings] → [Bluetooth] → [Disable].
- To turn off Wi-Fi signal transmission, choose $((\mathbf{q}))$ [Wi-Fi settings] \rightarrow [Wi-Fi] \rightarrow [Disable].
- You can change the camera nickname in ⁽⁽) [Nickname].





Connecting to Smartphones via Wi-Fi with the Wi-Fi Button

You can also establish a Wi-Fi connection with smartphones from the ((p)) button.





١.,	4.

Connect to this smartphone: XXXXX Viewable imgs Viewable imgs Cancel OK •

6 Check the SSID and password.

7 Connect the smartphone to the camera.

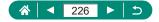
- In the smartphone's Wi-Fi setting menu, choose the SSID (network name) displayed on the camera to establish a connection.
- In the password field on the smartphone, enter the password displayed on the camera.
- 8 Start Camera Connect.

9 Select the camera to connect to.

 In the [Cameras] list in Camera Connect, touch the camera to connect to via Wi-Fi.

10 Establish a Wi-Fi connection.

- [OK] → (P) button
- []Wi-Fi on] is displayed on the camera.
- The main Camera Connect screen is displayed on the smartphone.
- The devices are now connected via Wi-Fi.



Restricting Image Viewing

Restrict the images that can be sent to the smartphone or browsed from the smartphone.



- Before connecting via Wi-Fi, press the ((*)) button.
- 2 [Connect to smartphone]
- 3 Choose [Edit/delete device], and then choose the smartphone.
- 4 Choose [Viewable imgs], and then specify which images can be viewed.
- Before reconnecting, check the setting for viewable images.
 Remote live view shooting in Camera Connect is not possible unless [Viewable imgs] is set to [All images].



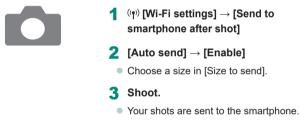
Features Used with Smartphones

The features described below are available over a wireless connection with smartphones.

Pair the camera with a smartphone via Bluetooth as described in steps 1 - 8 of "Saving Camera Images to a Smartphone" ($\square 221$), and connect via Wi-Fi as described in steps 1 - 10.

Sending Images to a Smartphone Automatically as You Shoot

Your shots can be automatically sent to a smartphone connected via Wi-Fi. Do the following with the main Camera Connect screen displayed.



Shooting Remotely as You View a Live Image on the Smartphone

As you view a live image on a smartphone connected via Wi-Fi, you can shoot remotely.



Start Camera Connect.

2 Touch [Remote live view shooting].



Focusing may take longer when shooting remotely.
Depending on the communication status, image display or shutter release timing may be delayed.

((**•**))

Controlling the Camera from a Smartphone

You can control the camera by using a smartphone paired via Bluetooth as a remote control. (Not available when connected via Wi-Fi.)



Auto power off is disabled while you are using the Bluetooth remote controller feature.

Geotagging Images as You Shoot

Your shots can be geotagged using GPS information (such as latitude, longitude, and elevation) from a smartphone paired via Bluetooth. On the playback screen, you can check the location information added to your shots.

On the smartphone, activate location services.

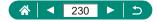


4 Shoot.

- Before shooting, confirm that [8] and [6PS] are shown on the camera.
- Your shots are now geotagged.
- From now on, shots you take with Camera Connect running will be geotagged.
- The location information added to movies is acquired initially, when you start recording.

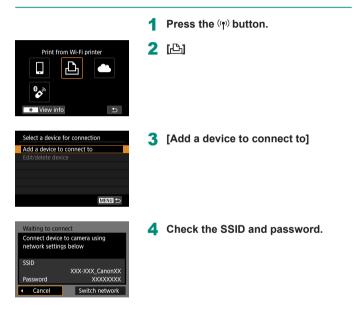
Π

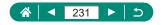
- Shots may not be geotagged immediately after the camera is turned on.
- Others may be able to locate or identify you by using location data in your geotagged still images or movies. Be careful when sharing these images with others, as when posting images online where many others can view them.
- By accessing playback screens with detailed information, you can check location information added to your shots. Latitude, longitude, elevation, and UTC (shooting date and time) are listed from top to bottom.
- UTC: Coordinated Universal Time, essentially the same as Greenwich Mean Time
- [---] is shown instead of numerical values for items not available on your smartphone or items not recorded correctly.



Connecting to Printers via Wi-Fi

Images on the camera can be printed on a printer connected to the camera via Wi-Fi.







Search agair	1	
XXXXX		
	Cancel	



5 Connect to the camera from the printer.

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

6 Choose the printer.

- Images on the memory card are displayed after the devices are connected via Wi-Fi.

Choose an image to print.

- Choose an image and press the
 button.
- Select or specify the items displayed, and then print.



Establishing a Connection via an Access Point

The camera can connect to an access point that a printer is connected to, to print via the access point.

Connect the devices near the access point, because you will need to press the WPS button.

network1.

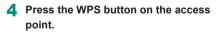


Select a network			
Refresh	1		
Camera access point mode	I		
Connect with WPS			
XXXXXXXX 🔒 11ch			
Convenient way to connect to a			
WPS-compatible access point			
Cancel	I		

Connect with W	PS			
OWPS (PBC mo	de)			
OWPS (PIN more	de)			
Connect by pressing WPS button on the wireless LAN terminal				
Cancel OK				

3 [WPS (PBC mode)] \rightarrow [OK]

[Connect with WPS]



In step 4 of "Connecting to Printers

via Wi-Fi" (231), choose [Switch



IP address set.				
 Auto setting 				
O Manual setting				
Cancel	ОК			

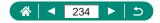
5 [Auto setting] \rightarrow [OK]

 The camera will connect to the access point.

6 Go to step 6 of "Connecting to Printers via Wi-Fi" (231).



The PIN code displayed when you choose [WPS (PIN mode)] in [Connect with WPS] is entered on the access point. Choose a device on the [Select a device for connection] screen. For further details, refer to the user manual included with your access point.



Sending Images to a Computer Automatically

Images on the camera can be automatically sent to a computer connected to an access point (also set up for camera Wi-Fi connections) when the camera is within range, as when you bring the camera home after shooting.

Connecting via Wi-Fi



1	Connect the computer to the access
	point.

- Install Image Transfer Utility 2 on the computer.
- 2 Start Image Transfer Utility 2.
- 3 In Image Transfer Utility 2, access the pairing settings screen.
 - The screen to set up pairing is shown when you follow the instructions displayed the first time Image Transfer Utility 2 starts up.
- 4 (👘) [Wi-Fi settings]

ú		(q))	Ý	*
1				NETWORK
Wi-Fi/	Bluetooth	connec	tion	
Wi-Fi	settings	E	nable	
Bluetooth settings			nable	
Nickn	ame)	XXXX	
GPS settings				
Clear	wireless s	ettings		



Wi-Fi settings	
Wi-Fi	Enable
Password	Required
Connection history	Show
Auto send images to	o computer
Send to smartphone	e after shot
MAC address	
	MENU 🛳

5 [Auto send images to computer] → [Auto send] → [Enable]

Make sure th	era with computer. le computer running app/software is on.	I
Cancel	ОК	Þ

Select a network	
Refresh	
Connect with WPS	
XXXXXXXX	🔒 11ch
XXXXXXXX	🔒 12ch
Convenient way to conr	nect to a
WPS-compatible access	point
Cancel	

6 [OK]

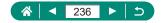
7 [Connect with WPS] \rightarrow [WPS (PBC mode)] \rightarrow [OK]

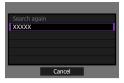


IP address set.	
 Auto setting 	
O Manual setting	
Cancel	ОК

8 Press the WPS button.

- Press the WPS button on the access point to allow the camera to connect.
- **9** [Auto setting] \rightarrow [OK]







10 Choose a computer.

• Choose a computer for auto image transfer and press the () button.

11 On the computer, choose the camera for pairing.

- Camera nicknames are shown on the pairing screen in Image Transfer Utility 2.
- Choose the camera to connect to and click [Pairing] to connect the computer and camera.

Setting Up Auto Image Transfer



12 Specify the sending options.

 For [Auto send images to computer] in step 5, choose [Image sending options] and specify the transfer conditions.

13 Turn the camera off.

Sending Images Automatically

• Following the sending options in step 12, images on the camera are automatically sent to the computer you are logged in to when you bring the camera within range of the access point and turn the camera on.



- When using auto image transfer, ensure that the battery pack has sufficient charge. Power saving on the camera is deactivated during image transfer.
- Any images captured after auto image transfer are not sent to the computer then. They are sent automatically when the camera is restarted.
- If auto image transfer to a computer does not begin automatically, try restarting the camera.
- To stop sending images automatically, choose [Auto send images to computer] → [Auto send] → [Disable].
- Images are not sent to a computer automatically while connected via USB (including connection to PD-E1).



Uploading Images to Web Services

🗣 Registering Web Services

Π

Use a smartphone or computer to add your Web services to the camera.

- A smartphone or computer with a browser and Internet connection is required to complete camera settings for CANON iMAGE GATEWAY and other Web services.
- Visit the CANON iMAGE GATEWAY website for details on versions of browsers (such as Internet Explorer) and settings required for CANON iMAGE GATEWAY access.
- For information on countries and regions where CANON iMAGE GATEWAY is available, visit the Canon website (http://www.canon.com/cig/).
- For CANON iMAGE GATEWAY instructions and setting details, refer to the help information for CANON iMAGE GATEWAY.
- To use Web services other than CANON iMAGE GATEWAY, you must have an account with 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.
 - Any changes to the services of your registered Web services may prevent operation or require operation different from the instructions in this guide.
 - For details on Web services you can use via Wi-Fi from the camera, visit the CANON iMAGE GATEWAY website.



Registering CANON iMAGE GATEWAY

Link the camera and CANON iMAGE GATEWAY by adding CANON iMAGE GATEWAY as a destination Web service on the camera.

Connect the devices near the access point, because you will need to press the WPS button.

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.

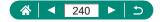


Camera web link settings		
Dece Name Date Name Decembershi		
Georgiano Georgiano Georgiano		
Name Rose: Name Name Rose: Name		
Described they take therefore		
Georgiano Georgiano Georgiano		
Name Datase Name Name Name Name		
Cancel I Agree		

Press the ^{((†))} button.



- 3 Accept the agreement to enter an email address.
 - Read the agreement displayed and choose [I Agree].
- 4 Establish a connection with an access point.
 - [Connect with WPS] → [WPS (PBC mode)] → [OK]
 - Press the WPS button on the access point.
 - Choose [Auto setting] on the camera's [IP address set.] screen.







5 Enter your email address.

6 Enter a four-digit number of your choice.

- Check for the notification message.
 [OK]
- [] now changes to [].

- 8 Access the page in the notification message and complete camera link settings.
 - Follow the instructions to complete the settings on the camera link settings page.





9 Choose [🚯].

 CANON iMAGE GATEWAY is now added as a destination Web service.

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.

Registering Other Web Services

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

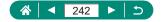


- Log in to CANON iMAGE GATEWAY and access the camera link settings page.
- http://www.canon.com/cig/
- 2 Follow the on-screen instructions to complete settings for Web services you want to use.



3 Press the (n) button to choose [.].

 If any configured settings change, update camera settings by registering affected Web services on the camera.



Uploading Images to Web Services





Press the (۱۹) button.

2 Choose the destination.

- Choose a Web service icon.
- If a Web service offers multiple recipients or sharing options, choose an item on the screen displayed for selecting recipients.

3 Send an image.

- Choose sending options and upload the image.
- When uploading to YouTube, read the terms of service and choose [I Agree].

0

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.

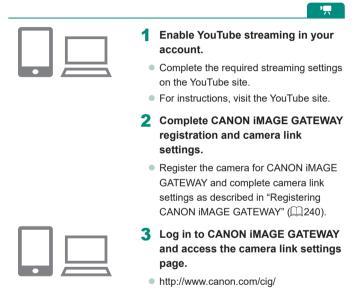


((**ๆ**))

Streaming Images

Images can be live-streamed from the camera.

Check the YouTube streaming requirements in advance on the YouTube site.











4 Enable YouTube streaming on the Web service settings screen of CANON iMAGE GATEWAY.

- Choose the [LIVE Streaming] item and follow the instructions displayed to complete the settings.
- Set [LIVE Streaming] to [ON].

5 Enter 💻 mode.

- You can set the camera to movie recording mode and choose autoexposure or manual exposure movie recording. (To set: [®] button → [Shooting mode])
- 6 Press the (p) button to choose [.
 - The [LIVE Streaming] icon is displayed.
 - Also available from the ^{((p))} [Wi-Fi/ Bluetooth connection] screen.



Streaming

- YouTube is the only streaming service supported by this camera.
- CANON iMAGE GATEWAY registration must be completed before you can use streaming services.
- YouTube streaming is subject to change, suspension, or termination without prior notice.
- Canon is in no way responsible for third-party services such as YouTube streaming.







- No image is recorded to the card during streaming (but a card must be in the camera).
- Images are streamed at approx. 6 Mbps for either [FHD 20077] (NTSC) or [FHD 20077] (PAL).
- The battery pack is not charged if you stream while using USB Power Adapter PD-E1 (sold separately), and power is only supplied to the camera.
- Pairing via Bluetooth is not possible during streaming.
- Audio may be noisy during streaming. Check for noisy audio in advance by using [PRVW] (Q250), for example. If noise from the external microphone is distracting, try placing the external microphone on the left side of the camera (on the external microphone IN terminal side) as far from the camera as possible.

Stream Now



[Live streaming]

Terms of use

Type of streaming	
Stream now	
Events	
MENU	

2 Check the terms of service.

- Read the agreement displayed and choose [I Agree].
- 3 [Stream now]



Stream now	
Stream under these settings Title XXXXX Privacy XXXXX	
Cancel OK	







4 Check the streaming details \rightarrow [OK]

5 [ок]

6 Start streaming.

- Configure recording features, just as in normal movie recording.
- When you are ready to start streaming, press the movie shooting button.
- Streaming begins automatically after [Preparing to stream] is displayed.
- [
 LIVE] is displayed in the upper right during streaming.
- The time that has elapsed since you pressed the movie shooting button is shown in the upper left, with the number of viewers in the lower left.
- Check the YouTube Live page to see how the streamed image looks.

7 Stop streaming.

 Press the movie shooting button again to stop streaming.





8 Exit live streaming mode.
 • Press the MENU button to choose [OK].

 It will take a moment before streaming begins in step 6. Do not operate the camera while the message is displayed.

Events (Streaming)

You can also stream by selecting an event that you have set up in advance on the YouTube Live page (by entering the streaming time and title).



- Complete event settings on the YouTube Live page.
- For instructions, visit the YouTube site.

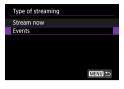




2 [Live streaming]

- **3** Check the terms of service.
 - Read the agreement displayed and choose [I Agree].





[Events]

Events	
Select an event to stream	
XXXXX	
XXXXX	
XXXXX	
MENU 🔿	

5 Choose an event.

• Choose an event that you have entered in YouTube Live in advance.

Events	
Stream under these settings	
Title	
XXXXX	
Streaming start time	
02.02.2019 10:00:00	
Privacy	
Cancel OK	



6 Check the streaming details \rightarrow [OK]

7 [ОК]









8 Press the 🛞 button.

- Choose [PRVW] or [LIVE].
- [PRVW] (preview): Enables you to test streaming without releasing images publicly. Useful for checking images before streaming.

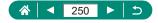
[LIVE]: Enables you to start streaming immediately by pressing the movie shooting button.

Start streaming.

- Configure recording features, just as in normal movie recording.
- When you are ready to start streaming, press the movie shooting button.
- Streaming begins after [Preparing preview] or [Preparing to stream] is displayed.
- [• PRVW] or [• LIVE] is displayed in the upper right during streaming.
- The time that has elapsed since you pressed the movie shooting button is shown in the upper left, with the number of viewers in the lower left.
- Check the YouTube Live page to see how the streamed image looks.

10 Stop streaming.

- Press the movie shooting button again to stop streaming.
- After checking the image with [PRVW], return to step 8 and choose [LIVE] to start streaming.





- 11 Exit live streaming mode.
 - Press the MENU button to choose [OK].

- It will take a moment before streaming begins in step 9. Do not operate the camera while the message is displayed.
 - Up to 20 events are displayed.
 - The number of viewers is not shown during previews.



Reconnecting via Wi-Fi

Reconnecting to devices or Web services via Wi-Fi is possible once the connection settings are registered.



- Press the ((†)) button.
- 2 From the past connections, choose a destination.

((**ๆ**))

- If your destination is not shown, press the
 buttons to switch to other screens.
- For Web services, the connection is now complete.
- **3** Prepare the other device.
 - Prepare the other device by following the instructions displayed.



Ending Wi-Fi Connections

- Press the ((p)) button.
- **2** [Disconnect, exit] \rightarrow [OK]

Wi-Fi on	
Disconnect,exit	
Confirm set.	
	C.



Clearing Information of Devices Paired via Bluetooth

Cancel pairing with a smartphone as follows.



- 1 ^{((φ))} [Wi-Fi/Bluetooth connection] → [□Connect to smartphone]
- 2 [Edit/delete device]
- 3 Choose the smartphone with registered information to clear.
- 4 [Delete connection information] → [OK]
- **5** Prepare the smartphone.
 - In the Bluetooth system settings, clear the registered camera information.



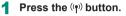


Changing or Deleting Connection Settings

Connection settings saved on the camera can be changed or deleted. Before changing or deleting connection settings, end the Wi-Fi connection.







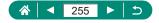
2 Choose an item.

- On the screen at left, you can switch to other screens by pressing the *I*/b buttons.
- On the screen at left, choose an item with connection settings to delete or change.



3 Choose [Edit/delete device].

- On the screen displayed, choose a device with connection settings to change, and then change the nickname or other information.
- You can change the Bluetooth connection by choosing a smartphone labeled with [3] in gray. After the [Connect to smartphone] screen is displayed, choose [Pair via Bluetooth], and then press the button on the next screen.



Function Settings

Make the camera easier to use by customizing or adjusting basic functions.

- These settings are configured on the ♀ and ★ menu tabs. Customize commonly used functions, for greater convenience.
- These instructions apply to the camera in **P** mode.



Selecting and Creating Folders

You can select or create folders where images are saved. New folders can be created by selecting [Create folder] on the folder selection screen.

Û	(1)) 💡	*
1 2 3			SET UP1
Select f	older		
File nur	nbering	Continuo	us
Auto rotate		On 🗅 旦	
Add 🖳 rotate info		Enable	
Format	card		
Start-up	o image		

¥ [Select folder]

Select folder		
100CANON	46	105-0667
101CANON		
102CANON	320	
103CANON	214	105-0681
104CANON	84	
105CANON	15	
Create folder		SET OK

Ò

2 Configure the settings.

- Select folders: simply select a folder
- Create folders: [Create folder] → [OK]
- Folders are named as in 100CANON, with a three-digit folder number followed by five letters or numbers.
- Folders with numbers in the range 100 999 can be created.



Changing File Numbering

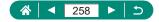
Your shots are automatically numbered in sequential order (0001 - 9999) and saved in folders that store up to 9,999 images each. You can change how the camera assigns file numbers.

Û	►	((†))	Ý	*
1 2	3 4	5		SET UP1
Selec	t folder			
File numbering		Continuo	us	
Auto rotate		On 🗖 🖵		
Add 🖳 rotate info		Enable		
Form	at card			
Start-up image			1	

1 **♀** [File numbering] → [Numbering] or [Manual reset]

Continuous	Images are numbered consecutively (until the 9999th shot is taken/saved) even if you switch memory cards or folders.
	Image numbering is reset to 0001 if you switch memory cards, or when a new folder is created.
Manual reset	Creates a new folder and starts numbering images from 0001.

 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) memory card.



Configuring Auto Rotation of Vertical Images

You can change the auto rotation setting that straightens images shot in vertical orientation when they are displayed.

Û	▲	((†))	Ý	*
1 2	3 4	5		SET UP1
Selec	t folder			
File n	umberin	g	Continuo	us
Auto rotate		On 🗅 😐		
Add 🖷 rotate info		Enable		
Form	at card			
Start-up image			1	

1 ¥ [Auto rotate]

	Automatically rotate images during playback on both the camera and computers.
	Automatically rotate images during playback on computers.
Off	Do not automatically rotate images.



Adding Orientation Information to Movies

For movies recorded with the camera held vertically, orientation information indicating which side is up can be added automatically to enable playback in the same orientation on smartphones or other devices.

Ó Þ	((†))	Ý	*
1 2 3 4			SET UP1
Select folder			
File numbering		Continuo	JS
Auto rotate		On 🗖 🖵	
Add ' rotate info		Enable	
Format card			
Start-up image			

1 ¥ [Add 🐂 rotate info]

Enable Play movies on smartphones or other devices in a orientation in which they were recorded.	
lijisanie	Play movies horizontally on smartphones or other devices, regardless of the recording orientation.

* These movies are played horizontally on the camera, regardless of the [Add ¹, rotate info] setting.



Formatting Memory Cards

Before using a new memory card or a card formatted in another device, you should format the card with this camera.

Low-level formatting may be helpful if the camera is not working correctly, reading/writing of images on the memory card is slower, continuous shooting is slower, or movie recording suddenly stops.

Both regular and low-level formatting erase all data on a memory card, which cannot be recovered.

	Ý	*
1 2 3 4 5		SET UP1
Select folder		
File numbering	Continuo	us
Auto rotate	On 🗖 旦	
Add 拱 rotate info	Enable	
Format card		
Start-up image		1
Format card		
Format	card	
All data will		
		_
160 KB used	29	7 GB
* Low level f		., 00
Cancel	ОК	ר
Cancer	UK	
		_
Format card		
Format	card	
All data will	be lost!	
160 KB used	29	.7 GB
* V Low level f	ormat	
		-
Cancel	OK	

1 ¥ [Format card]

Format: [OK]

 Low-level format: ★ button to select [√] → [OK]





Formatting or erasing data on a memory card only changes file management information on the card and does not erase the data completely. When disposing of or transferring ownership 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 takes longer than initial formatting, because data is erased from all storage regions of the memory card.
- You can cancel low-level formatting in progress by choosing [Cancel]. In this case, all data will be erased, but the memory card can be used normally.



Setting Start-up Screen Display

Specify display of the start-up screen shown when you turn the camera on.

(†) 🕨 🚺	Ý	*
1 2 3 4 5		SET UP1
Select folder		
File numbering	Continuo	sr
Auto rotate	On o 📃	
Add 🖳 rotate info	Enable	
Format card		
Start-up image		1

1 ¥ [Start-up image]



Using Eco Mode

This function allows you to conserve battery power in shooting modes. When the camera is not in use, the screen darkens to save battery life.

Ó Þ	((†))	Ý	*
1 2 3 4 5			SET UP2
Eco mode	(Off	
Power saving			
Disp. brightness		*	***
Night display	(Dff	
Date/Time/Zone	(02/02/19	10:00
Language 🕮		nglish	
Lens retraction		l min.	

1 ¥ [Eco mode]

On	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. To activate the screen and prepare for shooting when the screen is off but the lens is still out, press the shutter button halfway.
Off	Do not use Eco mode.



Adjusting Power-Saving Features

Adjust the timing of automatic camera and screen deactivation (Auto power off and Display off, respectively) as needed.

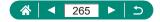
Ó 🕨	((†))	Ý	*
1 2 3 4 5			SET UP2
Eco mode	(Off	
Power saving			
Disp. brightness		*	***
Night display	(Off	
Date/Time/Zone	(02/02/19	10:00
Language 🕮		English	
Lens retraction	1	l min.	

Power saving	
Display off	1 min.
Auto power off	1 min.
	MENU ᠫ

[Power saving]

2 Configure the settings.

- The [Display off] setting is applied even if you set [Auto power off] to [Disable].



Adjusting Screen Brightness

Adjust screen brightness as follows.

Û		((†))	Ŷ	*
1 2				SET UP2
Eco m	node		Off	
Powe	r saving			
Disp.	brightne	SS	*	*÷
Night	display		Off	
Date/	Time/Zon	e	02/02/19	10:00
Langu	iade 🕼		English	
Lens r	retractior		1 min.	

🗣 [Disp. brightness]



ļ

Configure the settings.

• \clubsuit buttons \rightarrow \circledast button

For maximum brightness (regardless of the ♀ [Disp. brightness] setting), press and hold the ▼ button for at least one second from the shooting screen or during single-image display. To restore the original brightness, press and hold the ▼ button again for at least one second or restart the camera.



Switching the Color of Screen Information

Information displayed on the screen and menus can be changed to a color suitable for shooting under low-light conditions. Enabling this setting is useful in modes such as [2], [2], [2], [2], and [3].

Ó Þ	((†))	Ŷ	*
1 2 3 4 5			SET UP2
Eco mode		Off	
Power saving			
Disp. brightness		*+++	i 🔆
Night display		Off	
Date/Time/Zone		02/02/19	10:00
Language 🕮		English	
Lens retraction		1 min.	

Π





Adjusting the Date, Time, and Time Zone

Adjust the date, time, and time zone.

Ô 🕨	((†))	Ý	*
1 2 3 4 5			SET UP2
Eco mode		Off	
Power saving			
Disp. brightness		*	 i★
Night display		Off	
Date/Time/Zone		02/02/19	10:00
Language词		English	
Lens retraction		1 min.	



2 Configure the settings.

 Follow steps 2 – 3 in "Setting the Date, Time, Time Zone, and Language" (²)25) to adjust the settings.



Changing the Language

The current display language can be changed.

((†))	Ý	*
		SET UP2
(Dff	
	*	*÷
(Dff	
(02/02/19	10:00
l	nglish	
1	min.	
	: ((ᡎ) Off

1 🖌 [Language🗊]

2 Configure the settings.

▲/▼/↓ buttons to choose a language

 $\rightarrow (\mathbf{P})$ button

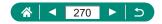


Lens Retraction Timing

The lens is normally retracted for safety about one minute after you press the \blacktriangleright button in shooting modes. To have the lens retracted immediately after you press the \blacktriangleright button, set the retraction timing to [0 sec.].

Ó Þ	((†))	Ý	*
1 2 3 4 5			SET UP2
Eco mode		Off	
Power saving			
Disp. brightness		*	÷i.≱
Night display		Off	
Date/Time/Zone		02/02/'19	10:00
Language 🕮		English	
Lens retraction		1 min.	

1 ¥ [Lens retraction]



Setting the Video System

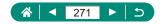
Set the video system of any television used for display. This setting determines the image quality (frame rate) available for movies.

1

Ó 🕨	(m) 💡	*
1 2 3 4 5		SET UP3
Video system	For NTS	C
Touch control	Standar	′d
Веер	Enable	
Volume		
HDMI resolution	Auto	
HDMI HDR outpu	t Off	

¥ [Video system]

For NTSC	For areas using the NTSC TV system, such as North America, Japan, South Korea, and Mexico.
For PAL	For areas using the PAL TV system, such as Europe, Russia, China, and Australia.



Adjusting the Touch-Screen Panel

Sensitivity of the touch-screen panel can be increased to respond to a lighter touch, or you can disable touch control.

D	▲	((†))	Ý	*
	3 4			SET UP3
Video	system		For NTSC	
Touch	n control		Standard	
Beep		Enable		
Volun	ne			
HDMI resolution		Auto		
HDMI HDR output		put	Off	

1 ¥ [Touch control]

- To increase panel sensitivity: [Sensitive]
- To deactivate the panel: [Disable]

 Increase the sensitivity of the touch-screen panel if gestures are not easily detected.

- Take the following precautions when using the touch-screen panel.
 - The screen is not pressure sensitive. Do not use sharp objects such as fingernails or ballpoint pens for touch operations.
 - Do not perform touch-screen operations when your fingers are wet.
 - If you perform touch-screen operations when the screen or your fingers are wet, the camera may not respond, or it may malfunction. In this case, turn the camera off and dry the screen with a cloth.
 - Do not apply screen protectors or adhesive film purchased separately. This may reduce the responsiveness of touch operations.
- The camera may be less responsive if you perform touch operations quickly when the setting is set to [Sensitive].



Adjusting Beeping

Specify whether the camera plays sounds when you press the shutter button halfway or use the self-timer.

Ó Þ	((†))	Ý	\star
1 2 3 4 5			SET UP3
Video system	Fo	r NTSC	
Touch control	Sta	andard	
Beep		able	
Volume			
HDMI resolution	Au	to	
HDMI HDR outpu	it Of	f	





5

 \triangleleft

273

Adjusting the Volume

Adjust the volume of individual camera sounds.

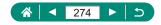
Ô 🕨	((†))	Ý	\star
1 2 3 4	5		SET UP3
Video system		For NTSC	
Touch control		Standard	
Веер		Enable	
Volume			
HDMI resolutio	n.	Auto	
HDMI HDR outp	out	Off	

1 🖞 [Volume]

Volume	
Start-up vol.	< *
Touch sounds	< → → → → → → ◆
Selftimer vol.	••
Shutter volume	<
	IMENU ᠫ

2 Configure the settings.

• (\mathbb{P}) button $\rightarrow 4$ buttons



Setting the HDMI Output Resolution

Set the output resolution used for camera images when connected to a television or external recording device with an HDMI cable.

1

	10 9	*
1 2 3 4 5		SET UP3
Video system	For NTSC	
Touch control	Standard	
Веер	Enable	
Volume		
HDMI resolution	Auto	
HDMI HDR output	Off	

[HDMI resolution]

Auto	Images are automatically displayed at optimal resolution for connected televisions.
1080p	Output at 1080p resolution. Select if you prefer to avoid display or delay issues when switching resolution.



RAW Playback on an HDR TV

You can view RAW images in HDR by connecting the camera to an HDR TV.

D	▲	((†))	Ý	\star
	3 4			SET UP3
Video	system		For NTSC	
Touch	n control		Standard	
Веер		Enable		
Volun	ne			
HDMI resolution Auto		Auto		
HDMI	HDR out	tput	Off	

¥ [HDMI HDR output]

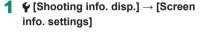
- Make sure the HDR TV is set up for HDR input. For details on how to switch inputs on the TV, refer to the TV manual.
- HDR output is not available for images in sets (rolls) captured in RAW burst mode.
- Depending on the TV used, images may not look as expected.
- Some image effects and information may not be displayed on an HDR TV.



Customizing Shooting Information Display

You can customize the details and screens of information shown on the camera when you shoot. Grid and histogram display can also be configured.

ô 🕨	((†))	Ý	*
1 2 3 4	5		SET UP4
Shooting info.	disp.		
Reverse display		On	
Units		m/cm	
Feature guide		Enable	







- 2 Press the ▲/▼ buttons and select screens.
 - For screens you prefer not to display, press the ⊕ button to clear [√].
 - To edit the screen, press the X button.

3 Edit the screen.

- Use the ▲/▼ buttons to navigate items.
- Use the

 ⊕ button to add a [
 √] next to
 items to display.
- Choose [OK] to apply your settings.

• The electronic level is not displayed when **o** [AF method] is set to [AF 上語].

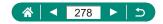


Setting Reverse Display

Specify whether to display a mirror image when shooting with the screen rotated around toward the front.

Ó 🕨 (†) 💡 ★
1 2 3 4 5	SET UP4
Shooting info. disp.	
Reverse display	On
Units	m/cm
Feature guide	Enable



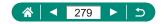


Metric / Non-Metric Display

Change the unit of measurement shown in the zoom bar (^[]96), the MF indicator (^[]99), and elsewhere from m/cm to ft/in as needed.

Ó 🕨	((†))	Ý	*
1 2 3 4			SET UP4
Shooting info.	. disp.		
Reverse displa	у	On	
Units		m/cm	
Feature guide		Enable	

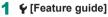


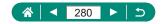


Configuring the Feature Guide

Specify whether to display feature guidance when items are selected on the Quick Control screen.

Û	▲	((†))	Ý	*
	3 4			SET UP4
Shoot	ing info	. disp.		
Reven	se displa	у	On	
Units			m/cm	
Feature guide			Enable	





Configuring Custom Functions

Configure Custom Functions for advanced camera customization.

Ó Þ	((p))	*
2 3 4 5		SET UPS
Custom Function	s(C.Fn)	
Custom shooting	mode (C mo	ode)
Reset camera		
Copyright inform	ation	
Manual/software	URL	
Certification Logo	o Display	
Firmware	🗗 Ver. 1	1.0.0

C.Fn I :Exposure Safety shift	1
0:Disabled	
1:Enabled	
1234 000-	MENU ᠫ

1 **•** [Custom Functions(C.Fn)]

- 2 Choose an item.
 - \clubsuit buttons $\rightarrow \textcircled{B}$ button

3 Configure the settings.

C.Fn I:Exposure Safety shift	Set to [1:Enabled] for automatic adjustment of the shutter speed and aperture value to bring the exposure level closer to standard exposure if standard exposure would not be available otherwise under your specified shutter speed or aperture value in Tv or Av mode.
C.Fn II:Others Control ring rotation	Change the direction of () ring rotation.
C.Fn II:Others Control dial rotation	Change the direction of 🏶 dial rotation.
C.Fn II:Others Custom Controls	Customize functions of buttons, such as the shutter button.



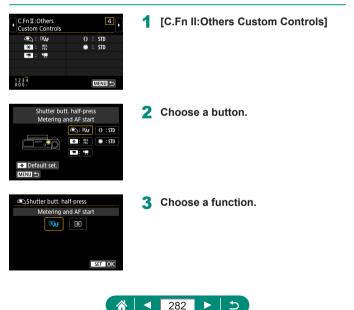
When C.Fn-2 or C.Fn-3 is set to [1:Reverse direction], changing the direction of rotation only applies to shutter speed, aperture value, or Program Shift adjustment, as assigned to the () ring or () dial.

Customizing Buttons

Customize functions of buttons, such as the shutter button.

★ (AE lock) button, () ring, and () dial settings apply to ',/P/Tv/Av/M/ C modes.

[Shutter butt. half-press] and [Movie shooting button] settings apply to P/Tv/Av/M/C modes.



- You can assign [Exposure compensation] functionality to the () ring. To adjust exposure compensation with the () dial, choose () on the Custom Controls setting screen, choose [2], return to the shooting screen, and set the exposure compensation dial to the () position.
- In P mode with the exposure compensation dial set to [•] and the () ring and () dial set to [STD], exposure compensation can be adjusted with the dial while the metering timer is running.
- Options you can set with the () ring vary depending on the shooting mode (whether the camera is in P/Tv/Av/➡ mode, or MP➡ mode).
- Some functions you configure may not apply (may be disabled) in Movie mode.

Options you can set when [STD] is assigned

		Shooting Modes		
Items	Settings	Р	Tv	Av
ring	STD	Program shift	Shutter speed	Aperture value
🌒 dial	STD	—	_	—

- * When the () ring is not assigned to [STD] but the () dial is, you can use the () dial to set Program Shift in P mode, shutter speed in Tv mode, or aperture value in Av mode.
- * When the ∰ dial is assigned to [STD] in **M**/₩ mode, you can use it to set shutter speed (or aperture value) when the **()** ring is assigned to [**Av**] (or [**Tv**]).

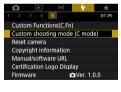


Custom Shooting Modes (C Mode)

Save commonly used shooting modes and your configured function settings for reuse. To access saved settings later, simply turn the mode dial to \mathbf{C} . Even settings that are usually cleared when you switch shooting modes or turn the camera off can be retained this way.

Settings That Can Be Saved

- Shooting modes (P/Tv/Av/M)
- Features set in P/Tv/Av/M modes (with some exceptions)
- Zoom positions
- Manual focus positions (^[]99)



Custom shooting	mode (C mode)	
Register settings		
Clear settings		
Auto update set.	Disable	
	MENU	Ð

- Enter a shooting mode with settings you want to save, and change the settings as desired.
- 2 ♀ [Custom shooting mode (C mode)]







To edit saved settings (other than shooting mode), choose C, change the settings, and then choose Y [Custom shooting mode (C mode)] → [Register settings] again. These setting details are not applied in other shooting modes.



Restoring Default Camera Settings

Restore default camera settings in P/Tv/Av/M/T modes.

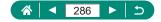
1 2 3 4 5 97.05 Custom Functions(C-Fn) Custom shooting mode (C mode) Reset camera Copyright information Manual/software URL Copyright information Manual/software URL Certification Logo Display Firmware ● Ver. 1.0.0 Reset camera Easic settings Other settings Other settings ● ■ ■ ■ Other settings ● ● ■ ■ Basic settings ● ● ■ ■ Basic settings ● ● ■ ■ Basic settings ● ● ■ ■ Other settings ● ■ ■ ■	Ô	▲	((†))	Ý	\star			
Custom shooting mode (C mode) Reset camera Copyright information Manual/software URL Certification Logo Display Firmware OVer. 1.0.0 Reset camera Basic settings Other settings Reset camera Basic settings Other settings		3 4	5		SET UPS			
Reset camera Copyright information Manual/software URL Certification Logo Display Firmware Reset camera Basic settings Other settings Reset camera Basic settings Other se	Custom Functions(C.Fn)							
Copyright information Manual/software URL Certification Logo Display Firmware OVer. 1.0.0 Reset camera Basic settings Other settings Reset camera Basic settings Other settings	Custo	om shoot	ing mode	e (C mod	e)			
Manual/software URL Certification Logo Display Firmware OVer. 1.0.0 Reset camera Basic settings Other settings Reset camera Basic settings Other settings								
Certification Logo Display Firmware Ver. 1.0.0 Reset camera Basic settings Other settings Reset camera Basic settings Other settings								
Firmware Ver. 1.0.0 Reset camera Basic settings Reset camera Basic settings Other settings Other settings								
Reset camera Basic settings Other settings Reset camera Basic settings Other settings								
Reset camera Basic settings Other settings	Firmv	vare		aver. 1.0	0.0			
Reset camera Basic settings Other settings								
Other settings	Reset	camera						
MENU → Reset camera Basic settings Other settings	Basic	settings						
Réset camera Basic settings Other settings	Othe	r settings						
Réset camera Basic settings Other settings								
Réset camera Basic settings Other settings								
Réset camera Basic settings Other settings								
Réset camera Basic settings Other settings								
Basic settings Other settings				M				
Basic settings Other settings								
Other settings	Reset	camera						
	Basic	settings						
Menu d	Othe	r settings						
(Menu) C								
Menu 🗠								
MENU S								
MENU 🕤								
				M	NU 🕤			

🗣 [Reset camera]

- Clear basic settings: [Basic settings] → [OK]
- Clear other settings: [Other settings] → choose an item → [OK]

0

Basic settings such as [Language $[\!\overline{\Sigma}\!]$ and [Date/Time/Zone] are not restored to defaults.



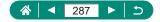
Setting Copyright Information to Record in Images

Your specified author's name and copyright details can be recorded in your shots.



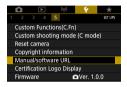
0

- 1 ♀ [Copyright information] → [Enter author's name] or [Enter copyright details]
 - Enter a name \rightarrow **MENU** button \rightarrow [OK]



Downloading Manuals/Software from a QR Code

A QR code can be displayed on the camera screen to access a webpage for downloading instruction manuals and software.

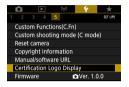


🖌 [Manual/software URL]



Displaying Certification Logos

Some logos for certification requirements met by the camera can be viewed on the screen.

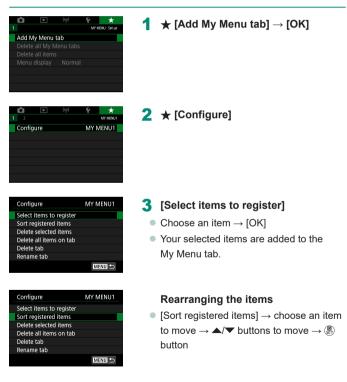


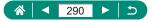
1 ¥ [Certification Logo Display]



Saving Commonly Used Shooting Menu Items (My Menu)

You can save up to six commonly used shooting menu items on the \bigstar tab. By customizing the \bigstar tab, you can access these items quickly from a single screen.









You can add up to [+5] My Menu tabs.

 Choosing [Configure] → [Delete all items on tab] → [OK] on your added My Menu tab will delete all items added to the tab.

🕨 Renaming My Menu Tabs

Configure	MY MENU1	1 [Rename tab]
Select items to registe	r	
Sort registered items		
Delete selected items		
Delete all items on tab)	
Delete tab		
Rename tab		
	MENU ᠫ	
		2 Change the tab name.
		• Enter a tab name \rightarrow MENU button \rightarrow

🕨 Deleting a My Menu Tab

Configure	MY MENU1
Select items to register	
Sort registered items	
Delete selected items	
Delete all items on tab	
Delete tab	
Rename tab	
	MENU ᠫ

[Delete tab]

Deleting All My Menu Tabs



🕇 🛨 [Delete all My Menu tabs]



Deleting All Added Items

Ĥ	▲	((†))	Ý	*
			MY M	ENU : Set up
Add N	1y Menu	tab		
Delete	all My N	/lenu tabs		
Delete	all item	5		
Menu	display	Normal		

★ [Delete all items]

🖣 Customizing My Menu Display

1

Specify which screen is displayed when the **MENU** button is pressed in shooting modes.

Ô			Ý	*
1 2			MY M	ENU : Set up
Add M	y Menu i	tab		
Delete	all My N	lenu tabs		
Delete	all items			
Menu	display	Normal		

🚹 ★ [Menu display]

Normal display	Display the most recent menu, as shown for your previous operation.	
Display from My Menu tab	Start display from ★ tab screens.	
Display only My Menu tab	Restrict display to \bigstar tab screens.	



Accessories

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

Use of genuine Canon accessories is recommended.

This product is designed to achieve excellent performance when used with genuine Canon accessories.

Canon shall not be liable for any damage to this product and/or accidents such as fire, etc., caused by the malfunction of non-genuine Canon accessories (e.g., a leakage and/or explosion of a battery pack). Please note that any repairs your Canon product may require as a result of such malfunction are not covered under warranty and will incur a fee.



Optional Accessories

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

Power Supplies





Battery Pack NB-13L

Rechargeable lithium-ion battery

Battery Charger CB-2LH Series

Charger for Battery Pack NB-13L

USB Power Adapter PD-E1

- Adapter for using the camera with household power
- The battery charger and USB 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



High-Power Flash HF-DC2

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





Others

Interface Cable IFC-100U

• For connecting the camera to a computer



Printers

Wireless Remote Control BR-E1

 Bluetooth enabled wireless remote control



Canon PictBridge-Compatible Printers

 Even without using a computer, you can print images by connecting the camera directly to a printer.

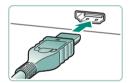


Using Optional Accessories

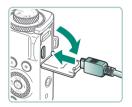
Playback on a TV

You can view your shots on a TV by connecting the camera to an HDTV with a commercially available HDMI cable (not exceeding 2.5 m / 8.2 ft., with a Type D terminal on the camera end). You can also shoot while previewing shots on the larger screen of the TV.

For details on connection or how to switch inputs, refer to the TV manual.



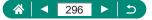
- Make sure the camera and TV are off.
- 2 Connect the camera to the TV.



3 Turn the TV on and switch TV input to the connected terminal.



- 4 Switch to playback.
 - Images from the camera are now displayed on the TV. (Nothing is displayed on the camera screen.)



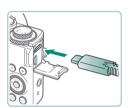


Some information may not be displayed when viewing images on a TV.
 During HDMI output, display of the next image may take some time if you switch between 4K and HD movies, or movies of different frame rates.



Using a USB Power Adapter to Charge/Power the Camera

With USB Power Adapter PD-E1 (sold separately), you can use the camera while charging the battery without removing it.



- Make sure the camera is off.
- 2 Connect the USB power adapter.
 - Insert the adapter plug as shown.





(1

3 Connect the power cord.

- Connect the power cord to the USB power adapter and plug the other end into a power outlet.
- The charging lamp (1) turns orange, and charging begins.
- Turn the camera on to use it while charging the battery (except when shooting or standing by to shoot).
- The lamp turns off when charging finishes.



- 0
- Icon meanings are as follows.

FULL: charging/powering the camera, feedback powering the camera only,

- To protect the battery pack and keep it in optimal condition, do not charge it continuously for more than 24 hours.
- If the charging lamp fails to light up or a problem occurs during charging (shown by the indicator on the back of the camera blinking in orange), unplug the power cord, reattach the battery, and wait a few minutes before plugging it in again. If the problem persists, contact a Customer Support Help Desk.
- The charging time required and the amount charged vary depending on ambient temperature and remaining capacity.
- For safety reasons, recharging in low temperatures will take longer.



Shooting Remotely

Wireless Remote Control BR-E1 (sold separately) can be used to shoot. Also refer to the wireless remote control instruction manual for additional information.

Ó	►	(q))	Ý	*
1				NETWORK
Wi-Fi/	Bluetooth	connec	tion	
Wi-Fi	settings	E	nable	
Bluet	ooth settii	ngs E	nable	
Nickn	ame)	XXXXX	
GPS s	ettings			
Clear	wireless s	ettings		



Ó	►	1	(₁))	Ý	*
1 2					SHOOT2
Remo	te contr	ol		Enable	
Time-	apse m	ovie		Disable	
Video	snapsh	ot		Disable	

Pair the devices.

- ('p') [Wi-Fi/Bluetooth connection] → [⁶s⁸]
 (Connect to Wireless Remote) → [Add a device to connect to]
- 2 Hold down both the W and T buttons on the BR-E1 for at least three seconds.
 - The devices are now paired.
- 3 Set up the camera for remote shooting.
 - Stills: ▲ button → []
 - For movie recording, make sure
 [Remote control] is set to [Enable].

4 Shoot.

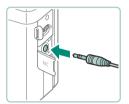
 For movie recording, set the remote control's release timing/movie shooting switch to ", and press the release button.



- Auto power off is triggered in about two minutes, even if you have set it for one minute or less.
- To clear pairing information, choose (^(q)) [Wi-Fi/Bluetooth connection] → [⁶/₂^N] → [Delete connection information] → [OK].

Using an External Microphone

To record with an external microphone (\square 31), connect a commercially available external microphone with a mini plug (3.5 mm diameter) to the external microphone IN terminal. Note that the built-in microphone is not used for recording when an external microphone is connected.



Connect the external microphone.

 Insert the external microphone plug as shown.

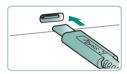
- Any attenuator settings you have configured are also applied to recording with the external microphone.
- Connecting an external microphone will deactivate [Wind filter].



Saving Images to a Computer

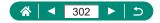
You can save images you have captured to a computer by connecting the camera to the computer with Interface Cable IFC-100U (sold separately; camera end: Type-C). For details on computer connections, refer to the computer user manual.

- Make sure the camera is off.
- 2 Connect the camera to the computer.



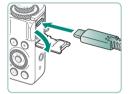
- **3** Turn the camera on.
- 4 Save the images to the computer.
 - To open images, use preinstalled or commonly available software.

You can also use a card reader to transfer images.



Printing Images

Print your shots by connecting the camera to a PictBridge-compatible printer with a USB cable (sold separately; camera end: Type-C). A Canon SELPHY CP series compact photo printer is used here for the sake of illustration. Screens displayed and available functions vary by printer. Also refer to the printer manual for additional information.



- Make sure the camera and printer are off.
- 2 Connect the camera to the printer.





- **3** Turn the printer on.
- 4 Switch to playback and choose an image.





5 Access the printing screen.

• (\mathbb{P}) button \rightarrow [Print image]

Cropping Cropping Default Default Cancel	Contractory of the second	양 Off 쯔 Off 당 1 copies
Default Cancel		Cropping

6 [Print]



Appendix



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. Strong electromagnetic fields 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 Customer Support Help Desk.
- 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.



Troubleshooting

If you think there is a problem with the camera, first check the following. If the issue persists, contact a Customer Support Help Desk.

Power

Nothing happens when the ON/OFF button is pressed.

 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 useful life. Purchase a new battery pack.

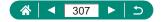
The battery pack is swollen.

 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 Customer Support Help Desk.

Shooting

Cannot shoot.

During playback, press the shutter button halfway.



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.

Movie recording or playback suddenly stops.

- For [E4K 2007] or [E4K 2007], use a UHS-I memory card with a UHS Speed Class 3 or higher.
- For High Frame Rate movies, use a UHS-I memory card with a UHS Speed Class 3 or higher.
- For playback of 4K time-lapse movies (1), Full HD time-lapse movies (2), or Hybrid Auto movies (3), use a memory card with a read speed of approx. (1) 300 Mbps or (2)/(3) 90 Mbps or faster. Using a slow memory card may cause movie playback in progress to stop.

[I] is displayed and the camera turns off automatically.

 After extended shooting, or shooting in hot weather, () is displayed to indicate that the camera will soon turn off automatically. In this case, turn off the camera and allow it to cool down.

Continuous shooting is much slower.

 Under high temperatures, continuous shooting may be much slower. In this case, turn off the camera and allow it to cool down.

[₱₭] is displayed.

- [P\$] may be displayed after repeated movie recording under the following settings, or if you keep the camera standing by for movie recording over extended periods.
 - 4K movie recording
 - High frame rate movie recording
 - Movie recording while connected via Wi-Fi

The camera turns off automatically in approx. 3 min. if you continue recording while [呼笑] is displayed. The camera may also turn off automatically while standing by for movie recording when [呼笑] is displayed. When [呼笑] is displayed, turn off the camera and allow it to cool down.



Image quality is poor.

 Image quality may decline if you shoot while the camera's internal temperature is high.

Shots are out of focus.

- Confirm that unneeded functions such as macro are deactivated.
- Try shooting with AF lock.

No AF points are displayed and the camera does not focus when the shutter button is pressed halfway.

 To have AF points displayed and the camera focus correctly, try composing the shot with higher-contrast subject areas centered before pressing the shutter button halfway (or pressing it halfway repeatedly).

Subjects in shots look too dark.

- Adjust brightness by using exposure compensation.
- Use AE lock or spot metering.

Subjects look too bright, highlights are washed-out.

- Adjust brightness by using exposure compensation.
- Use AE lock or spot metering.
- Reduce the lighting on subjects.

Shots look too dark despite the flash firing.

- Adjust brightness by using flash exposure compensation or changing the flash output level.
- Increase the ISO speed.

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

 Adjust brightness by using flash exposure compensation or changing the flash output level.

Recording Movies

Subjects look distorted.

• Subjects that pass in front of the camera quickly may look distorted.



👞 Wi-Fi

Cannot access the Wi-Fi menu by pressing the ((p)) button.

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

Cannot connect to the access point.

 Confirm that the access point channel is set to a channel supported by the camera. Note that instead of auto channel assignment, it is advisable to specify a supported channel manually. For details on supported channels, check the Canon website.

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

- Do not use the camera near sources of Wi-Fi signal interference such as microwave ovens 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.

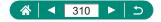
Cannot pair with a smartphone via Bluetooth.

 Pairing with a smartphone via Bluetooth is not possible if you are using Wireless Remote Control BR-E1.

Error Codes

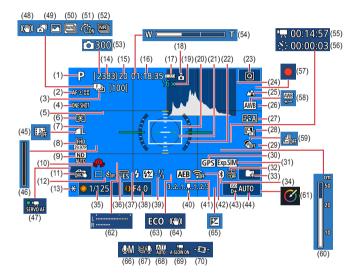
Error codes (Errxx) and recommended responses are displayed.

- Error codes are displayed if camera problems occur. If the problem persists, write down the error code (Errxx) and contact a Customer Support Help Desk.
- Error numbers for wireless communication errors (Errxx) are shown in the upper right of the ⁽(𝕶)) [Wi-Fi/Bluetooth connection] screen. Press the ★ button to view error details on information display screens.



On-Screen Information

🗣 When Shooting



- (1) Shooting mode, Scene icon
- (2) AF method
- (3) Focus bracketing/Number of shots
- (4) AF operation
- (5) Grid lines
- (6) Metering mode
- (7) Image quality
- (8) Movie recording quality

- (9) ND filter
- (10) Camera shake warning
- (11) Touch Shutter
- (12) Drive mode/Self-timer
- (13) AE lock
- (14) Recordable shots/Recordable in the s

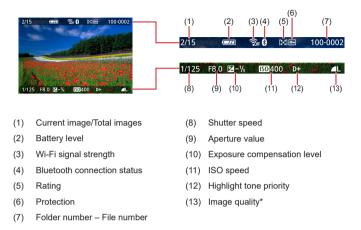


- Maximum continuous shots/ Maximum continuous i rolls (fixed at 1)
- (16) Movie recording time available
- (17) Battery level
- (18) Movie orientation indicator
- (19) Zoom magnification, Digital tele-converter
- (20) AF point
- (21) Spot AE point frame
- (22) Electronic level
- (23) Quick Control
- (24) Histogram
- (25) Focus range
- (26) White balance
- (27) Picture Style
- (28) Auto Lighting Optimizer
- (29) Creative filters
- (30) Bluetooth smartphone connection, GPS acquisition status
- (31) Exposure simulation
- (32) Date stamp
- (33) Create folder
- (34) Bluetooth connection status
- (35) Shutter speed
- (36) Electronic shutter
- (37) Flash mode/FE lock
- (38) Aperture value
- (39) Flash exposure compensation/ Flash output level
- (40) Exposure level indicator
- (41) AEB

- (42) Wi-Fi signal strength
- (43) Highlight tone priority
- (44) ISO speed
- (45) Video snapshot
- (46) Mindicator
- (47) Movie Servo AF
- (48) Intelligent IS
- (49) Hybrid Auto mode/Digest type
- (50) RAW burst mode
- (51) I Pre-shooting
- (52) Multi Shot Noise Reduction
- (53) 🖉 Number of shots
- (54) Zoom bar
- (55) Time required
- (56) 🖑 Interval
- (57) Self-portrait movie
- (58) White balance correction
- (59) Miniature effect movie
- (60) MF indicator
- (61) Creative Assist
- (62) Audio recording level meter
- (63) Eco mode
- (64) Image stabilization
- (65) Exposure compensation
- (66) Audio recording mode
- (67) Wind filter
- (68) Attenuator
- (69) Auto slow shutter
- (70) Auto level

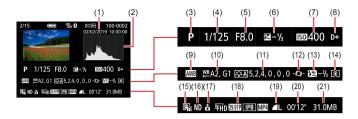


During Playback



*Images captured with a creative filter, RAW image processing, resizing, Creative Assist, cropping, or red-eye correction applied are labeled with [.]. Cropped images are labeled with [1].





- (1) Shooting date/time
- (2) Histogram
- (3) Shooting mode/RAW burst mode
- (4) Shutter speed
- (5) Aperture value
- (6) Exposure compensation level
- (7) ISO speed
- (8) Highlight tone priority
- (9) White balance
- (10) White balance correction
- (11) Picture Style setting details

- (12) Auto level
- (13) Flash exposure compensation/ Multi Shot Noise Reduction
- (14) Metering mode
- (15) Auto Lighting Optimizer
- (16) ND filter
- (17) Movie rotation info
- (18) Movie recording size
- (19) Image quality*
- (20) Movie recording time/ RAW burst mode
- (21) File size

*Images captured with a creative filter, RAW image processing, resizing, Creative Assist, cropping, or red-eye correction applied are labeled with [...]. Cropped images are labeled with [...].

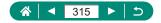


Precautions for Wireless Features

- Before goods or technologies in the camera regulated by the Foreign Exchange and Foreign Trade Act are exported (which includes bringing them outside Japan or showing them to non-residents in Japan), export or service transaction permission may be required from the Japanese government.
- Because this product includes American encryption items, it falls under U.S. Export Administration Regulations, and cannot be exported to or brought into a country under U.S. trade embargo.
- Be sure to make notes of the Wi-Fi settings you use. The wireless settings saved to this product may change or be erased due to incorrect operation of the product, the effects of radio waves or static electricity, or accident or malfunction. Please note that Canon accepts no responsibility for direct or indirect damages or loss of earnings resulting from a degradation or disappearance of content.
- When transferring ownership, disposing of the product, or sending it for repair, restore the default wireless settings by erasing any settings you have entered.
- Canon will not make compensation for damages resulting from loss or theft of the product.

Canon accepts no responsibility for damages or loss resulting from unauthorized access or use of target devices registered on this product due to loss or theft of the product.

 Be sure to use the product as directed in this guide.
 Be sure to use the wireless 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.



Security Precautions

Because Wi-Fi uses radio waves to transmit signals, security precautions more stringent than when using a LAN cable are required. Keep the following points in mind when using Wi-Fi.

Only use networks you are authorized to use. This product searches for Wi-Fi networks in the vicinity and displays the results on the screen. Networks you are not authorized to use (unknown networks) may also be displayed. However, attempting to connect to or using such networks could be regarded as unauthorized access. Be sure to use only networks you are authorized to use, and do not attempt to connect to other unknown networks.

If security settings have not been properly set, the following problems may occur.

- Transmission monitoring Third parties with malicious intent may monitor Wi-Fi transmissions and attempt to acquire the data you are sending.
- Unauthorized network access
 Third parties with malicious intent may gain unauthorized access to
 the network you are using to steal, modify, or destroy information.
 Additionally, you could fall victim to other types of unauthorized access
 such as impersonation (where someone assumes an identity to gain
 access to unauthorized information) or springboard attacks (where
 someone gains unauthorized access to your network as a springboard
 to cover their tracks when infiltrating other systems).

To prevent these types of problems from occurring, be sure to thoroughly secure your Wi-Fi network.

Only use this camera's Wi-Fi function with a proper understanding of Wi-Fi security, and balance risk and convenience when adjusting security settings.



Third-Party Software

AES-128 Library

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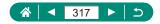
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 KSDK Peripheral Drivers, Flash / NVM, KSDK H/W Abstraction Layer (HAL)

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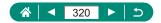


Personal Information and Security Precautions

If personal information and/or Wi-Fi security settings, such as passwords, etc., are saved on the camera, please be aware that such information and settings may still remain in the camera.

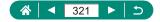
When transferring the camera to another person, disposing of it, or sending it for repair, be sure to take the following measures to prevent the leakage of such information and settings.

Erase registered Wi-Fi security information by choosing (
 ⁽
 ⁽⁾
 ⁽
 ⁽⁾
 ⁽



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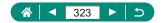


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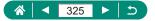
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