

#### **Instruction Manual**

Instruction manuals (PDF files) and software can be downloaded from the Canon Web site (p.4, 445).

#### www.canon.com/icpd



## Introduction

The EOS REBEL SL2 or EOS 200D is a digital single-lens reflex camera featuring a fine-detail CMOS sensor with approx. 24.2 effective megapixels, DIGIC 7, high-precision and high-speed 9-point AF, maximum continuous shooting speed of approx. 5.0 shots/sec., Live View shooting, Full High-Definition (Full HD) movie shooting, and Wi-Fi/ NFC/Bluetooth (wireless communication) function.

#### Before Starting to Shoot, Be Sure to Read the Following

To avoid botched pictures and accidents, first read the "Safety Precautions" (p.22-24) and "Handling Precautions" (p.25-27). Also, read this manual carefully to ensure that you use the camera correctly.

# Refer to This Manual while Using the Camera to Further Familiarize Yourself with the Camera

While reading this manual, take a few test shots and see how they come out. You can then better understand the camera. Be sure to store this manual safely, too, so that you can refer to it again when necessary.

#### Testing the Camera Before Use and Liability

After shooting, play images back and check whether they have been properly recorded. If the camera or memory card is faulty and the images cannot be recorded or downloaded to a computer, Canon cannot be held liable for any loss or inconvenience caused.

#### Copyrights

Copyright laws in your country may prohibit the use of your recorded images or copyrighted music and images with music on the memory card for anything other than private enjoyment. Also be aware that certain public performances, exhibitions, etc. may prohibit photography even for private enjoyment.

## Item Check List

Before starting, check that all the following items are included with your camera. If anything is missing, contact your dealer.



Camera (with eyecup and body cap)



Strap



Battery Charger

Battery Pack LP-E17 (with protective cover)

LC-E17/LC-E17E\*

\* Battery Charger LC-E17 or LC-E17E is provided. (The LC-E17E comes with a power cord.)

- The camera does not come with the Software CD-ROM, an interface cable or HDMI cable.
- The Instruction Manuals are listed on the next page.
- If you purchased a Lens Kit, check that the lenses are included.
- Be careful not to lose any of the above items.
- For items sold separately, see the System Map (p.400).
- When you need Lens Instruction Manuals, download them from the Canon Web site (p.4).

The Lens Instruction Manuals (PDF files) are for lenses sold individually. Note that when purchasing the Lens Kit, some of the accessories included with the lens may not match those listed in the Lens Instruction Manual.



## Instruction Manuals



# Camera and Wi-Fi (Wireless Communication) Function Basic Instruction Manual

The booklet is the Basic Instruction Manual. More detailed Instruction Manuals (PDF files) can be downloaded from the Canon Web site.

#### Downloading and Viewing the Instruction Manuals (PDF Files)

#### Download the Instruction Manuals (PDF files).

- Connect to the Internet and access the following Canon Web site.
   www.canon.com/icpd
- Select your country or region of residence and download the Instruction Manuals.

#### Instruction Manuals Available for Download

- Camera Instruction Manual
- Wi-Fi (Wireless Communication) Function Instruction
  Manual
- Camera and Wi-Fi (Wireless Communication) Function
   Basic Instruction Manual
- Lens Instruction Manuals
- Software Instruction Manuals

#### 2 View the Instruction Manuals (PDF files).

- Double-click the downloaded Instruction Manual (PDF file) to open it.
- To view the Instruction Manuals (PDF files), an Adobe PDF viewing software such as Adobe Acrobat Reader DC (most recent version recommended) is required.
- Adobe Acrobat Reader DC can be downloaded for free from the Internet.
- To learn how to use PDF viewing software, refer to the software's Help section, etc.

The Instruction Manuals (PDF files) can also be downloaded using the QR code.



www.canon.com/icpd

- A software application is required to read the QR code.
- Select your country or region of residence, then download the Instruction Manuals.
- The QR code can also be displayed under [ 4: Manual/software URL].

## **Quick Start Guide**



#### Insert the battery (p.38).

Upon purchase, charge the battery to start using (p.36).



#### Insert the card (p.38).

• With the card's label facing toward the back of the camera, insert it into the card slot.



#### Attach the lens (p.48).

Align the lens's white or red mount index with the camera's mount index of the same color to attach the lens.



#### Set the lens's focus mode switch to <AF> (p.48).



Set the power switch to <ON>, then set the Mode Dial to  $<\overline{(\Delta^+)}>$ (Scene Intelligent Auto) (p.72).

 All the necessary camera settings will be set automatically.



#### Flip out the LCD monitor (p.41).

When the LCD monitor displays the date/time/zone setting screen, see page 44.



#### Focus on the subject (p.51).

- Look through the viewfinder and aim the viewfinder center over the subject.
- Press the shutter button halfway, and the camera will focus on the subject.
- The built-in flash will be raised as necessary.



#### Take the picture (p.51).

Press the shutter button completely to take the picture.



#### Review the picture.

- The image just captured will be displayed for approx. 2 sec. on the LCD monitor.
- To display the image again, press the < ►> button (p.110).
- To shoot while looking at the LCD monitor, see "Live View Shooting" (p.195).
- To view the images captured so far, see "Image Playback" (p.110).
- To delete images, see "Erasing Images" (p.339).

## **Compatible Cards**

The following cards can be used with the camera regardless of capacity. If the card is new or was previously formatted (initialized) by another camera or computer, format the card with this camera (p.68).

#### SD/SDHC\*/SDXC\* memory cards

\* UHS-I cards supported.

#### **Cards that Can Record Movies**

When shooting movies, use a large-capacity card with a writing/reading speed class at least as high as shown in the following table.

Movie Recording Size (p.245)		Recording Formats	
		MOV	MP4
A	LL-I*	UHS Speed Class 3 or faster	-
IPB (Standard)	FHD: 59.94P 50.00P	-	SD Speed Class 10 or faster
	Other than above	-	SD Speed Class 6 or faster
IPB (Light)		-	SD Speed Class 4 or faster

\* Image-recording quality that is automatically set for time-lapse movie shooting (p.254).

- If you use a slow-writing card when shooting movies, the movie may not be recorded properly. Also, if you play back a movie on a card with a slow reading speed, the movie may not be played back properly.
- To check the card's writing/reading speed, refer to the card manufacturer's Web site.



In this manual, "card" refers to SD memory cards, SDHC memory cards, and SDXC memory cards.

The camera does not come with a card for recording photos/ movies. Please purchase it separately.

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## **Conventions Used in this Manual**

#### Icons in this Manual

< ১৯৬% >	: Indicates the Main Dial.
< <b>▲</b> >< <b>♥</b> >< <b>◀</b> >< <b>▶</b> >	: Indicate up, down, left, and right on the < > cross keys respectively.
<set></set>	: Indicates the Setting button.
@4/@6/@10/@16	: Indicates that each function remains active for approx. 4 sec., 6 sec., 10 sec., or 16 sec. after you let go of the button.

\* In addition to the above, the icons and symbols used on the camera's buttons and displayed on the LCD monitor are also used in this manual when discussing relevant operations and functionality.

MENU	: Indicates a function that can be changed by pressing the <pre><menu></menu></pre> button to change its settings.
☆	: This icon at the upper right of the page titles indicates that the function is available only in the Creative Zone modes (p.31).
(p.**)	: Reference page numbers for more information.
0	: Warning to prevent shooting problems.
	: Supplemental information.
	: Tips or advice for better shooting.
?	: Troubleshooting advice.

# Basic Assumptions for Operational Instructions and Notes on Sample Photos

- All operations described in this manual assume that the power switch is set to <0N> (p.42).
- It is assumed that all the menu settings and Custom Functions are set to their defaults.
- The illustrations in this manual describe the camera attached with the EF-S18-55mm f/4-5.6 IS STM lens as an example.
- The sample photos displayed on the camera and used in this manual are only for illustrative purposes to show the effects more clearly.

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## Safety Precautions

The following precautions are provided to prevent harm or injury to yourself and others. Make sure to thoroughly understand and follow these precautions before using the product.

#### If you experience any malfunctions, problems, or damage to the product, contact the nearest Canon Service Center or the dealer from whom you purchased the product.

## Marnings: Follow the warnings below. Otherwise, death or serious injuries may result.

- To prevent fire, excessive heat, chemical leakage, explosions, and electrical shock, follow the safeguards below:
  - Do not use any batteries, power sources, or accessories not specified in the Instruction Manual. Do not use any home-made or modified batteries, or the product if it is damaged.
  - Do not short-circuit, disassemble, or modify the battery. Do not apply heat or solder to the battery. Do not expose the battery to fire or water. Do not subject the battery to strong physical shock.
  - · Do not insert the battery's plus and minus ends incorrectly.
  - Do not recharge the battery in temperatures outside the allowable charging (working) temperature range. Also, do not exceed the recharge time indicated in the Instruction Manual.
  - Do not insert any foreign metallic objects into the electrical contacts of the camera, accessories, connecting cables, etc.
- When disposing of a battery, insulate the electrical contacts with tape. Contact with other metallic objects or batteries may cause a fire or an explosion.
- If excessive heat, smoke, or fumes are emitted when recharging the battery, immediately unplug the battery charger from the power outlet to stop recharging. Otherwise, it may cause a fire, heat damage, or electrical shock.
- If the battery leaks, changes color, deforms, or emits smoke or fumes, remove it immediately. Be careful not to get burned in the process. It may cause a fire, electrical shock or burns if you keep using it.
- Prevent any battery leakage from contacting your eyes, skin, and clothing. It can cause blindness or skin problems. If the battery leakage comes in contact with your eyes, skin, or clothing, flush the affected area with lots of clean water without rubbing it. See a physician immediately.
- Do not leave any cords near a heat source. It can deform the cord or melt the insulation and cause a fire or electrical shock.
- Do not hold the camera in the same position for long periods of time. Even if the camera does not feel too hot, prolonged contact with the same body part may cause skin redness or blistering due to low-temperature contact burns. Using a tripod is recommended when using the camera in very hot places or for people with circulation problems or poor skin sensation.
- Do not fire the flash at anyone driving a car or other vehicle. It may cause an accident.

- When the camera or accessories are not in use, make sure to remove the battery, and disconnect the power plug and connecting cables from the equipment before storing. This is to prevent electrical shock, excessive heat, fire, and corrosion.
- Do not use the equipment where there is flammable gas. This is to prevent an explosion or a fire.
- If you drop the equipment and the casing breaks open to expose the internal parts, do not touch the exposed internal parts. There is a possibility of an electrical shock.
- Do not disassemble or modify the equipment. High-voltage internal parts can cause electrical shock.
- Do not look at the sun or an extremely bright light source through the camera or lens. Doing so may damage your vision.
- Keep equipment out of the reach of children and infants, including when in use. Straps
  or cords may accidentally cause choking, electrical shock, or injury. Choking or injury
  may also occur if a child or infant accidentally swallows a camera part or accessory. If
  a child or infant swallows a part or accessory, consult a physician immediately.
- Do not use or store the equipment in dusty or humid places. Likewise, keep the battery
  away from metallic items and store it with its protective cover attached to prevent shortcircuit. This is to prevent fire, excessive heat, electrical shock, and burns.
- Before using the camera inside an airplane or hospital, check if it is allowed. Electromagnetic waves emitted by the camera may interfere with the plane's instruments or the hospital's medical equipment.
- To prevent a fire and electrical shock, follow the safeguards below:
  - · Always insert the power plug all the way in.
  - · Do not handle a power plug with wet hands.
  - When unplugging a power plug, grasp and pull the plug instead of the cord.
  - Do not scratch, cut, or excessively bend the cord or put a heavy object on the cord. Also do not twist or tie the cords.
  - · Do not connect too many power plugs to the same power outlet.
  - Do not use a cord whose wire is broken or insulation is damaged.
- Unplug the power plug periodically and clean off the dust around the power outlet with a dry cloth. If the surrounding is dusty, humid, or oily, the dust on the power outlet may become moist and short-circuit the outlet, causing a fire.
- Do not connect the battery directly to an electrical outlet or a car's cigarette lighter outlet. The battery may leak, generate excessive heat or explode, causing fire, burns, or injuries.
- A thorough explanation of how to use the product by an adult is required when the product is used by children. Supervise children while they are using the product. Incorrect usage may result in electrical shock or injury.
- Do not leave a lens or lens-attached camera in the sun without the lens cap attached. Otherwise, the lens may concentrate the sun's rays and cause a fire.
- Do not cover or wrap the product with a cloth when using it. Doing so may trap heat within and cause the casing to deform or catch fire.
- Be careful not to get the camera wet. If you drop the product in the water or if water or metal get inside the product, promptly remove the battery. This is to prevent fire, electrical shock, and burns.
- Do not use paint thinner, benzene, or other organic solvents to clean the product. Doing so may cause fire or a health hazard.



- Do not use or store the product in a high-temperature location such as inside a car under the hot sun. The product may become hot and cause burns. Doing so may also cause battery leakage or explosion, which will degrade the performance or shorten the life of the product.
- Do not carry the camera around when it is attached to a tripod. Doing so may cause an injury or an accident. Also make sure the tripod is sturdy enough to support the camera and lens.
- Do not leave the product in a low-temperature environment for an extended period of time. The product will become cold and may cause injury when touched.
- Do not fire the flash near the eyes. It may hurt the eyes.

## Handling Precautions

#### Camera Care

- This camera is a precision instrument. Do not drop it or subject it to physical shock.
- The camera is not waterproof and cannot be used underwater. If you
  accidentally drop the camera into water, promptly consult the nearest Canon
  Service Center. Wipe off any water droplets with a dry and clean cloth. If the
  camera has been exposed to salty air, wipe it with a clean, well-wrung wet
  cloth.
- Never leave the camera near anything having a strong magnetic field such as a magnet or electric motor. Also, avoid using or leaving the camera near anything emitting strong radio waves, such as a large antenna. Strong magnetic fields can cause camera misoperation or destroy image data.
- Do not leave the camera in excessive heat, such as in a car in direct sunlight. High temperatures can cause the camera to malfunction.
- The camera contains precision electronic circuitry. Never attempt to disassemble the camera yourself.
- Do not block the mirror operation with your finger, etc. Doing so may cause a malfunction.
- Use only a commercially-available blower to blow away dust when it adheres to the lens, viewfinder, reflex mirror, focusing screen, etc. Do not use cleaners that contain organic solvents to clean the camera body or lens. For stubborn dirt, take the camera to the nearest Canon Service Center.
- Do not touch the camera's electrical contacts with your fingers. This is to prevent the contacts from corroding. Corroded contacts can cause camera malfunction.
- If the camera is suddenly brought in from the cold into a warm room, condensation may form on the camera and internal parts. To prevent condensation, first put the camera in a sealed plastic bag and let it adjust to the warmer temperature before taking it out of the bag.

- If condensation forms on the camera, do not use the camera. This is to avoid damaging the camera. If there is condensation, remove the lens, card and battery from the camera, and wait until condensation has evaporated before using the camera.
- If the camera will not be used for an extended period, remove the battery and store the camera in a cool, dry, well-ventilated location. Even while the camera is in storage, press the shutter button a few times once in a while to check that the camera is still working.
- Avoid storing the camera where there are chemicals that result in rust and corrosion such as in a chemical lab.
- If the camera has not been used for an extended period, test all its functions before using it. If you have not used the camera for some time or if there is an important shoot such as a foreign trip coming up, have the camera checked by your nearest Canon Service Center or check the camera yourself and make sure it is working properly.
- If you repeat continuous shooting or perform Live View shooting or movie shooting for a prolonged period, the camera may become hot. This is not a malfunction.
- If there is a bright light source inside or outside the image area, ghosting may occur.

#### LCD Monitor

- Although the LCD monitor is manufactured with very high precision technology with over 99.99% effective pixels, 0.01% or fewer of the pixels may be dead, and there may also be spots of black, red, or other colors. Dead pixels are not a malfunction. They do not affect the images recorded.
- If the LCD monitor is left on for a prolonged period, screen burn-in may occur where you see remnants of what was displayed. However, this is only temporary and will disappear when the camera is left unused for a few days.
- The LCD monitor display may seem slightly slow in low temperatures, or look black in high temperatures. It will return to normal at room temperature.

#### Cards

To protect the card and its recorded data, note the following:

- Do not drop, bend, or wet the card. Do not subject it to excessive force, physical shock, or vibration.
- Do not touch the card's electronic contacts with your fingers or anything metallic.
- Do not affix any stickers, etc. on the card.
- Do not store or use the card near anything that has a strong magnetic field, such as a TV set, speakers, or magnets. Also avoid places prone to having static electricity.
- Do not leave the card in direct sunlight or near a heat source.
- Store the card in a case.
- Do not store the card in hot, dusty, or humid locations.

#### Smudges Adhering to the Front of the Sensor

Besides dust entering the camera from outside, in rare cases, lubricant from the camera's internal parts may adhere to the front of the sensor. If smudges are visible on the images, having the sensor cleaned by a Canon Service Center is recommended.

#### Lens

After detaching the lens from the camera, put down the lens with the rear end up and attach the rear lens cap to avoid scratching the lens surface and electrical contacts. Contacts



## Nomenclature



\* Used for Wi-Fi connections via the NFC function.



#### Mode Dial

The Mode Dial includes the Basic Zone modes and Creative Zone modes.



#### **Basic Zone**

All you do is press the shutter button. The camera sets everything to suit the subject or scene for shooting.

- (p.72) Scene Intelligent Auto
- 5 : Flash Off (p.77)
- CA : Creative Auto (p.78)

#### SCN: Special scene (p.85)

Þ	Portrait (p.87)	٣f	Food (p.93)
İİİ	Group Photo (p.88)	5	Candlelight (p.94)
*	Landscape (p.89)	2	Night Portrait (p.95)
×	Sports (p.90)	ш,	Handheld Night Scene (p.96)
÷.	<b>Kids</b> (p.91)	ä	HDR Backlight Control (p.97)
ŝ.	Close-up (p.92)		

#### Creative filters (p.100)

ß	Grainy B/W (p.102)	₫	Miniature effect (p.103)
2	Soft focus (p.102)	HDR	HDR art standard (p.103)
1	Fish-eye effect (p.102)	HDR	HDR art vivid (p.103)
1	Water painting effect (p.103)	KHDR	HDR art bold (p.104)
đ	Toy camera effect (p.103)	HDR	HDR art embossed (p.104)



#### **Creative Zone**

These modes give you more control for shooting various subjects as desired.

- P : Program AE (p.162)
- Tv : Shutter-priority AE (p.164)
- Av : Aperture-priority AE (p.166)
- M : Manual exposure (p.169)

#### Quick Control Screen

(Example in the <P> mode with [ : Shooting screen: Standard] set (p.58))



• The display will show only the settings currently applied.



The display will show only the settings currently applied.

#### Battery Charger LC-E17

Charger for Battery Pack LP-E17 (p.36).



#### IMPORTANT SAFETY INSTRUCTIONS-SAVE THESE INSTRUCTIONS. DANGER-TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS.

For connection to a supply not in the U.S.A., use an attachment plug adapter of the proper configuration for the power outlet, if needed.

#### Battery Charger LC-E17E

Charger for Battery Pack LP-E17 (p.36).





# Getting Started and Basic Camera Operations

This chapter describes preparatory steps before you start shooting and the basic camera operations.



#### Attaching the Provided Strap

Pass the end of the strap through the camera's strap mount eyelet from the bottom. Then pass it through the strap's buckle as shown in the illustration. Pull the strap to take up any slack and make sure the strap will not loosen from the buckle.

The eyepiece cover is also attached to the strap (p.386).



Eyepiece cover

## Charging the Battery



# Canon 2



Full-charge lamp Charge lamp

LC-E17E



## Remove the protective cover.

• Detach the protective cover provided with the battery.

## Attach the battery.

- As shown in the illustration, attach the battery securely to the charger.
- To detach the battery, follow the above procedure in reverse.

#### Recharge the battery. For LC-E17

 As shown by the arrow, flip out the battery charger's prongs and insert the prongs into a power outlet.

## For LC-E17E

- Connect the power cord to the charger and insert the plug into a power outlet.
- Recharging starts automatically and the charge lamp lights up in orange.
- When the battery is fully recharged, the full-charge lamp will light up in green.
- It takes approx. 2 hours to fully recharge a completely exhausted battery at room temperature (23°C / 73°F). The time required to recharge the battery will vary greatly depending on the ambient temperature and the battery's remaining capacity.
- For safety reasons, recharging in low temperatures (5°C 10°C / 41°F - 50°F) will take longer (up to approx. 4 hr.).
### Tips for Using the Battery and Charger

- Upon purchase, the battery is not fully charged. Charge the battery before use.
- Recharge the battery on the day before or on the day it is to be used.

Even during storage, a charged battery will gradually drain and lose its capacity.

- After recharging the battery, detach it and disconnect the charger from the power outlet.
- When not using the camera, remove the battery.

If the battery is left in the camera for a prolonged period, a small amount of power current will keep being released, resulting in excess discharge and shorter battery life. Store the battery with the protective cover (provided) attached. Storing the battery when it is fully charged may lower the battery performance.

• The battery charger can also be used in foreign countries. The battery charger is compatible with a 100 V AC to 240 V AC 50/ 60 Hz power source. If necessary, attach a commercially-available plug adapter for the respective country or region. Do not attach any portable voltage transformer to the battery charger. Doing so may damage the battery charger.

 If the battery becomes exhausted quickly even after having been fully charged, the battery has reached the end of its service life.

Check the battery's recharge performance (p.380) and purchase a new battery.

- After disconnecting the charger's power plug, do not touch the prongs for approx. 5 sec.
  - Do not charge any battery other than a Battery Pack LP-E17.
  - Battery Pack LP-E17 is dedicated to Canon products only. Using it with an incompatible battery charger or product may result in malfunction or accidents for which Canon cannot be held liable.

### Installing and Removing the Battery and Card

Load a fully charged Battery Pack LP-E17 into the camera. The camera can use an SD, SDHC, or SDXC memory card (sold separately). UHS-I Speed Class SDHC and SDXC memory cards can also be used. The captured images are recorded onto the card.

# Make sure the card's write-protect switch is set upward to enable writing/erasing.

### Installing the Battery and Card





Write-protect switch





### Open the cover.

 Slide the lever as shown by the arrows and open the cover.

### Insert the battery.

- Insert the end with the battery contacts.
- Insert the battery until it locks in place.

### Insert the card.

 As shown by the illustration, face the card's label side toward the back of the camera and insert it until it clicks in place.

### Close the cover.

- Press the cover until it snaps shut.
- When you set the power switch to <ON>, the number of possible shots (p.43) will be displayed on the LCD monitor.

After opening the card slot/battery compartment cover, be careful not to swing it back any further. Otherwise, the hinge may break.

- The number of possible shots varies depending on the remaining capacity of the card, image-recording quality, ISO speed, etc.
  - Setting [1: Release shutter without card] to [Disable] will prevent you from forgetting to insert a card before shooting (p.287).

### **Removing the Battery and Card**



-7





Set the power switch to <OFF> (p.42).

#### Open the cover.

- Make sure the access lamp is off, then open the cover.
- If [Recording...] is displayed, close the cover.

### Remove the battery.

- Press the battery lock lever as shown by the arrow and remove the battery.
- To prevent short-circuiting, be sure to attach the provided protective cover (p.36) to the battery.

### Remove the card.

- Gently push in the card, then let go to eject it.
- Pull the card straight out.

### Close the cover.

Press the cover until it snaps shut.

- When the access lamp is lit or blinking, it indicates that images are being written to, read from, or erased from the card, or data is being transferred. Do not open the card slot/battery compartment cover. Also, never do any of the following while the access lamp is lit or blinking. Otherwise, it can damage the image data, card, or camera.
  - · Removing the card.
  - · Removing the battery.
  - · Shaking or banging the camera around.
  - Unplugging and connecting a power cord (when household power outlet accessories (sold separately, p.381) are used).
  - If the card already contains recorded images, the image number may not start from 0001 (p.292).
  - If a card-related error message is displayed on the LCD monitor, remove and reinsert the card. If the error persists, use a different card.
     If you can transfer images on the card to a computer, transfer all the images and then format the card with the camera (p.68). The card may then return to normal.
  - Do not touch the card's contacts with your fingers or metal objects. Do not expose the contacts to dust or water. If smudges adhere to the contacts, contact failure may result.
  - Multimedia cards (MMC) cannot be used. (Card error will be displayed.)

### Using the LCD Monitor

After you flip out the LCD monitor, you can set menu functions, use Live View shooting, shoot movies, or play back photos and movies. You can change the direction and angle of the LCD monitor.







### Rotate the LCD monitor.

- When the LCD monitor is swung out, you can rotate it up, down, or over 180° to face the subject.
- The indicated angle is only approximate.



### Face it toward you.

 Normally, use the camera with the LCD monitor facing you.

- Be careful not to forcefully rotate the LCD monitor, putting much power on the rotating axis (hinge).
  - When a cable is connected to a camera terminal, the rotation angle range of the flipped out LCD monitor will be limited.
- When not using the camera, close the LCD monitor with the screen facing inward. You can protect the screen.
  - During Live View shooting or movie shooting, facing the LCD monitor toward the subject will display a mirror image on the screen (right/left reversed).

### Turning on the Power

If you turn on the power switch and the date/time/zone setting screen appears, see page 44 to set the date/time/zone.



- <**!**,...> : The camera turns on. You can shoot movies (p.234).
- <0N> : The camera turns on. You can shoot still photos.
- <OFF> : The camera is turned off and does not function. Set the power switch to this position when not using the camera.

### Automatic Sensor Cleaning

- Whenever you set the power switch to <ON> or <OFF>, sensor cleaning will be performed automatically. (A small sound may be heard.) During the sensor cleaning, the LCD monitor will display < <sup>†</sup>¬+ >.
- Even during the sensor cleaning, if you press the shutter button halfway (p.51), cleaning operation will be stopped, and you can take a picture immediately.
- If you repeatedly turn the power switch <ON>/<OFF> at a short interval, the  $<_{t}$  icon may not be displayed. This is normal and not a malfunction

### MENU Auto Power Off

To save battery power, if the camera is not operated for a prolonged period, the power will turn off automatically after the time set under [ 12: Auto power off (p.288). To turn on the camera again, just press the shutter button halfway (p.51).



If you set the power switch to <OFF> while an image is being recorded to the card, [Recording...] will be displayed and the power will turn off after the recording finishes.

### Battery Level Indicator

When the power is turned on, the battery level will be indicated in one of the four levels.



- Battery level is sufficient.
- Battery level is low, but the camera can still be used.
- Battery will be exhausted soon. (Blinks)
  - ☐ : Recharge the battery.

#### Number of Possible Shots with Viewfinder Shooting

(Approx. number of shots)

Temperature	Room Temperature (23°C / 73°F)	Low Temperatures (0°C / 32°F)
No Flash	840	770
50% Flash Use	650	620

 The figures above are based on a fully-charged Battery Pack LP-E17, no Live View shooting, and CIPA (Camera & Imaging Products Association) testing standards.

- Doing any of the following will exhaust the battery faster:
  - · Pressing the shutter button halfway for a prolonged period.
  - · Activating the AF frequently without taking a picture.
  - · Using the lens's Image Stabilizer.
  - · Using the LCD monitor frequently.
  - Using the Wi-Fi function.
  - The number of possible shots may decrease depending on the actual shooting conditions.
  - The lens operation is powered by the camera's battery. Certain lenses may exhaust the battery faster than others.
  - For the number of possible shots with Live View shooting, see page 197.
  - See [**Y3: Battery info.**] to check the battery condition (p.380).

### MENU Setting the Date, Time, and Zone

When you turn on the power for the first time or if the date/time/zone have been reset, the date/time/zone setting screen will appear. Follow the steps below to set the time zone first. Set the camera to the time zone in which you currently live so that, when you travel, you can simply change the setting to the correct time zone for your destination, and the camera will automatically adjust the date/time.

Note that the date/time appended to recorded images will be based on this date/time setting. Be sure to set the correct date/time.









### Display the main tabs.

 Press the <MENU> button to display the main tabs.

### Under the [**¥**2] tab, select [Date/ Time/Zone].

- Press the <◄> <►> keys to select the [♥] tab, then press <SET>.
- Press the <◄> <►> keys to select the [¥2] tab.
- Press the <▲ > <▼ > keys to select [Date/Time/Zone], then press <SET >.

### Set the time zone.

- [London] is set by default.
- Press the <◀> <►> keys to select [Time zone], then press <SET>.
- For the menu function setting procedures, see pages 60-64.
  - In step 3, the time displayed in [Time zone] is the time difference compared to Coordinated Universal Time (UTC).

-

03/03/2017 one ondon	09:30:00	1
ondon		
Time zone		
03/03/2017	04:30:00	
Chicago	-06:00	J
New York	-05:00	r
Caracas	-04:00	l
Newfoundland	-03:30	I.
São Paulo	-03:00	

Zone/Time diff	ference	
03/03	/2017 0	4:15:00
Zone		
****		
Time differenc	e	- 05 : 15
•	OK	Cancel

Date	/Time/Z	one	
		(03/03/201	7)
0	3,03		4: 30 : 00
		mm/dd/y	L
<b>å</b> 1	New Yo	rk	
-	-	ОК	Cancel

Press <SET > again.

- Press the <▲> <▼> keys to select the time zone, then press <SET>.
- If your desired time zone is not listed, press the <MENU> button, then proceed to the next step to set it (with the time difference from the Coordinated Universal Time, UTC).
- To set the time difference from UTC, press the <◄> <►> keys to select a parameter (+/-/hour/minute) for [Time difference].
- Press <SET > so <↓> is displayed.
- Press the <▲> <▼> keys to set it, then press <SET>. (Returns to <□>.)
- After entering the time zone or time difference, press the < ◀> < ►> keys to select [OK], then press < SET>.

### Set the date and time.

- Press the <◀> <►> keys to select the number.
- Press <SET > so <↓> is displayed.
- Press the <▲> <▼> keys to set it, then press <SET>. (Returns to <□>.)

ite/Time	Zone		
Day	light savi	ng tim	e off
03,03	. 2017	04 :	30 : 00
	mm/d	d/yy	
New Y	ork		
1	OK		Cance

### Set the daylight saving time.

- Set it as necessary.
- Press the <◀> <►> keys to select
   [☆].
- Press <SET > so <↓> is displayed.
- Press the <▲> <▼> keys to select
   [\*], then press <SET>.
- When the daylight saving time is set to [读], the time set in step 4 will advance by 1 hour. If [禁] is set, the daylight saving time will be canceled and the time will go back by 1 hour.

Date/Time/J	Zone		
	(03/03/	2017)	
03,03	. 2017	04 : 30 : 00	
	mm/d	ld/yy	
ar New Yo	ork		ĽŰ,
-	ОК	Cancel	

### Exit the setting.

- Press the <◀> <►> keys to select [OK], then press <SET>.
- The date/time/zone and daylight saving time will be set and the menu will reappear.

The date/time/zone settings may be reset in the following cases. If this happens, set the date/time/zone again.

- When the camera is stored without the battery.
- · When the camera's battery becomes exhausted.
- When the camera is exposed to below freezing temperatures for a prolonged period.
- The set time and date will start from when you select [**OK**] in step 6.
  - Even if [**Ý**2: Auto power off] is set to [**4** min.] or less, the auto power off time will be approx. 6 min. when the [**Ý**2: Date/Time/Zone] setting screen is displayed.
  - After changing the time zone or time difference setting, check that the correct date and time are set.

### MENU Selecting the Interface Language







English	Norsk	Română
Deutsch	Svenska	Türkçe
Français	Español	العربية
Nederlands	Ελληνικά	ตาษาวิพย
Dansk	Русский	简体中文
Português	Polski	繁體中文
Suomi	Čeština	한국어
Italiano	Magyar	日本語
Українська		SET OF

### Display the main tabs.

 Press the <MENU> button to display the main tabs.

# Under the $[\mathbf{\Psi}2]$ tab, select [Language $\Im$ ].

- Press the <◀> <►> keys to select the [♥] tab, then press <SET>.
- Press the < ◀> < ►> keys to select the [♥2] tab.
- Press the <▲> <▼> keys to select the [Language (蒙)], then press <SET>.

### Set the desired language.

- Press the <▲> <▼> keys to select the language, then press <SET>.
- The interface language will change.

### Attaching and Detaching a Lens

The camera is compatible with all Canon EF and EF-S lenses. Note that you cannot use the EF-M lenses.

### Attaching a Lens





White index



### Remove the caps.

 Remove the rear lens cap and the body cap by turning them as shown by the arrows.

### Attach the lens.

 Align the lens's red or white index with the camera's index matching the same color. Turn the lens as shown by the arrow until it clicks in place.



# Set the lens's focus mode switch to <AF>.

- **AF**> stands for autofocus.
- **AF**> stands for manual focus.

### Remove the front lens cap.

#### Tips for Avoiding Smudges and Dust

- When changing lenses, do it quickly in a place with minimal dust.
- When storing the camera without a lens attached, be sure to attach the body cap to the camera.
- Remove dust on the body cap before attaching it.

### Zooming



### **Detaching the Lens**

# Turn the zoom ring on the lens with your fingers.

 Perform the zoom operation before focusing. Turning the zoom ring after achieving focus may throw off the focus.



### While pressing the lens release button, turn the lens as shown by the arrow.

- Turn the lens until it stops, then detach it.
- Attach the rear lens cap to the detached lens.
- Do not look at the sun directly through any lens. Doing so may cause loss of vision.
  - When attaching or detaching a lens, set the camera's power switch to <OFF>.
  - If the front part (focusing ring) of the lens rotates during autofocusing, do not touch the rotating part.
  - During viewfinder shooting or Live View shooting, if you use a TS-E lens (except the TS-E17mm f/4L or TS-E24mm f/3.5L II) and shift or tilt the lens or use an extension tube, the standard exposure may not be obtained or the exposure may be irregular.
  - If you use a TS-E lens, certain shift and rotation functions may be restricted, and attaching or detaching the lens may also be restricted.

### 📱 Angle of View

Since the image area is smaller than the 35mm film format, the effective angle of view of an attached lens will be equivalent to that of a lens with approx. 1.6x of the focal length indicated.



Image area (Approx.) (22.3 x 14.9 mm / 0.88 x 0.59 in.) 35mm film format (36 x 24 mm / 1.42 x 0.94 in.)

For instructions on how to use the lens, refer to the Lens Instruction Manual (p.4).

### **Basic Shooting Operations**

### Adjusting the Viewfinder Clarity



# Turn the dioptric adjustment knob.

- Turn the knob left or right so that the AF points in the viewfinder look sharp.
- If the knob is difficult to turn, remove the eyecup (p.386).

If the camera's dioptric adjustment still cannot provide a sharp viewfinder image, using E-series Dioptric Adjustment Lenses (sold separately) is recommended.

### Holding the Camera

To obtain sharp images, hold the camera still to minimize camera shake.



Horizontal shooting

Vertical shooting

- 1. Wrap your right hand around the camera grip firmly.
- 2. Hold the lens bottom with your left hand.
- 3. Rest your right index finger lightly on the shutter button.
- 4. Press your arms and elbows lightly against the front of your body.
- 5. To maintain a stable stance, place one foot slightly ahead of the other.
- 6. Press the camera against your face and look through the viewfinder.

To shoot while looking at the LCD monitor, see page 195.

### **Shutter Button**

The shutter button has two steps. You can press the shutter button halfway. Then you can further press the shutter button completely.



### **Pressing Halfway**

This activates autofocusing and the automatic exposure system that sets the shutter speed and aperture.

The exposure setting (shutter speed and aperture) is displayed in the viewfinder  $(^{\circ}_{0}4)$ .

While you press the shutter button halfway, the LCD monitor will turn off (p.301).



### **Pressing Completely**

This releases the shutter and takes the picture.

### Preventing Camera Shake

Hand-held camera movement during the moment of exposure is called camera shake. It can cause blurred pictures. To prevent camera shake, note the following:

- · Hold and steady the camera as shown on the preceding page.
- Press the shutter button halfway to autofocus, then slowly press the shutter button completely.
- If you press the shutter button completely without pressing it halfway first, or if you press the shutter button halfway and then press it completely immediately, the camera will take a moment before it takes the picture.
  - Even during menu display, image playback, or image recording, you can immediately go back to shooting-ready state by pressing the shutter button halfway.

### MENU Setting the Screen Display Level

You can set how information is displayed on the screen according to your preference. Change the settings as necessary.



### Display the main tabs.

Press the <MENU> button to display the main tabs.

### Select the [D:] tab.

Press the <◄> <►> keys of the cross keys to select the [□ ] tab, then press <SET>.

### **Shooting Screen**

You can select [Standard] or [Guided] (friendly display) for the Quick Control screen in viewfinder shooting. By default, it is set to [Guided].



Shooting screen Guided Standard Select [Shooting screen].

Select the display method.

### Sample Screens

#### <CA>: Guided



#### < Av >: Guided



#### <CA>: Standard



#### < Av >: Standard

Av			F5.6	aso A	UTO
-3	219	12	.13		
SSA)	AWB			e.	3
ONE SHOT	0 <sup>0</sup> 0000		Coff		IL.
0					514

In Creative Zone modes, when [Guided] is set, only the functions particular to the set shooting mode are displayed on the Quick Control screen. Note that items that cannot be set from the Quick Control screen when [Guided] is selected can be set via the menu screen (p.61).

### Menu Display

You can select the display type from [**Standard**] or [**Guided**]. If you set [**Guided**], main tab descriptions are provided when you press the <MENU> button. If you set [**Standard**], you proceed directly to the menu screen when you press the <MENU> button. By default, it is set to [**Guided**].





### Shooting Mode Guide

You can display the description of the shooting mode (mode guide) when switching the shooting mode during viewfinder shooting. By default, it is set to [**Enable**].



Lin step 3 and step 4, if you tap on [**OK**] or press the shutter button halfway, the description will disappear and the Quick Control screen will appear.

#### Feature Guide

When using Quick Control or setting menu items, you can display a brief description of functions and options (feature guide). By default, it is set to [**Enable**].



Image quality L and self-timer Syn Syn Single shooting Image quality L Image quality L Image quality L Image quality L Single shooting Image quality L

ON

ONE SHOT AF



The description will disappear when you tap on it or proceed with the operation.

OFF

### Shooting Tips

Shooting tips appear when [Shooting screen] is set to [Guided] (p.52) and the camera settings result in any of the following conditions. In Basic Zone modes, shooting tips appear regardless of the [Shooting screen] setting.

- You want to blur the background further (by setting the lowest aperture value in the < Av > mode).
- The image is likely to be overexposed.
- · The image is likely to be underexposed.
- · Camera shake is likely to occur (only in Basic Zone modes).



For more background blur Tip #1: Zoom in to the subject.

Tip #2: Move closer to the subject.

For more background blur

longer focal length.

Tip #4: More background blur is often

possible by using a "brighter" lens with a smaller f-number (max. aperture) and

5

( 5



- The shooting tips will appear.



- You can scroll up and down by tapping on the screen.
- You can also scroll by pressing the
   <▲> <▼> keys.

### Tap on [⊅].

- Shooting tips will disappear, and the screen in step 1 will reappear.
- You can also hide the shooting tips by pressing <SET >.

### **Q** Quick Control for Shooting Functions

You can directly select and set the shooting functions displayed on the LCD monitor with intuitive operations. This is called Quick Control.



### Press the <Q > button (أ10).

The Quick Control screen will appear.



### Set the desired functions.

- Press the < > cross keys to select a function.
- The settings of the selected function and Feature guide (p.56) will appear.
- Turn the < >> dial to change the setting.

### Basic Zone modes

### **Creative Zone modes**



### Take the picture.

- Press the shutter button completely to take the picture.
- The captured image will be displayed.

- For the functions settable in Basic Zone modes and their setting procedures, see page 107.
  - In steps 1 and 2, you can also tap on the LCD monitor to perform the operation (p.65).

### Sample Quick Control Screen

#### When [ 2: Shooting screen: Guided] is Set



#### When [Delta: Shooting screen: Standard] is Set



\* These functions cannot be set with Quick Control.

### MENU Menu Operations and Configurations

You can configure various settings with the menus such as the imagerecording quality, date/time, etc.



### Menu Screen

The menu tabs and items displayed vary depending on the shooting mode.

#### **Basic Zone modes**

#### Procting settings Procting sett

### Movie shooting



### Creative Zone modes



### Menu Setting Procedure

### When [Delta: Menu display: Guided] is Set



### Display the main tabs.

 When you press the <MENU> button, the main tabs and a description of the selected tab will appear.

### Select a main tab.

■ Each time you press the < ◀> < ►> keys of the cross keys, the main tab (group of functions) will switch.

### Display the menu screen.

- Press < SET > to display the menu screen.
- To return to the main tab screen, press the <MENU> button.

### Select a secondary tab.

- Press the <◀> <►> keys of the cross keys to select a secondary tab.
- For example, in this manual, the
   [1]4] tab refers to the screen displayed when the 1 (Shooting) tab's [4] is selected.

### Select the desired item.

 Press the <▲> <▼> keys of the cross keys to select the item, then press <SET>.

25 32		5H001
Image quality	dL.	
Drive mode	⊡@i#	
Image review	2 sec.	
Release shutter wi	thout card	ON
AF operation	ONE SHOT AF	
Lens electronic Mi	÷.	@+0/f
	M	ENU 5

		5H0074
Picture Style	Auto	
Long exp. noise re	duction	OFF
High ISO speed NR		.1
Dust Delete Data		
Live View shoot.	Enable	

Picture Style	6,6,6,0,&,0
EEAAuto	3,4,4,0,0,0
ESS Standard	3,4,4,0,0,0
ETP Portrait	2,4,4,0,0,0
ELLandscape	4,4,4,0,0,0
E Fine Detail	4,1,1,0,0,0
ET Neutral	0,2,2,0,0,0
INFO Detail set.	SET OK

Shooting setting		5H0074
Picture Style	Portrait	
Long exp. noise rec	luction	OFF
High ISO speed NR		.1
Dust Delete Data		
Live View shoot.	Enable	

### Select the setting.

- Press the <▲> <▼> or <◀> <►> keys of the cross keys to select the desired setting. (Some settings are selected with the <▲> and <▼> keys, and others are selected with the <◀> and <►> keys.)
- The current setting is indicated in blue.

### Set the setting.

- Press < SET > to set it.
- If you change the setting from the default, it will be indicated in blue (available only for the menu items under the [1] tab).

### Exit the setting.

 Press the <MENU> button twice to exit the menu and return to shootingready state.

- In step 2, you can also use the < >> dial.
  - You can also go to the menu screen by tapping on [OK] in step 3.
  - In steps 2 to 8, you can also tap on the LCD monitor to perform the operation (p.65).
  - The description of menu functions hereafter assumes that the menu screen is displayed.
  - To cancel the operation, press the <MENU> button.
  - For details about each menu item, see page 402.

### • When [ 🕰 : Menu display: Standard] is Set

•	4 94	*
40 - 34 - 74		90011
Image quality		
Drive mode	⊡ €be	
Image review	2 sec.	
Release shutter w	ithout card	ON
AF operation	ONE SHO	T AF
Lens electronic M	F	@+017

### Display the menu screen.

 Press the <MENU> button to display the menu screen.

### Select a tab.

- Turn the < <sup>∞</sup> > dial or press the < ◄><<>> keys to select the main tab and secondary tab.
- For example, in this manual, the
   [1]4] tab refers to the screen displayed when the 1 (Shooting) tab's [4] is selected.
- The subsequent operations are the same as those for [ 2 : Menu display: Guided]. See the steps on page 61, starting with step 5.
- To exit the setting, press the <MENU> button once.

### **Dimmed Menu Items**

## Example: When [Multi Shot Noise Reduction] is set

Auto lion Enable	SHOOT4
tion	
Enable	1971
Enable	
M	ENU 🔊
tion	-
ause of t on's settin e Reduct	ng.
	tion ause of t

Dimmed menu items cannot be set. The menu item is dimmed if another function setting is overriding it.

You can see the overriding function by selecting the dimmed menu item and pressing <SET >.

If you cancel the overriding function's setting, the dimmed menu item will become settable.

You may not be able to see the overriding function for certain dimmed menu items.

With [Clear all camera settings] under [**4**: Clear settings], you can reset the menu functions to the default settings (p.298).

### b Operating the Camera with Touch Screen

You can operate the camera by tapping on the LCD monitor (touchsensitive panel) with your fingers.

### Тар

### Sample Screen (Quick Control)





- Use your finger to tap on (touch briefly and then remove your finger from) the LCD monitor.
- By tapping, you can select menus, icons, etc. displayed on the LCD monitor.
- For example, when you tap on [Q], the Quick Control screen appears. By tapping on [Q<sup>b</sup>], you can return to the preceding screen.

#### Operations possible by tapping on the screen

- Setting menu functions after pressing the <MENU> button
- Quick Control
- Setting functions after pressing the <ISO> or < ⊡> button
- Touch AF and Touch Shutter in Live View shooting
- AF point selection in movie shooting
- Setting functions in Live View shooting and movie shooting
- Playback operations

### Drag

### Sample Screen (Menu screen)



Slide your finger while touching the LCD monitor.

Sample Screen (Scale display)

	( <b>33</b> +2/ <sub>0</sub>		
Darker	2:::1:: <b>0</b> :	22	Brighter
		C	SET OK

### Operations possible by dragging your finger on the screen

- Selecting a menu tab or item after pressing the <MENU> button
- Setting with scale display
- Quick Control
- Selecting AF points
- Setting functions in Live View shooting and movie shooting
- Playback operations

### MENU Setting the Touch Control Response



### Select [Touch control].

Under the [¥3] tab, select [Touch control], then press <SET>.

# Set the touch control response setting.

- Select the desired setting, then press <SET>.
- [Standard] is the normal setting.
- [Sensitive] provides a more reactive touch screen response than
   [Standard]. Try using both settings and select the one you prefer.
- To disable touch operations, select [Disable].

### Cautions for Touch Control Operations

- Since the LCD monitor is not pressure sensitive, do not use any sharp objects, such as your fingernail or a ballpoint pen, for touch operations.
- Do not use wet fingers for touch operations.
- If the LCD monitor has any moisture or if your fingers are wet, the touch screen may not respond or malfunction may occur. In such a case, turn off the power and wipe off the moisture with a cloth.
- Attaching any commercially-available protective sheet or sticker on the LCD monitor may degrade the touch operation response.
- If you quickly perform touch operation when [Sensitive] is set, the touch operation response may be poor.

### MENU Formatting the Card

If the card is new or was previously formatted by another camera or computer, format the card with this camera.

When the card is formatted, all images and data on the card will be erased. Even protected images will be erased, so make sure there is nothing you need to keep. If necessary, transfer the images and data to a computer, etc. before formatting the card.

21 31 4	SET UP:
Select folder	
File numbering	Continuous
Auto rotate	On D 📃
Format card	
Wireless communi	cation settings

Format card	
Forma	t card
All data wi	ill be lost!
10	
7.76 GB used	7.81 GB
1 Low level	format
Cancel	OK
	1
7.76 CB used	7.81 GB
i J.ow level	format
	and the second s

### Select [Format card].

Under the [¥1] tab, select [Format card], then press < SET >.

### Format the card.

- Select [OK], then press <SET >.
- The card will be formatted.
- When the formatting is complete, the menu will reappear.
- For low-level formatting, press the
   ≤ m > button to add a checkmark <√> to [Low level format], then select
   [OK].

The card capacity displayed on the card format screen may be smaller than the capacity indicated on the card.

This device incorporates exFAT technology licensed from Microsoft.

### Perform [Format card] in the following cases:

- The card is new.
- The card was formatted by a different camera or a computer.
- The card is full of images or data.
- A card-related error is displayed (p.427).

#### Low-level Formatting

- Perform low-level formatting if the card's writing or reading speed seems slow or if you want to totally erase the data on the card.
- Since low-level formatting will format all recordable sectors on the card, the formatting will take slightly longer than normal formatting.
- You can stop the low-level formatting by selecting [Cancel]. Even in this case, normal formatting will already be complete and you can use the card as usual.

#### Card's file formats

SD/SDHC cards will be formatted in FAT32. SDXC cards will be formatted in exFAT.

When shooting a movie with a card formatted in exFAT, the movie will be recorded in a single file (instead of being split into multiple files) even if it exceeds 4 GB. (The movie file will exceed 4 GB.)

- If you format an SDXC card with this camera and then insert it into another camera, an error may be displayed and the card may become unusable. Certain computer operating systems or card readers may not recognize a card formatted in exFAT.
  - When the card is formatted or data is erased, only the file management information is changed. The actual data is not completely erased. Be aware of this when selling or discarding the card. When discarding the card, perform low-level formatting or destroy the card physically to prevent personal data from being leaked.
  - Before using a new Eye-Fi card, the software on the card must be installed on your computer. Then format the card with the camera.

### Switching the LCD Monitor Display

The LCD monitor can display the Quick Control screen, menu screen, captured images, etc.





- When you turn on the power, the Quick Control screen will appear. You can then check the current shooting function settings.
- When you press the shutter button halfway, the display will turn off.
   And when you let go of the shutter button, the display will turn on.
- You can also turn off the display by pressing the <DISP > button. Press the button again to turn on the display.

### **Menu Functions**



 Appears when you press the <MENU> button. Press the button again to return to the previous screen.

### **Captured Image**



- Appears when you press the
   > button. Press the button again to return to the previous screen.
- You can set [Y2: LCD off/on btn] so that the LCD monitor does not turn off or on (p.301).
  - Even when the menu screen or captured image is displayed, pressing the shutter button will enable you to shoot immediately.



# **Basic Shooting and** Image Playback

This chapter describes how to use the Basic Zone modes on the Mode Dial for best results and how to play back images.

With Basic Zone modes, all you do is point and shoot, and the camera sets everything automatically (p.107, 390). Also, because advanced shooting function settings cannot be changed, you can enjoy shooting photographs without worrving about botched pictures due to misoperation.





Before Shooting in the <SCN> or <Q> Mode When the LCD monitor is turned off, press the  $< \mathbb{N} >$  button (p.85.) 100) to check which shooting mode is set, then start shooting. \* <SCN>: Special scene

- \* <@> : Creative filters

### Fully Automatic Shooting (Scene Intelligent Auto)

 $\langle \underline{A}^{\dagger} \rangle$  is a fully automatic mode. The camera analyzes the scene and sets the optimum settings automatically. It can also adjust focus automatically on either the still or moving subject by detecting the motion of the subject (p.75).



AF point



### Set the Mode Dial to $\langle \Delta^+ \rangle$ .

### Aim the AF point over the subject.

- All the AF points will be used to focus, and the camera will normally focus on the closest object.
- Aiming the center of the AF point over the subject will make focusing easier.





Focus indicator

### Focus on the subject.

- Press the shutter button halfway. The lens elements will shift to focus.
- When achieving focus, the dot inside the AF point achieving focus flashes briefly in red. At the same time, the beeper will sound and the focus indicator < > in the viewfinder will light up.
- In low light, the AF point(s) will light up briefly in red.
- The built-in flash will be raised automatically as necessary.

If a description of the shooting mode appears in step 1, press <SET > to hide it (p.55).


### Take the picture.

- Press the shutter button completely to take the picture.
- The captured image will be displayed for approx. 2 sec. on the LCD monitor.
- When you finish shooting, push down the built-in flash with your fingers.

The <[4] The <[4] > mode makes the colors look more impressive in nature, outdoor, and sunset scenes. If you do not obtain the desired color tones, change the mode to a Creative Zone mode and select a Picture Style other than <[3] A. then shoot again (p.135).

## **?** FAQ

- The focus indicator <●> blinks and focus is not achieved.
  - Aim the AF point over an area with good contrast, then press the shutter button halfway (p.51).
  - · If you are too close to the subject, move away and shoot again.
  - Select the AF point nearest to where you want to focus (p.119). The default setting is Automatic selection AF.

### Multiple AF points light up simultaneously.

Focus has been achieved at all those points that flash in red. You can take the picture as long as an AF point covering the target subject is lighting up.

# The beeper continues to beep softly. (The focus indicator < > does not light up.)

It indicates that the camera is focusing continuously on a moving subject. (The focus indicator  $< \Phi >$  does not light up.) You can take sharp pictures of a moving subject.

Note that focus lock (p.75) will not work in this case.

# Pressing the shutter button halfway does not focus on the subject.

If the focus mode switch of the lens is set to **<MF>** (manual focus), set it to **<AF>** (autofocus).

### • The flash fired even if it was daylight.

For a backlit subject, the flash may fire to help lighten the subject's dark areas. If you do not want the flash to fire, use the Quick Control to set [**Built-in flash firing**] to [] (p.106) or set the < (Flash Off) mode and shoot (p.77).

### The built-in flash fired and the picture came out extremely bright.

Move further away from the subject and shoot. When shooting with flash, if the subject is too close to the camera, the picture may come out extremely bright (overexposure).

### In low light, the built-in flash fired a series of flashes.

Pressing the shutter button halfway may trigger the built-in flash to fire a series of flashes to assist autofocusing. This is called the AF-assist beam. Its effective range is approx. 4 meters / 13.1 feet. Note that the built-in flash will make a sound when firing continuously. This is normal and not a malfunction.

### When flash was used, the bottom part of the picture came out unnaturally dark.

The shadow of the lens barrel was captured in the picture because the subject was too close to the camera. Move further away from the subject and shoot. If a hood is attached to the lens, remove it before taking the flash picture.

# 🔺 Full Auto Techniques (Scene Intelligent Auto) 🗕

### **Recomposing the Shot**



Depending on the scene, positioning the subject toward the left or right to include a balanced background will result in a picture with better perspective. In the  $< \Box^{+} >$  mode, pressing the shutter button halfway to focus on a still subject will lock the focus on that subject. Recompose the shot while keeping the shutter button pressed halfway, and then press the shutter button completely to take the picture. This is called "focus lock". Focus lock is also possible in other Basic Zone modes (except < **SCN**:  $\bigotimes$  >).

### **Shooting a Moving Subject**



In the <[] > mode, if the subject moves (distance to camera changes) during or after focusing, AI Servo AF will take effect to focus on the subject continuously. (The beeper will continue beeping softly.) As long as you keep the AF point positioned over the subject while pressing the shutter button halfway, focusing will be continuous. At the decisive moment, press the shutter button completely to take the picture.

### Live View Shooting

You can shoot while viewing the image on the LCD monitor. This is called "Live View shooting". For details, see page 195.







# Display the Live View image on the LCD monitor.

- Press the < 1 > button.
- The Live View image will appear on the LCD monitor.

### Focus on the subject.

- Press the shutter button halfway to focus.
- When focus is achieved, the AF point will turn green and the beeper will sound.

### Take the picture.

- Press the shutter button completely.
- The picture is taken and the captured image is displayed on the LCD monitor.
- When the playback display ends, the camera will return to Live View shooting automatically.
- Press the < >> button to exit the Live View shooting.

You can also rotate the LCD monitor for different angles (p.41).



Normal angle





High angle

Low angle

76

## 🔁 Shooting When You Cannot Use Flash

The camera analyzes the scene and sets the optimum settings automatically. In places where flash photography is prohibited such as in a museum or an aquarium, use the  $< \mathfrak{B} >$  (Flash Off) mode.





## 🔆 Shooting Tips

 Prevent camera shake if the numeric display (shutter speed) in the viewfinder blinks.

Under low light when camera shake is prone to occur, the viewfinder's shutter speed display will blink. Hold the camera steady or use a tripod. When using a zoom lens, use the wide-angle end to reduce blur caused by camera shake even with handheld shooting.

### Take portraits without flash.

In low-light conditions, tell the subject to keep still until the picture is taken. Any movement by the subject during shooting may result in the subject being blurred in the picture.

# CA Creative Auto Shooting

<( $\square$ )> is a fully-automatic shooting mode that is a step more advanced from <( $\square^+$ )>. You can adjust the photo's ambience, background blur, etc. before shooting.

By pressing the < > button, you can set 1. Ambience-based shots, 2. Background blur setting, 3. Drive mode, and 4. Built-in flash firing with Quick Control.

\* < CA > stands for Creative Auto.



• Press the shutter button completely to take the picture.



If you set (1) or (2) when the camera is set for Live View shooting, you can see the effect on the screen before you start shooting.

### (1) Ambience-based shots

You can select and shoot with the ambience you want to convey in your images. Turn the < > dial to select the ambience. You can also select it from a list by pressing < SET >. For details, see page 82.

### (2) Background blur



- If [OFF] is set, the degree of background blur will change depending on the brightness.
- If it is set to any setting other than [**OFF**], you can adjust the background blur regardless of the brightness.
- The further you move the cursor to the right with the < i > dial, the sharper the background will look in the picture.
- The further you move the cursor to the left with the < > dial, the more blurred the background around the subject will be. Note that depending on the speed of the lens (f/number), certain slider adjustments may not be selectable (indicated by •).
- When operating the < >> dial during Live View shooting,
   [Simulating blur] will be displayed on the LCD monitor. You can see the degree of front and background blur in contrast with the subject that is focused on during setting operation (while
   [Simulating blur] is being displayed).
- If you want to blur the background, see "Shooting Portraits" on page 87.
- Depending on the lens used and shooting conditions, the background may not look so blurred.
- This function cannot be set if you use flash. If < \$^A> is set and you set background blur, < >> will be set automatically.

If [Simulating blur] is enabled during Live View shooting, the image displayed with < (0.199) blinking may have more noise than the actual image being recorded, or it may look dark.

- (3) Drive mode: Use the < > dial to make the selection. You can also select it from a list by pressing <SET>.
  - < >> Single shooting:

Shoot one image at a time.

Continuous shooting:

While you hold down the shutter button completely, shots will be taken continuously. You can shoot up to approx. 5.0 shots per second.

#### <🕉10> < 🖏 > Self-timer: 10 sec./remote control

(when Wireless Remote Control BR-E1 (sold separately) is used):

The picture is taken 10 seconds after you press the shutter button. Remote control shooting using the BR-E1 is also possible.

< 32 > Self-timer: 2 sec.:

The picture is taken 2 seconds after you press the shutter button.

### < C> Self-timer: Continuous:

Press the  $< \blacktriangle > < \nabla$  > keys to set the number of multiple shots (2 to 10) to be taken with the self-timer. 10 seconds after you press the shutter button, the set number of multiple shots are taken.

(4) Built-in flash firing: Turn the < >> dial to select the desired setting. You can also select it from a list by pressing <SET>.

<\$^> Auto built-in flash: The flash fires automatically as

necessary.

- <4> Built-in flash on : The flash fires at all times.
- < >> Built-in flash off : The flash is disabled.
- When using the self-timer, see the a notes on page 126.
  - For remote control shooting, see page 382.
  - When the camera is paired with BR-E1, <ši₀> will change into <is> (p.384).
  - When using <⊕>, see "Shooting When You Cannot Use Flash" on page 77.

### **Shooting with Ambience Selection**

Ambience	Ambience Effect
STD Ambience: Standard	No setting
‴v Vivid	Low / Standard / Strong
♥s Soft	Low / Standard / Strong
™w Warm	Low / Standard / Strong
🕅 Intense	Low / Standard / Strong
rc Cool	Low / Standard / Strong
₱B Brighter	Low / Medium / High
♥D Darker	Low / Medium / High
M Monochrome	Blue / B/W / Sepia



### Display the Live View image.

 Press the < > button to display the Live View image.



# With Quick Control, select the desired ambience.

- Press the < Q > button (<sup>(</sup>⊘<sup>10</sup>).
- Press the <▲ > <▼ > keys to select [™D Ambience: Standard].
   [Ambience-based shots] will appear on the screen.
- Press the <◀> <►> keys to select the desired ambience.
- The LCD monitor will display how the image will look with the selected ambience.



### Set the ambience effect.

- Press the <▲> <▼> keys to select the effect so that [Effect] appears at the bottom of the screen.
- Press the <◀> <►> keys to select the desired effect.

### Take the picture.

- Press the shutter button completely to take the picture.
- To return to viewfinder shooting, press the < > button to exit Live
   View shooting. Then press the shutter button completely to take the picture.
- If you change the shooting mode or set the power switch to <OFF>, the setting will revert back to [\$50 Ambience: Standard].

- The Live View image shown with the ambience setting applied will not look exactly the same as the captured image.
  - The ambience effect may be reduced in flash photography.
  - In bright outdoors, the Live View image you see on the LCD monitor may not have exactly the same brightness or ambience as with the actual captured image. Set [**Ý2: LCD brightness**] to 4, and look at the Live View image, preventing the outside light from affecting the image viewing.

If you do not want the Live View image to be displayed when setting this function, start the operation from step 2.

### **Ambience Settings**

#### STD Ambience: Standard

This provides standard image characteristics.

### ‴v Vivid

The subject looks crisp, sharp and vivid. Effective for making the picture look more impressive than with [Fin Ambience: Standard].

### s Soft

The subject is less defined, giving the picture a softer and daintier look. Good for portraits, pets, flowers, etc.

### w Warm

The subject is less defined with a warmer color cast, giving the picture a warmer and gentler look. Good for portraits, pets, and other subjects to which you want to give a warm look.

### 灯 Intense

While the overall brightness is slightly lowered, the subject is emphasized for a more intense feeling in the picture. Effective for making the human or living subject stand out more.

### C Cool

The overall brightness is slightly lowered with a cooler color cast in the picture. Effective for making a subject in the shade look more calm and impressive.

### B Brighter

The picture looks brighter.

### D Darker

The picture looks darker.

### Monochrome

The picture becomes monochrome. You can select the monochrome color to be blue, black and white, or sepia.

# SCN: Special Scene Mode

The camera will automatically choose the appropriate settings when you select a shooting mode for your subject or scene.

\* <**SCN**> stands for Special Scene.



### Available Shooting Modes in the <SCN> Mode

	Shooting Mode	Page
Þ	Portrait	p.87
iji	Group Photo	p.88
*	Landscape	p.89
.₹	Sports	p.90
e)¢	Kids	p.91
÷	Close-up	p.92

	Shooting Mode	Page
٣f	Food	p.93
2f	Candlelight	p.94
2	Night Portrait	p.95
2	Handheld Night Scene	p.96
ie B	HDR Backlight Control	p.97

# Shooting Portraits

The  $\langle \mathfrak{P} \rangle$  (Portrait) mode blurs the background to make the human subject stand out. It also makes skin tones and hair look softer.





### Shooting Tips

 Select the location where the distance between the subject and the background is the farthest.

The further the distance between the subject and background, the more blurred the background will look. The subject will also stand out better against an uncluttered dark background.

### Use a telephoto lens.

If you have a zoom lens, use the telephoto end to fill the frame with the subject from the waist up. Move in closer as necessary.

### Focus on the face.

Check that the AF point covering the face lights up. For close-ups of the face, focus on the eyes.

The default setting is < □> (Continuous shooting). If you keep holding down the shutter button, you can shoot continuously (max. approx. 5.0 shots/sec.) to capture changes in the subject's facial expression and pose.

# 🙀 Shooting Group Photos

Use the <  $\dot{\mathbf{W}}$  > (Group Photo) mode to shoot group photos. You can take a picture in which both the people in the front and people in the back are all in focus.







### Use a wide-angle lens.

When using a zoom lens, use the wide-angle end to make it easy to get all the people in the group in focus at once, from the front row to the back. Also, if you place a little distance between the camera and the subjects (so that the subjects' entire bodies are in the shot), the focus range increases in depth.

### Take multiple shots of the group.

It is recommended to shoot multiple photos in case some people close their eyes.

### See the cautions on page 98.

- When shooting indoors or in low-light, hold the camera steady or use a tripod to prevent camera shake.
  - You can adjust the image brightness with [Brightness].

# A Shooting Landscapes

Use the  $\leq \Delta >$  (Landscape) mode for wide scenery or to have everything in focus from near to far. For vivid blues and greens, and very sharp and crisp images.







With a zoom lens, use the wide-angle end.

When using a zoom lens, set the lens to the wide-angle end to make the objects near and far in focus. It also adds breadth to landscapes.

### Shooting night scenes.

The  $< \ge >$  mode is also good for night scenes because it disables the built-in flash. When shooting night scenes, use a tripod to prevent camera shake.

• The built-in flash will not fire even in backlit or low-light conditions.

If you are using an external Speedlite, the Speedlite will fire.

# 💐 Shooting Moving Subjects

Use the  $< \ll >$  (Sports) mode to shoot a moving subject, such as a running person or a moving vehicle.







### Use a telephoto lens.

Use of a telephoto lens is recommended for shooting from a distance.

### • Use the center AF point to focus.

Aim the center AF point over the subject, then press the shutter button halfway to autofocus. During autofocusing, the beeper will continue beeping softly. If focus cannot be achieved, the focus indicator  $< \bullet >$  will blink.

The default setting is < > (Continuous shooting). At the decisive moment, press the shutter button completely to take the picture. If you keep holding down the shutter button, you can shoot continuously while maintaining autofocus to capture changes in the subject's movement.

- 0
- The built-in flash will not fire even in backlit or low-light conditions.
   Under low light where camera shake tends to occur, the viewfinder's shutter speed display on the bottom left will blink. Hold the camera steady and shoot.
- If you are using an external Speedlite, the Speedlite will fire.

# 🕏 Photographing Children

When you want to continuously focus on and photograph children running around, use  $<\frac{3}{2}$  > (Kids). Skin tones will look healthy.





### Shooting Tips

### Use the center AF point to focus.

Aim the center AF point over the subject, then press the shutter button halfway to autofocus. During autofocusing, the beeper will continue beeping softly. If focus cannot be achieved, the focus indicator  $< \bullet >$  will blink.

### Shoot continuously.

The default setting is  $\triangleleft$  (Continuous shooting). At the decisive moment, press the shutter button completely to take the picture. If you keep holding down the shutter button, you can shoot continuously while maintaining autofocusing to capture changes in the subject's facial expression and movement.

- While the flash is recharging, " 4 buSY" is displayed in the viewfinder, and a picture cannot be taken. Take the picture after this display turns off.
- See the cautions on page 98.

# Shooting Close-ups

When you want to shoot flowers or small things up close, use the  $\langle \mathbf{w} \rangle$  (Close-up) mode. To make small things appear much larger, use a macro lens (sold separately).







### Use a simple background.

A simple background makes small objects such as flowers stand out better.

### Move in as close as possible to the subject.

Check the lens for its minimum focusing distance. Some lenses have indications such as <0.25m/0.8ft> on them. The lens minimum focusing distance is measured from the < $\Theta$ > (focal plane) mark on the top of the camera to the subject. If you are too close to the subject and focus cannot be achieved, the focus indicator < $\Phi$ > will blink.

If the built-in flash is fired and the bottom part of the picture comes out unnaturally dark, move away a little from the subject and try again.

### • With a zoom lens, use the telephoto end.

When using a zoom lens, using the telephoto end will make the subject look larger.

# Image: style="text-decoration-color: blue;"> **Image: style="text-decoration-color: blue;"> <b>Image: style="text-decoration-color: blue;"> <b>Image: style: s**

When shooting food, use  $< \P$  (Food). The photo will look bright and appetizing. Also, depending on the light source, the reddish tinge will be suppressed in the pictures taken under tungsten lights, etc.





### Change the color tone.

You can change [**Color tone**]. To increase the food's reddish tinge, set it toward [**Warm**]. Set it toward [**Cool**] if it looks too red.

### Avoid using flash.

If you use flash, the light may reflect off the dish or food and results in unnatural shadows. Therefore,  $<\mathfrak{G}>$  (Built-in flash off) is set by default. Try to prevent camera shake when shooting in low-light locations.

- Since this mode lets you shoot the food in appetizing color tones, human subjects may be photographed with an unsuitable skin tone.
  - The warm color cast of subjects may fade.
  - When multiple light sources are included on the screen, the warm color cast of the picture may not be reduced.
  - If you use flash, the [Color tone] setting will switch to the standard.

# Shooting Candlelight Portraits

When you want to photograph a human subject lit in candlelight, use  $< \mathbf{\Xi} >$  (Candlelight). The atmosphere of candlelight is reflected in the color tones of the picture.





## Shooting Tips

### • Use the center AF point to focus.

Aim the center AF point in the viewfinder over the subject, then shoot.

### Prevent camera shake if the numeric display (shutter speed) in the viewfinder blinks.

Under low light, the viewfinder's shutter speed display will blink. Hold the camera steady or use a tripod. When using a zoom lens, you can reduce the blur caused by camera shake by setting the lens to the wide-angle end.

### • Change the color tone.

You can change [Color tone]. To increase the candlelight's reddish tinge, set it toward [Warm]. Set it toward [Cool] if it looks too red.

Live View shooting is not possible.

 Flash photography is not possible. In low light, the AF-assist beam may be emitted (p.117).

# Shooting Night Portraits (With a Tripod)

When you want to photograph people at night and obtain a naturallooking night scene in the background, use the  $< \mathbf{E} >$  (Night Portrait) mode. Using a tripod is recommended.





### Shooting Tips

Use a wide-angle lens and a tripod.

When using a zoom lens, use the wide-angle end to obtain a wide night view. Also, since camera shake is prone to occur with handheld shooting, use a tripod.

### Check the subject's brightness.

Under low light, the built-in flash will fire automatically to obtain a good exposure of the subject.

Note that it is recommended to play back the captured image on location to check the image brightness. If the subject looks dark, move nearer and shoot again.

### Also shoot in other shooting modes.

Since camera shake is prone to occur with night shots, shooting also with  $<(\Delta^+>$  and  $<(\Box)>$  is recommended.

- Tell the subject to keep still even after the flash fires.
  - If you use the self-timer together with flash, the self-timer lamp will light up briefly after the picture is taken.
  - See the cautions on page 98.

# Shooting Night Scenes (Handheld)

Using a tripod when shooting a night scene gives the best results. However, the < [2] > (Handheld Night Scene) mode enables you to shoot night scenes even while handholding the camera. In this shooting mode, four shots are taken consecutively for each picture, and the resulting one image with reduced camera shake is recorded.







### Hold the camera firmly.

During shooting, hold the camera firmly and steadily. In this mode, four shots are aligned and merged into a single image. However, if there is significant misalignment in any of the four shots due to camera shake, they may not align properly in the final image.

### • For shots including people, fire the flash.

If you are to include people in the night scene shot, press the  $< \mathbf{Q} >$  button to set  $< \mathbf{5} >$  (Built-in flash on). To take a nice portrait, the first shot will use flash. Tell the subject not to move until all four consecutive shots are taken.

Compared to other shooting modes, the shooting range will be smaller.
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See the cautions on pages 98-99.

# 🔉 Shooting Backlit Scenes

When shooting a scene having both the bright and dark areas, use the  $< \underline{lpha} >$  (HDR Backlight Control) mode. When you take one picture in this mode, three consecutive shots are taken at different exposures. This results in one image, with a wide tonal range, that has minimized the clipped shadows caused by backlighting.







### Hold the camera firmly.

During shooting, hold the camera firmly and steadily. In this mode, three shots are aligned and merged into a single image. However, if there is significant misalignment in any of the three shots due to camera shake, they may not align properly in the final image.

• Compared to other shooting modes, the shooting range will be smaller.

- Flash photography is not possible. In low light, the AF-assist beam may be emitted (p.117).
- See the cautions on page 99.

HDR stands for High Dynamic Range.

### Cautions for <₩ > Group Photo

 Since distortion correction is applied, the camera records an image area narrower than the one seen through the viewfinder. (The image periphery is slightly trimmed and the resolution looks slightly lowered.) Also, during Live View shooting, the angle of view changes slightly.

#### Cautions for <% > Kids

 During Live View shooting, if flash is fired in continuous shooting, the continuous shooting speed will decrease. Even if the flash is not fired for subsequent shots, shooting will still be performed with the decreased continuous shooting speed.

#### Cautions for <<sup>™</sup> > Night Portrait and <<sup>™</sup> > Handheld Night Scene

- During Live View shooting, achieving focus may be difficult with point sources of light, such as may be found in a night scene. In such a case, set the lens's focus mode switch to <**MF**> and focus manually.
- The Live View image displayed will not look exactly the same as the actual captured image.

#### Cautions for < 2 > Night Portrait

 During Live View shooting, achieving focus may be difficult when the face of the subject looks dark. In such a case, set the lens's focus mode switch to <**MF**> and focus manually.

### Cautions for < I > Handheld Night Scene and < i > HDR Backlight Control

- You cannot select XAW + A L or XAW Is set, the image will be recorded in A L quality.
- If you shoot a moving subject, the subject's movement may leave afterimages, or the surrounding area of the subject may become dark.
- The image alignment may not function properly with repetitive patterns (lattice, stripes, etc.), flat or single-tone images, or images significantly misaligned due to camera shake.
- It takes some time to record images to the card since they are merged after shooting. During the image processing, "buSY" will be displayed in the viewfinder, and you cannot take another picture until the processing is complete.

#### Cautions for < 2 > Handheld Night Scene

- In flash photography, if the subject is too close to the camera, the picture may come out extremely bright (overexposure).
- In flash photography, if you shoot a night scene with limited lights, the shots may not align correctly. This may result in a blurry picture.
- In flash photography, if the human subject is close to the background that is also illuminated by the flash, the shots may not align correctly. This may result in a blurry picture. Unnatural shadows and unsuitable colors may also appear.
- Flash coverage angle with an external Speedlite:
  - When using a Speedlite with automatic flash coverage setting, the zoom position will be fixed to the wide (wide-angle) end regardless of the lens's zoom position.
  - When using a Speedlite requiring manual flash coverage setting, set the flash head to the normal position.

#### Cautions for < 3 > HDR Backlight Control

- The image may not be rendered with a smooth gradation and may look irregular or have significant noise.
- HDR Backlight Control may not be effective for excessively backlit scenes or extremely high-contrast scenes.
- When shooting subjects that are sufficiently bright as they are, for example for normally lit scenes, the image may look unnatural due to the HDR effect.

# Shooting with Creative Filter Effects

In the < >> (Creative filter) mode, you can apply one of ten filter effects (Grainy B/W\*, Soft focus\*, Fish-eye effect\*, Water painting effect\*, Toy camera effect\*, Miniature effect\*, HDR art standard, HDR art vivid, HDR art bold, and HDR art embossed) for shooting. When the camera is set for Live View shooting, you can see the effect on the screen before you start shooting. The camera saves only the image with the Creative filter effects applied.

For the effects marked with an asterisk, you can also take a picture without a Creative filter, then apply the effect afterward and save it as a new image (p.356).





### Set the Mode Dial to $\langle Q \rangle$ .

### Display the Live View image.

 Press the < > button to display the Live View image.



# Select [Creative filters] with Quick Control.

- Press the < **Q** > button (♂10).
- Press the <▲> <▼> keys to select [♣] on the upper left of the screen, then press <SET>.

If you do not want the Live View image to be displayed when setting functions, press the < ( > button after step 1 and select [Choose filter].



### Select a shooting mode.

Press the <▲> <▼> keys to select a shooting mode, then press <SET>.
 The image will be displayed with the effects of the filter applied.

### Available Shooting Modes in the 🕥 Mode

	Shooting Mode	Page
El	Grainy B/W	p.102
2	Soft focus	p.102
3	Fish-eye effect	p.102
*	Water painting effect	p.103
õ	Toy camera effect	p.103

		Shooting Mode	Page
	₿hh	Miniature effect	p.103
	HDR	HDR art standard	p.103
	HDR	HDR art vivid	p.103
Γ	KHDR	HDR art bold	p.104
	HDR	HDR art embossed	p.104



### Adjust the effect.

- Press the < (Q) > button and select the icon below [Creative filters] (except for , , , , , , , , , , , , , , and , , ).
- Press the <◄> <►> keys to adjust the filter effect, then press <SET>.

### Take the picture.

- Press the shutter button completely to take the picture.
- To return to viewfinder shooting, press the < > button to exit Live
   View shooting. Then press the shutter button completely to take the picture.

- You cannot select RAW + I L or RAW. If RAW + I L or RAW is set, the image will be recorded in I L quality.
  - When <𝔹>, <𝔹>, <𝔹>, <𝔹>, <𝔹>, or <𝔹> is set, continuous shooting cannot be set.
  - Dust Delete Data (p.304) will not be appended to images shot with Fisheye effect applied.
  - <基> is set to <☺> (Flash Off) by default. Try to prevent camera shake when shooting in low-light conditions.

### During Live View Shooting

- With Grainy B/W, the grainy effect displayed on the LCD monitor will look different from the grainy effect recorded in the picture.
- With the Soft focus and Miniature effects, the blurred effect displayed on the LCD monitor may look different from the blurred effect recorded in the picture.
- The histogram is not displayed.
- Magnified view is not possible.
- In Creative Zone modes, you can set some Creative filters with Quick Control (p.205).

### **Creative Filter Characteristics**

### Grainy B/W

Creates a grainy black-and-white photo. You can change the blackand-white effect by adjusting the contrast.

### Soft focus

Gives the image a soft look. You can change the degree of softness by adjusting the blur.

### Fish-eye effect

Gives the effect of a fish-eye lens. The image will have a barrel-type distortion.

Depending on the level of this filter effect, the area trimmed along the periphery of the image changes. Also, since this filter expands the center part of the image, the resolution at the center may decrease depending on the number of recorded pixels. Check the image on the screen when setting this filter. The AF point will be fixed to the one at the center.

### Water painting effect

Makes the photo look like a watercolor painting with soft colors. You can control the color density by adjusting the filter effect. Note that night scenes or dark scenes may not be rendered with a smooth gradation and may look irregular or have significant noise.

### Tov camera effect

Darkens the photo's corners and applies a unique color tone that makes it look as if it was shot by a toy camera. You can change the color cast by adjusting the color tone.

### **恩** Miniature effect

Creates a diorama effect.

If you want the image center to look sharp, take the picture without changing any setting.

To move the area that looks sharp (miniature effect frame) in Live View shooting, see "Adjusting Miniature Effect" (p.105). The AF method will be Live 1-point AF. Positioning the miniature effect frame over the AF point before shooting is recommended.

During viewfinder shooting, aim the center AF point over the subject and shoot

### Sim HDR art standard

Clipped highlights and shadows will be reduced. The low contrast and flat gradation create a painting-like effect. The subject outlines will have bright (or dark) edges.

### SIM HDR art vivid

The colors are more saturated than with [HDR art standard], and the low contrast and flat gradation create a graphic art effect.

For  $\langle \nabla_{HDR} \rangle \langle \nabla_{HDR} \rangle \langle \nabla_{HDR} \rangle \langle \nabla_{HDR} \rangle$ , clipped highlights and shadows will be reduced for a high dynamic range of tones even with high-contrast scenes. Three images of different exposures are captured continuously for each shot and merged into a single image. See the cautions on page 104.

### KHDR HDR art bold

The colors are the most saturated, making the subject pop out, and the picture looks like an oil painting.

### SHOR AT EMBOSSED

The color saturation, brightness, contrast and gradation are decreased to make the picture look flat. The picture looks faded and old. The subject outlines will have bolder bright (or dark) edges.

### Cautions for <∛en> HDR Art Standard, <∛en> HDR Art Vivid, <∜en> HDR Art Bold, and <∛en> HDR Art Embossed

- Compared to other shooting modes, the image area will be smaller.
- The Live View image displayed with the filter applied will not look exactly the same as the actual captured image.
- If you shoot a moving subject, the subject's movement may leave afterimages, or the surrounding area of the subject may become dark.
- The image alignment may not function properly with repetitive patterns (lattice, stripes, etc.), flat or single-tone images, or images significantly misaligned due to camera shake.
- If you are handholding the camera, try to prevent camera shake when shooting.
- The color gradation of the sky or white walls may not be reproduced correctly. Irregular exposure, irregular colors, or noise may appear.
- Shooting under fluorescent or LED lighting may result in unnatural color reproduction of the illuminated areas.
- It takes some time to record images to the card since they are merged after shooting. During the image processing, "buSY" will be displayed in the viewfinder, and you cannot take another picture until the processing is complete.
- Flash photography is not possible. Note that in low light, the AF-assist beam may be emitted (p.117).

### Adjusting Miniature Effect



### Move the AF point.

- Move the AF point to where you want to focus on.
- If the AF point is not fully covered by the miniature effect frame, the [c] icon on the bottom right of the screen will blink. In the next step, adjust the position of the miniature effect frame so that it covers the AF point.



### Move the miniature effect frame.

- Press the <<sup>Q</sup> > button (or tap on the [
  ] icon at the bottom right of the screen). The miniature effect frame will turn orange and can be moved.
- Press the <INFO> button (or tap on the [12] icon at the bottom left of the screen) to switch between the vertical and horizontal orientations of the miniature effect frame.
- Press < SET > to set the position of the miniature effect frame.
- Press <▲> <▼> or <◀> <►> to move the AF point or miniature effect frame. Press the <´´´m> button to return the AF point or miniature effect frame to the screen center.

## Take the picture.

# Quick Control

In Basic Zone modes, pressing the < @> button sets the camera to the Quick Control state and enables you to set the items shown in the tables on pages 107-108.



When [Da: Shooting screen: Standard] is set, a screen such as the following will appear.







### Settable Functions in Basic Zone Modes

	Function	(Āļ	5	(CA)	SCN			
	T unction		60		Þ	iji	M	ø:
	: Single shooting	•	•	•	0	•	•	0
_ ·	및: Continuous shooting	0	0	0	٠	0	0	•
Drive mode (p.123)	ເພິ່າ/≣ໍ່⊗: Self-timer: 10 sec./ remote control	0	0	0	0	0	0	0
(p. 120)	᠔₂: 2sec.	0	0	0	0	0	0	0
	Sc: Continuous shooting	0	0	0	0	0	0	0
	4 <sup>A</sup> : Automatic firing	•		•	٠	•		
Built-in flash firing	5: Flash on (Fires at all times)	0		0	0	0		
naon inng	S: Flash off	0	•	0	0	0	•	•
Ambience-based shots (p.82)				0				
Background blur (p.80)				0				
Brightness	(p.109)				0	0	0	0

•: Default setting\* O: User selectable \_\_\_\_: Not selectable

	Function	SCN							
Function		e) <sup>je</sup>	€€	٣٩	6	ίζι	<del>س</del>	ġ.	
	: Single shooting	0	•	•	•	•	•	•	
<b>.</b>	□: Continuous shooting	•	0	0	0	0	0	0	
Drive mode (p.123)	ເວັງເo/ີ້າເວັ∶ Self-timer: 10 sec./ remote control	0	0	0	0	0	0	0	
(p. 120)	᠔₂: 2sec.	0	0	0	0	0	0	0	
	Sc: Continuous shooting	0	0	0	0	0	0	0	
	4 <sup>A</sup> : Automatic firing	•	•			•			
Built-in flash firing	5: Flash on (Fires at all times)	0	0	0			0		
ildoir illing	(): Flash off		0	٠	٠		٠	•	
Brightness (p.109)		0	0	0	0	0	0		
Color tone (	Color tone (p.93, 94)			0	0				

\* If you change the shooting mode or set the power switch to <0FF>, all the functions will revert to the default settings (except the self-timer).

	Function	Q						
	Function	чł	•1	3	*	0		
	: Single shooting	•	•	•	•	•		
<b>.</b>	및: Continuous shooting							
Drive mode (p.123)	ຢ10/∎ອ: Self-timer: 10 sec./ remote control	0	0	0	0	0		
(p. 120)	<b>७</b> ₂: 2sec.	0	0	0	0	0		
	Sc: Continuous shooting	0	0	0	0	0		
	4 <sup>A</sup> : Automatic firing	•	•	•	•	•		
Built-in flash firing	\$: Flash on (Fires at all times)	0	0	0	0	0		
naon ning	S: Flash off	0	0	0	0	0		
Adjustment	of effects (p.100)	0	0	0	0	0		

•: Default setting<sup>\*</sup> O: User selectable : Not selectable

	Function	Q							
	T unction		HDR	THDR	<b>K</b> HDR	THDR			
	: Single shooting	•	•	•	•	•			
<b>.</b> .	□: Continuous shooting		0	0	0	0			
Drive mode (p.123)	ຢ10/∎ອ: Self-timer: 10 sec./ remote control	0	0	0	0	0			
(p.125)	<b>७</b> ₂: 2sec.	0	0	0	0	0			
	Soc: Continuous shooting	0	0	0	0	0			
	4 <sup>A</sup> : Automatic firing	0							
Built-in flash firing	5: Flash on (Fires at all times)	0							
	(9): Flash off	•	٠	٠	٠	٠			
Adjustment	of effects (p.100)								

\* If you change the shooting mode or set the power switch to <0FF>, all the functions will revert to the default settings (except the self-timer).
#### 109

## Adjusting the Brightness

In Basic Zone modes, when a mode other than  $< \square^+ >$ ,  $< \square >$ ,  $< \square >$ ,  $< SCN: \underline{\&} >$ , or  $< \bigcirc >$  is set, you can adjust the brightness for shooting. You can adjust both the brightness and darkness across 3-step ranges with 0 being the standard.

#### Set the Mode Dial to < SCN: 豹前益感爱觉判团区超>.

Set to any mode other than < 3 >.

#### Display the Live View image.

 Press the < 
 <ul>
 button to display the Live View image (except < 
 <li>).

# With Quick Control, select the desired brightness.

- Press the <**Q** > button (♂10).
- Press the <▲ > <▼ > keys to select
   [ motion Brightness], then press the
   <■ > <► > keys to select the desired brightness.
- The image with the selected brightness adjustment applied will appear.

#### Take the picture.

- Press the shutter button completely to take the picture.
- To return to viewfinder shooting, press the < > button to exit Live View shooting. Then press the shutter button completely to take the picture.
- If you change the shooting mode or set the power switch to <OFF>, the setting will revert to [0] (standard).

If you do not want the Live View image to be displayed when setting functions, start the procedure from step 3.



## Image Playback

The easiest way to play back images is described below. For more details on the playback procedure, see page 309.



#### Play back the image.

- Press the < >> button.
- The last image captured or played back will appear.



#### Select an image.

- To play back images starting with the last image captured, press the <<>> key. To play back images starting with the first captured image, press the <>> key.
- Each time you press the <INFO> button, the display will change.



Shooting information display

#### Exit the image playback.

Press the < >> button to exit the image playback and return to shooting-ready state.

#### **Shooting Information Display**

With the shooting information screen displayed (p.110), you can press the  $< \blacktriangle > < \nabla >$  keys to change the shooting information displayed at the screen bottom as follows. For details, see pages 350-351.



The information displayed varies depending on the shooting mode and settings.

 If you use GPS Receiver GP-E2 or a smartphone to record GPS information for the image, the "GPS information" screen will also appear.


# Setting the AF and Drive Modes



The AF points in the viewfinder are arranged to make AF shooting suitable for a wide variety of subjects and scenes.

You can also select the AF operation and drive mode that best match the shooting conditions and subject.

- The ☆ icon at the upper right of the page title indicates that the function is available only in Creative Zone modes (p.31).
- In Basic Zone modes, the AF operation is set automatically.



## AF: Changing the Autofocus Operation $\star$

You can select the AF (autofocus) operation characteristics to suit the shooting conditions or subject. In Basic Zone modes, the optimum AF operation is set automatically for the respective shooting mode.



Set the lens focus mode switch to <AF>.

Shooting settings
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Torive mode
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- Turn the Mode Dial to a Creative Zone mode.
- Select [AF operation].
  - Under the [1] tab, select [AF operation], then press <SET>.
  - [AF operation] will appear.

#### Select the AF operation.

Press the < ◀> < ►> keys to select the desired AF operation, then press <SET>.

#### Focus on the subject.

 Aim the AF point over the subject and press the shutter button halfway. The camera will then autofocus in the selected AF operation.

#### **One-Shot AF for Still Subjects**



AF point Focus indicator Suited for still subjects. When you press the shutter button halfway, the camera will focus only once.

- The dot inside the AF point achieving focus lights up briefly in red, and the focus indicator <>> in the viewfinder will also light up.
- With evaluative metering, the exposure setting will be set at the same time focus is achieved.
- While you keep holding down the shutter button halfway, the focus will be locked. You can then recompose the shot if desired.

- If focus cannot be achieved, the focus indicator < > in the viewfinder will blink. If this occurs, the picture cannot be taken even if the shutter button is pressed completely. Recompose the shot or see "Subjects Difficult to Focus on" (p.121) and try to focus again.
  - If [**Y**3: Beep] is set to [Disable], the beeper will not sound when focus is achieved.
  - After achieving focus with One-Shot AF, you can lock the focus on a subject and recompose the shot. This is called "focus lock". This is useful when you want to focus on a peripheral subject.
  - When a lens equipped with an electronic manual focusing function is used, see page 118.

#### Al Servo AF for Moving Subjects

This AF operation is suited for moving subjects when the focusing distance keeps changing. While you hold down the shutter button halfway, the camera will keep focusing on the subject continuously.

- The exposure is set at the moment the picture is taken.
- When the AF point selection (p.119) is automatic, the camera first uses the center AF point to focus. During autofocusing, if the subject moves away from the center AF point, focus tracking continues as long as the subject is covered by another AF point.

With AI Servo AF, the beeper will not sound even when focus is achieved. Also, the focus indicator <>> in the viewfinder will not light up.

#### AI Focus AF for Switching the AF Operation Automatically

## AI Focus AF switches the AF operation from One-Shot AF to AI Servo AF automatically if a still subject starts moving.

- After the subject is in focus in One-Shot AF, if the subject starts moving, the camera will detect the movement, change the AF operation automatically to AI Servo AF, and start tracking the moving subject.
- When focus is achieved with AI Focus AF with the Servo operation active, the beeper will continue beeping softly. However, the focus indicator <●> in the viewfinder will not light up. Note that focus lock is not possible in this case.

#### AF-Assist Beam with the Built-in Flash

Under low-light conditions, when you press the shutter button halfway, the built-in flash may fire a brief burst of flashes. This illuminates the subject to help autofocusing.

- AF-assist beam will not be emitted from the built-in flash in < (S) > < SCN:</li>
   (€) €> modes.
  - AF-assist beam will not be emitted from the built-in flash when [Built-in flash firing] is set to <③> in <益<sup>+</sup>>, <匹>, <SCN: ③ 钟 芯 打 四>, or <④: 昌 显 ④ ④ ⑦ 虚> mode.
  - The AF-assist beam will not be emitted with AI Servo AF operation.
  - The built-in flash makes a sound when firing continuously. This is normal and not a malfunction.
- The effective range of the AF-assist beam emitted by the built-in flash is approx. 4 meters / 13.1 feet.
  - In Creative Zone modes, when you raise the built-in flash with the <\$> button, the AF-assist beam will be emitted as necessary. Note that depending on the setting for [5: AF-assist beam firing] under [¥4: Custom Functions (C.Fn)], AF-assist beam will not be emitted (p.368).

#### MENU Setting Lens Electronic MF

With the following USM and STM lenses equipped with electronic manual focusing function, you can set whether to use electronic manual focusing in One-Shot AF mode. The default setting is [Disable after One-Shot AF].

EF-S18-135mm f/3.5-5.6 IS USM	EF300mm f/2.8L USM	EF1200mm f/5.6L USM
EF50mm f/1.0L USM	EF400mm f/2.8L USM	EF28-80mm f/2.8-4L USM
EF85mm f/1.2L USM	EF400mm f/2.8L II USM	EF70-300mm f/4-5.6 IS II USM
EF85mm f/1.2L II USM	EF500mm f/4.5L USM	
EF200mm f/1.8L USM	EF600mm f/4L USM	

EF-S24mm f/2.8 STM	EF-S18-55mm f/4-5.6 IS STM	EF50mm f/1.8 STM
EF-S35mm f/2.8 Macro IS STM	EF-S18-135mm f/3.5-5.6 IS STM	EF24-105mm f/3.5-5.6 IS STM
EF-S10-18mm f/4.5-6.3 IS STM	EF-S55-250mm f/4-5.6 IS STM	
EF-S18-55mm f/3.5-5.6 IS STM	EF40mm f/2.8 STM	

\* As of the product's release date.

25 3		5H0013
Image quality	#L	
Drive mode	⊡ ćbr	
Image review	2 sec.	
Release shutter with	out card	ON
AF operation	ONE SHO	T AF
Lens electronic MF		@+0ff
	N	IENU D

Disable after One-Shot AF Enable after One-Shot AF

#### Select [Lens electronic MF].

Under the [1] tab, select [Lens electronic MF], then press < SET >.

#### Set the desired setting.

Select the setting, then press < SET >.

#### Disable after One-Shot AF

(ii) + (i)

Manual focus adjustment after the AF operation is disabled.

#### Enable after One-Shot AF

You can manually adjust the focus after the AF operation if you keep holding down the shutter button halfway.

## Selecting the AF Point

In any other mode, you can select one AF point to focus solely on the subject that AF point is aimed over.







#### Press the < ⊡> button (♂6).

The selected AF point will be displayed on the LCD monitor and in the viewfinder.

#### Select the AF point.

- Use the < > cross keys to select the AF point.
- To select the AF point while looking in the viewfinder, turn the < 2 > dial to switch the point lit in red.
- When all the AF points light up, automatic AF point selection will be set. The AF point will be selected automatically to focus on the subject.
- Pressing <SET > toggles the AF point selection between the center AF point and automatic AF point selection.

#### Focus on the subject.

- Aim the selected AF point over the subject and press the shutter button halfway to focus.
- You can also tap on the LCD monitor screen to select the AF point. During manual AF point selection, tapping on the [↔ ] icon at the bottom left of the screen will switch the mode to automatic AF point selection.
  - If you set [**Ý**3: Switch 國/★ button] to [Enable], you can switch the functions of the < ⊡> button and < ★ > button.

#### 🔆 Shooting Tips

 When shooting a portrait up close, use One-Shot AF and focus on the eyes.

If you set the composition after focusing on the eyes of the person to be photographed, the vivid facial expression will stand out more in the picture.

#### If it is difficult to focus, select the center AF point.

The center AF point has the highest focusing performance among the nine AF points.

 When you want to keep focusing on a moving subject easily, use automatic AF point selection and Al Servo AF in combination (p.116).

The center AF point will first be used to focus on the subject. During autofocusing, if the subject moves away from the center AF point, focus tracking continues as long as the subject is covered by another AF point.

If you use an extender (sold separately) in combination and the open aperture f/number becomes higher than f/5.6, AF shooting will not be possible (except in Live View shooting). For details, refer to the extender's instruction manual.

## Subjects Difficult to Focus on

Autofocus may fail to achieve focus (focus indicator  $< \Phi >$  in the viewfinder blinks) with special subjects such as the following:

- Subjects with very low contrast (Example: Blue skies, solid-color flat surfaces, etc.)
- Subjects in very low light
- Strongly backlit or reflective subjects (Example: Cars with highly reflective bodies, etc.)
- Near and distant subjects positioned close to an AF point (Example: Animals in cages, etc.)
- Light source such as dots of light positioned close to an AF point (Example: Night scenes, etc.)
- Subjects with repetitive patterns (Example: Skyscraper windows, computer keyboards, etc.)
- Subjects with finer patterns than an AF point (Example: Faces or flowers as small as or smaller than an AF point, etc.)

In such cases, focus in either of the following two ways.

- (1) With One-Shot AF, focus on an object at the same distance as the subject and lock the focus, then recompose the shot (p.75).
- (2) Set the lens's focus mode switch to <MF> and focus manually.

- Depending on the subject, focus may be achieved by slightly recomposing the shot and performing AF operation again.
  - For conditions that make focusing difficult with AF during Live View shooting or movie shooting, see page 221.

#### **MF: Manual Focus**



Focusing ring

# Set the lens's focus mode switch to <MF>.

#### Focus on the subject.

• Focus by turning the lens focusing ring until the subject looks sharp in the viewfinder.

If you press the shutter button halfway and focus manually, the AF point achieving focus will light up briefly in red, and the focus indicator <●> will light up in the viewfinder.

## ❑ Selecting the Drive Mode

Single and continuous drive modes are provided.



#### Single shooting

When you press the shutter button completely, only one shot will be taken.

- Continuous shooting (Max. approx. 5.0 shots/sec.)
   When you press the shutter button completely, the camera will shoot continuously while you keep holding it down.
- □<sup>S</sup>: Silent single shooting \* When you press the shutter button completely, only one shot will be taken quietly.
- S : Silent continuous shooting (Max. approx. 2.5 shots/sec.)<sup>★</sup> When you press the shutter button completely, the camera will shoot continuously quietly while you keep holding it down.

- روار العامي (when Wireless Remote Control BR-E1 (sold separately) is used)
- S₀2 : 2-sec. self-timer
- Ůc ∶ Self-timer: Continuous

For self-timer shooting, see page 125. For remote control shooting with the BR-E1, see page 382.

D: The approx. 5.0 shots/sec. maximum high-speed continuous shooting speed is achieved under the following conditions\*: 1/500 sec. or faster shutter speed, maximum aperture (varies depending on the lens), fully charged battery pack, and room temperature (23°C / 73°F). The continuous shooting speed may become slower depending on the shutter speed, aperture, subject conditions, brightness, lens, flash use, temperature, power source, remaining battery level, etc.

- \* With the AF mode set to One-Shot AF and the Image Stabilizer turned off when using the following lenses: EF300mm f/4L IS USM, EF28-135mm f/3.5-5.6 IS USM, EF75-300mm f/4-5.6 IS USM, EF100-400mm f/4.5-5.6L IS USM.
- With Live View shooting, the <□<sup>S</sup>> and <□<sup>S</sup>> cannot be set.
- The continuous shooting speed may become slower if the remaining battery level is low or if you shoot under low-light conditions.
- In AI Servo AF operation, the continuous shooting speed may become slightly slower depending on the subject conditions and the lens used.
- When internal memory becomes full during continuous shooting, the continuous shooting speed may drop off because shooting will be temporarily disabled.
- When the camera is paired with BR-E1, <औo> will change to <™> (p.382).

## 🕉 Using the Self-timer









#### Press the < > button.

The Quick Control screen will appear.

#### Select [ 🗆 🖏 ].

Press the <◀> <►> keys to select [□ Š<sub>0</sub>, then press <SET>.

#### Select the self-timer.

 Press the <◀> <►> keys to select the self-timer, then press <SET>.

 <sup>3</sup>(1)<sup>3</sup>(3): 10 sec./remote control self-timer

Remote control shooting with the Wireless Remote Control BR-E1 (sold separately) is also possible (p.382).

- **⊗**<sub>2</sub>: **2-sec. self-timer** (p.81)
- ర్పి: 10-sec. self-timer plus continuous shots

Press the  $< \blacktriangle > < \nabla >$  keys to set the number of multiple shots (2 to 10) to be taken with the self-timer.

#### Take the picture.

- Look through the viewfinder, focus on the subject, then press the shutter button completely.
- You can check the self-timer operation with the self-timer lamp, beeper, and countdown display (in seconds) on the LCD monitor.

2 sec. before the picture is taken, the self-timer lamp will light up and the beeper will sound faster.

- With < \$c>, the interval between the multiple shots may be prolonged depending on the shooting functions settings such as the imagerecording quality or flash.
  - If you do not look through the viewfinder when you press the shutter button, attach the eyepiece cover (p.386). If stray light enters the viewfinder when the picture is taken, it may throw off the exposure.
- After taking self-timer shots, playing back the image (p.110) to check focus and exposure is recommended.
  - When using the self-timer to shoot yourself, use focus lock (p.75) on an object at the same distance as where you will stand.
  - To cancel the self-timer after it starts, either tap on the LCD monitor or press <SET >.

# Image Settings

This chapter describes image-related function settings: Image-recording quality, ISO speed, Picture Style, white balance, Auto Lighting Optimizer, noise reduction, lens aberration correction, and other functions.

 The ☆ icon at the upper right of the page title indicates that the function is available only in Creative Zone modes (p.31).

### **MENU** Setting the Image-Recording Quality

You can select the pixel count and its image quality. Nine imagerecording quality settings are provided:  $\blacksquare L$ ,  $\blacksquare L$ ,  $\blacksquare M$ ,  $\blacksquare M$ ,  $\blacksquare S1$ ,  $\blacksquare S1$ , S2,  $\blacksquare W + \blacksquare L$ ,  $\blacksquare W$ .

2. 3. 4		5H0013
mage quality	dL.	
Drive mode	⊡ €b#	
Image review	2 sec.	
Release shutter wi	thout card	ON
AF operation	ONE SHO	T AF
Lens electronic MF	÷.	@+0ff
	N	ENU 5



# Select the image-recording quality.

- Under the [1] tab, select [Image quality], then press < SET >.
- [Image quality] will appear.

#### Set the image-recording quality.

 Select the image-recording quality, referring to the respective quality's pixel count and number of possible shots displayed on the screen, then press <SET>.

(Approx.)

			•	•	, ,		( 11 )
In	nage	Qua	lity	Pixels Recorded	File Size (MB)	Possible Shots	Maximum Burst
<b>A</b> L	Hiç	gh		24M	7.6	950	Full (Full)
đL.	qua	lity		24111	3.9	1840	Full (Full)
<b>⊿</b> M	Med	ium	JPEG	11M	4.1	1790	Full (Full)
M	qua	lity			2.0	3480	Full (Full)
🛋 S1				5.9M	2.6	2730	Full (Full)
🖬 S1	-	.ow iality		5.910	1.3	5260	Full (Full)
S2	900			3.8M	1.8	3810	Full (Full)
RAW +	<b>⊿</b> L	F	ligh	24M	29.4+7.6	170	6 (6)
RAW		qu	ality	Z4IVI	29.4	210	6 (6)

Guide to Image-recording Quality Settings

\* The file size, possible shots, and maximum burst are based on Canon's testing standards (3:2 aspect ratio, ISO 100 and Standard Picture Style) using an 8 GB card. These figures vary depending on the subject, card brand, aspect ratio, ISO speed, Picture Style, Custom Functions, and other settings.

- \* Figures in parentheses apply to a UHS-I class 16 GB card conforming to Canon's testing standards.
- "Full" indicates that shooting is possible until the card no longer has any free space (card is full).



#### ? FAQ

 I want to select the image-recording quality matching the paper size for printing.

#### Paper size



Refer to the diagram on the left when choosing the image-recording quality. If you want to crop the image, selecting a higher quality (more pixels) such as  $\blacksquare L$ ,  $\blacksquare L$ ,  $\blacksquare L$ , or a state of L, or  $\blacksquare L$ , or  $\blacksquare L$ , or  $\blacksquare L$ , or  $\blacksquare L$ , or a state of L, or  $\blacksquare L$ , or  $\blacksquare L$ , or  $\blacksquare L$ , or a state of L, or  $\blacksquare L$ , or  $\blacksquare L$ , or  $\blacksquare L$ , or a state of L, or a s

A4 (29.7x21 cm/11.7x8.3 in.)

12.7x8.9 cm/5.0x3.5 in.

#### What's the difference between *a* and *a*?

These settings indicate the different levels of image quality caused by different compression rates. The  $\blacksquare$  setting produces a higher image quality with the same number of pixels. Although  $\blacksquare$  produces a slightly lower image quality, this allows more images to be saved on the card. **S2** will be in  $\blacksquare$  (Fine) quality.

#### I was able to take more shots than the number of possible shots indicated.

Depending on the shooting conditions, you may be able to take more shots than is indicated. On the contrary, it may also be fewer than indicated. The number of possible shots displayed is only approximate.

#### Does the camera display the maximum burst?

The maximum burst is displayed on the viewfinder's right side. Since it is only a single-digit indicator  $\mathbf{0} - \mathbf{9}$ , any number higher than 8 will be displayed only as " $\mathbf{9}$ ". Note that this number will also be displayed even when no card is installed in the camera. Be careful not to shoot without a card in the camera.

#### When should I use IMM ?

with images must be processed on a computer. For details, see " $\mathbb{R}$  and " $\mathbb{R}$  and " $\mathbb{R}$  and " $\mathbb{R}$  on the next page.

#### RAW

#### RAW +

 $\mathbb{RW} + \mathbb{L}$  records a  $\mathbb{RW}$  image and a  $\mathbb{L}$  image with a single shot. The two images are saved to the card simultaneously. The two images will be saved in the same folder with the same file numbers (file extension .JPG for JPEG and .CR2 for RAW).  $\mathbb{AL}$  images can be viewed or printed even with a computer that does not have EOS software installed.



#### RAW Image Processing Software

- To display RAW images on a computer, using Digital Photo Professional (hereafter DPP, EOS software) is recommended (p.444).
- Previous versions of DPP Ver.4.x cannot process RAW images taken with this camera. If a previous version of DPP Ver.4.x is installed on your computer, obtain and install the latest version of DPP from the Canon Web site to update it. (The previous version will be overwritten.) Note that DPP Ver.3.x or earlier cannot process RAW images taken with this camera.
- Commercially-available software may not be able to display RAW images taken with this camera. For compatibility information, contact the software manufacturer.

## |SO : Setting the ISO Speed for Still Photos \*

Set the ISO speed (image sensor's sensitivity to light) to suit the ambient light level. In Basic Zone modes, the ISO speed is set automatically. Regarding the ISO speed during movie shooting, see pages 236 and 239.





4		100		0	•
	AUTO	100	200	400	8

#### Set the ISO speed.

 While looking in the viewfinder or at the LCD monitor, press the <◄>
 <►> keys or turn the <</li>
 >> dial to select the desired ISO speed, then press <SET>.

Press the <ISO> button ( $\emptyset$ 6).

- ISO speed can be set within ISO 100 -ISO 25600.
- With [**AUTO**] selected, the ISO speed will be set automatically (p.133).
- When setting under [D2: DISO speed] (shown on the left), you can press the <INFO> button to set the ISO speed to [AUTO].

#### **ISO Speed Guide**

ISO Speed	Shooting Situation (No flash)	Flash Range
ISO 100 - ISO 400	Sunny outdoors	<b>T</b>
ISO 400 - ISO 1600	Overcast skies or evening time	The higher the ISO speed, the farther the effective flash range will be (p.182).
ISO 1600 - ISO 25600, H	Dark indoors or night	range wiii be (p. 162).

\* High ISO speeds will result in grainier images.

You can also set with [D2: DISO speed].

 Under [44: Custom Functions (C.Fn)], if [2: ISO expansion] is set to [1:On], "H" (equivalent to ISO 51200) can also be selected (p.366).

- Under [¥4: Custom Functions (C.Fn)], if [4: Highlight tone priority] is set to [1:Enable], ISO 100 and "H" (equivalent to ISO 51200) cannot be selected (p.367).
  - Shooting in high temperatures may result in images that look grainier. Long exposures can also cause irregular colors in the image.
  - When you shoot at high ISO speeds, noise (such as dots of light and banding) may become noticeable.
  - If you use a high ISO speed and flash to shoot a close subject, overexposure may result.
  - When shooting in conditions that produce an extreme amount of noise, such as a combination of high ISO speed, high temperature, and long exposure, images may not be recorded properly.
  - As "H" (equivalent to ISO 51200) is an expanded ISO speed setting, noise (dots of light, banding, etc.) and irregular colors will be more noticeable, and the resolution will be lower compared to the standard setting.

#### Automatic ISO speed setting: ISO [AUTO]



- If the ISO speed is set to [AUTO], the actual ISO speed setting will be displayed in the viewfinder or on the LCD monitor when you press the shutter button halfway.
- When [AUTO] is set, the ISO speed is indicated in whole-stop increments. However, the ISO speed is actually set in finer increments. Therefore, in the image's shooting information (p.349), you may find an ISO speed such as ISO 125 or ISO 640 displayed as the ISO speed.

#### MENU Setting the Maximum ISO Speed for [AUTO]\*

For ISO Auto, you can set the maximum ISO speed limit within ISO 400 - ISO 25600.

Shooting sett	ings
1 2 3 4	5H0012
	Max.:400
	Max.:800
	Max.:1600
	Max.:3200
	Max:6400
DISO Auto	Max.:12800
	Max:25600

Under the [□2] tab, select [□ISO Auto], then press <SET>. Select the ISO speed, then press <SET>.

## Selecting a Picture Style \*

Just by selecting a preset Picture Style, you can obtain image characteristics effectively matching your photographic expression or the subject.



#### **Picture Style Characteristics**

#### 🛋 Auto

The color tone will be adjusted automatically to suit the scene. The colors will look vivid for blue skies, greenery and sunsets, particularly in nature, outdoor and sunset scenes.

If the desired color tone is not obtained with [Auto], use another Picture Style.

#### Standard

The image looks vivid, sharp, and crisp. This is a general-purpose Picture Style suitable for most scenes.

#### Portrait

For nice skin tones. The image looks softer. Suited for close-up portraits. By changing the [**Color tone**] (p.139), you can adjust the skin tone.

#### 🖳 Landscape

For vivid blues and greens, and very sharp and crisp images. Effective for impressive landscapes.

#### 🕮 Fine Detail

Suited for detailed outline and fine texture description of the subject. The colors will be slightly vivid.

#### Neutral

Geared for users who prefer to process images with their computer. For natural colors and subdued images with modest brightness and color saturation.

#### 🖅 Faithful

Geared for users who prefer to process images with their computer. The color of a subject that is captured in ambient light at a color temperature of 5200K will be adjusted to match the subject's colorimetrical color. For subdued images with modest brightness and color saturation.

#### Monochrome

Creates black-and-white images.

Black-and-white images shot in JPEG cannot be turned into color. Be careful not to leave the [Monochrome] setting on when you want to shoot photos in color again.

You can set the camera to display <!> in the viewfinder for when [Monochrome] is set (p.369).

#### 📰 User Defined 1-3

You can register a basic style such as [**Portrait**], [**Landscape**], a Picture Style file, etc. and adjust it as desired (p.141). With any of the User Defined Picture Style that has not yet been set, pictures will be taken with the same characteristics settings as with the default settings of [**Auto**].

#### Symbols

The Picture Style selection screen has icons for [Strength], [Fineness], or [Threshold] for [Sharpness] as well as [Contrast] and other parameters. The numerals indicate the values for these parameters set for the respective Picture Style.

Picture Style	6.6.6.0.&.0
EEA Auto	3.4.4.0.0.0
ESS Standard	3,4,4,0,0,0
EEP Portrait	2,4,4,0,0,0
EllLandscape	4,4,4,0,0,0
EEE Fine Detail	4,1,1,0,0,0
EEM Neutral	0,2,2,0,0,0
INFO Detail set.	SET OK

Picture Style	6.6.6.0.0.0	
Fine Detail	4.1.1.0.0.0	
ESS Neutral	0,2,2,0,0,0	12
ESE Faithful	0,2.2.0.0.0	
ESM Monochrome	3,4,4,0,N,N	
EI User Def. 1	Auto	-
E2User Def. 2	Auto	۳
INFO Detail set.	SET OF	(

#### Symbols

	Sharp	ness		
0	ß	Strength		
U	G	Fineness		
	G	Threshold		
	Contrast			
00	Saturation			
	Color tone			
۲	Filter e	Filter effect (Monochrome)		
Ø	Toning	g effect (Monochrome)		

Uuring movie shooting, " \* " will be displayed for both [Fineness] and [Threshold] for [Sharpness]. [Fineness] and [Threshold] will not be applied to movies.

## Customizing a Picture Style \*

You can customize the Picture Styles. You can change or adjust the parameter settings of Picture Styles such as [Strength], [Fineness], or [Threshold] for [Sharpness] as well as [Contrast] and other parameters from the default settings. To see the resulting effects, take test shots. To customize [Monochrome], see page 140.

Picture Style	6,6,6,0,&,0	
EEAAuto	3,4,4,0,0,0	
E35 Standard	3,4,4,0,0,0	1
EEP Portrait	2,4,4,0,0,0	
ET Landscape	4,4,4,0,0,0	
EEE Fine Detail	4,1,1,0,0,0	-
EN Nostral	0,2,2,0,0,0	1
INFO Detail set	SET O	K)

#### Select [Picture Style].

- Under the [**1**4] tab, select [**Picture Style**], then press < SET >.
- The Picture Style selection screen will appear.

#### Select a Picture Style.

 Select a Picture Style, then press the <INFO> button.



GStrength	_
• 0 <del></del> 9 •	

Picture Style	6.6.6.0.&.0
Auto	3,4,4,0,0,0
Standard	3,4,4,0,0,0
Portrait	3,4,4,0,0,0
ETTLandscape	4,4,4,0,0,0
EER Fine Detail	4,1,1,0,0,0
ESS Neutral	0,2,2,0,0,0
INFO Detail set.	SET OK

#### Select a parameter.

- Select the parameter (such as [Strength] of [Sharpness]) to be set, then press <SET>.
- See page 139 for settings and effects.

#### Set the parameter.

- Press the < ◀> < ►> keys to adjust the effect of the parameter, then press < SET >.
- Press the <MENU> button to save the adjusted parameter settings. The Picture Style selection screen will reappear.
- The value of parameter settings different from the default will be displayed in blue.

#### **Parameter Settings and Effects**

	Sharpness		
0	Strength	0: Weak outline emphasis	7: Strong outline emphasis
	Fineness <sup>*1</sup>	1: Fine	5: Grainy
	Threshold <sup>*2</sup>	1: Low	5: High
$\bullet$	Contrast	-4: Low contrast	+4: High contrast
00	Saturation	-4: Low saturation	+4: High saturation
	Color tone	-4: Reddish skin tone	+4: Yellowish skin tone

\*1: Indicates the fineness of the outlines to be emphasized. The smaller the number, the finer the outlines that can be emphasized.

\*2: Sets how much the outline is emphasized based on the difference in contrast between the subject and the surrounding area. The smaller the number, the more the outline will be emphasized when the contrast difference is low. However, noise tends to be more noticeable when the number is smaller.

For movie shooting, [Fineness] and [Threshold] for [Sharpness] cannot be set (not displayed).

- By selecting [Default set.] in step 3, you can revert the parameter settings of the respective Picture Style to their defaults.
- To shoot with the Picture Style you adjusted, first select the adjusted Picture Style, then shoot.

#### Monochrome Adjustment

Besides the effects described on the preceding page such as [Contrast], or [Strength], [Fineness] and [Threshold] for [Sharpness], you can also set [Filter effect] and [Toning effect].

#### Filter effect

	IN:None
	Ye:Yellow
	Or:Orange
SFilter effect	R:Red
	G:Green

With a filter effect applied to a monochrome image, you can make white clouds or green trees stand out more than the original.

Filter	Sample Effects
N: None	Normal black-and-white image with no filter effects.
Ye: Yellow	The blue sky will look more natural, and the white clouds will look crisper.
Or: Orange	The blue sky will look slightly darker. The sunset will look more brilliant.
R: Red	The blue sky will look quite dark. Fall leaves will look crisper and brighter.
G: Green	Skin tones and lips will appear muted. Green tree leaves will look crisper and brighter.

Increasing the [Contrast] will make the filter effect more pronounced.

#### Toning effect

	IN:None
	S:Sepia
	B:Blue
	P:Purple
Toning effect	G:Green

By applying a toning effect, you can create a monochrome image in the selected color. Effective when you want to create more impressive images. The following can be selected: [N:None], [S:Sepia], [B:Blue], [P:Purple] or [G:Green].

## Sin Registering a Picture Style <sup>★</sup>

You can select a base Picture Style such as [**Portrait**] or [**Landscape**], adjust its parameters as desired and register it under [**User Def. 1**], [**User Def. 2**], or [**User Def. 3**]. Useful when you want to preset multiple Picture Styles with different settings.

You can also adjust the parameters of a Picture Style that is registered to the camera with EOS Utility (EOS software, p.444) here.







EENNeutral	0.2.2.0.0.0	1
应用 Faithful	0,2,2,0,0,0	00
Monochrome	3.4.4.0.N.N	
EI User Def. 1	Landscape	
EE2 User Def. 2	Auto	-
User Def. 3	Auto	0

#### Select a parameter.

 Select the parameter (such as [Strength] of [Sharpness]) to be set, then press <SET >.

#### Set the parameter.

- Press the < ◀> < ►> keys to adjust the effect of the parameter, then press < SET>.
   For details, see "Customizing a Picture Style" (p.138-140).
- Press the <MENU> button to register the adjusted parameter settings. The Picture Style selection screen will then reappear.
- The base Picture Style will be indicated on the right of [User Def. \*].
- If a Picture Style is already registered under [User Def. \*], changing the base Picture Style in step 4 will clear the parameter settings of the previously registered User Defined Picture Style.
  - If you perform [Clear all camera settings] under [¥4: Clear settings] (p.298), all the [User Def. \*] styles and settings will revert to their defaults. Any Picture Style registered via EOS Utility (EOS software) will have only its modified parameters reverted to the default setting.
- To shoot with a registered Picture Style, follow step 2 on page 135 to select [User Def. \*], then shoot.
  - Regarding the procedure to register a Picture Style file to the camera, refer to the EOS Utility Instruction Manual.

## WB: Matching the Light Source $\star$

White balance (WB) is for making the white areas look white. Normally, the Auto [WB] (Ambience priority) or [WBW] (White priority) setting will obtain the correct white balance. If natural-looking colors cannot be obtained with Auto, you can select the white balance to match the light source or set it manually by shooting a white object.

In Basic Zone modes, [AWB] (Ambience priority) is set automatically. (In the <¶4> mode, [AWB w] (White priority) is set.)



#### White Balance

To the human eye, a white object looks white regardless of the type of lighting. With a digital camera, the white for color correction basis is decided depending on the color temperature of the illumination, and then the color is adjusted with software to make the white areas look white. With this function, you can take the pictures with natural color tones.

#### Auto White Balance

With [IMB] (Ambience priority), you can increase the intensity of the image's warm color cast when shooting a tungsten-light scene. If you select [IMB w] (White priority), you can reduce the intensity of the image's warm color cast.

If you want to match the Auto white balance of previous EOS DIGITAL camera models, select [[]] (Ambience priority).



#### Cautions for Setting [I w w] (White priority)

- The warm color cast of subjects may fade.
- When multiple light sources are included on the screen, the warm color cast of the picture may not be reduced.
- When using flash, the color tone will be the same as with [IMB] (Ambience priority).
#### Custom White Balance

With custom white balance, you can set the white balance for the specific light source of the shooting location. Make sure to perform this procedure under the light source at the actual location of the shoot.

Metering mode		
Auto Lighting Opt	imizer	15g
White balance	0003	
Custom White Bal	ance	
WB Shift/Bkt.	0,0/±0	
Color space	sRGB	
	N	IENU 🗈

15			
	SET 👥	MENU 20	

### Shoot a white object.

- Look through the viewfinder and aim the entire dotted line box (shown in the illustration) over a plain, white object.
- Focus manually and shoot with the standard exposure set for the white object.
- You can use any of the white balance settings.

## Select [Custom White Balance].

Under the [<sup>1</sup>] 3] tab, select [Custom White Balance], then press <SET>.
 The custom white balance selection screen will appear.

### Import the white balance data.

- Select the image captured in step 1, then press <SET >.
- On the dialog screen that appears, select [OK], and the data will be imported.
- When the menu reappears, press the <MENU> button to exit the menu.



## Select [ 🗠 (Custom)].

- Under the [13] tab, select [White balance], then press <SET >.
- Select [ ▲ (Custom)], then press < SET >.

 If the exposure obtained in step 1 differs greatly from the standard exposure, a correct white balance may not be obtained.

 In step 3, the following images cannot be selected: Images captured with the Picture Style set to [Monochrome] (p.136), images shot with a Creative filter, images processed with a Creative filter after shooting, cropped images, and images shot with another camera.

## ₩ Adjusting the Color Tone for the Light Source \*

You can correct the white balance that is set. This adjustment will have the same effect as using a commercially-available color temperature conversion filter or color compensating filter. Each color can be corrected to one of nine levels.

This function is for advanced users, particularly for those users who understand the use of color temperature conversion and color compensating filters and their effects.

## White Balance Correction





#### Sample setting: A2, G1



### Select [WB Shift/Bkt.].

- Under the [**1**3] tab, select [**WB Shift/Bkt**.], then press <SET >.
- The WB correction/WB bracketing screen will appear.

### Set the white balance correction.

- Press the <▲> <▼> or <◀> <►> keys to move the "■" mark to the appropriate position.
- B is for blue, A for amber, M for magenta, and G for green. The image's color balance will be adjusted toward the color in the direction of the move.
- On the right of the screen, "Shift" indicates the direction and correction amount, respectively.
- Pressing the < m > button will cancel all the [WB Shift/Bkt.] settings.
- Press < SET > to exit the setting and return to the menu.
- You can set the camera to display <!> in the viewfinder and on the LCD monitor for when white balance correction is set (p.369).
  - One level of the blue/amber correction is equivalent to approx. 5 mireds of a color temperature conversion filter. (Mired: Unit of measure for color temperature used to indicate values such as the density of a color temperature conversion filter.)

### White Balance Auto Bracketing

With just one shot, three images with different color tones can be recorded simultaneously. Based on the color temperature of the current white balance setting, the image will be bracketed with a blue/amber bias and magenta/green bias. This function is called white balance bracketing (WB Bkt.). White balance bracketing is possible up to  $\pm 3$ levels in single-level increments.



B/A bias ±3 levels



#### Set the white balance bracketing amount.

- In step 2 for "White Balance Correction", when you turn the < >> dial, the "" mark on the screen will change to "" = " (3 points). Turning the dial clockwise sets the B/ A bracketing, and turning it counterclockwise sets the M/G bracketing.
- On the right, "Bracket" indicates the bracketing direction and correction amount.
- Pressing the < m > button will cancel all the [WB Shift/Bkt.] settings.
- Press SET > to exit the setting and return to the menu.

### Bracketing Sequence

The images will be bracketed in the following sequence: 1. Standard white balance, 2. Blue (B) bias, and 3. Amber (A) bias, or 1. Standard white balance, 2. Magenta (M) bias, and 3. Green (G) bias.

- During white balance bracketing, the maximum burst will be lower and the number of possible shots will also decrease to approx. one-third the normal number.
  - Since three images are recorded for one shot, it takes longer to record the image to the card.

You can also set white balance correction and AEB together with white balance bracketing. If you set AEB in combination with white balance bracketing, a total of nine images will be recorded for a single shot.

- During Live View shooting, the white balance icon will blink.
- "Bkt." stands for bracketing.

## MENU Auto Correction of Brightness and Contrast \*

If the image comes out dark or the contrast is low, the brightness and contrast can be corrected automatically. This function is called Auto Lighting Optimizer. The default setting is [**Standard**]. With JPEG images, the correction is applied when the image is captured. In Basic Zone modes, [**Standard**] is set automatically.



necessary.

 Under [¥4: Custom Functions (C.Fn)], if [4: Highlight tone priority] is set to [1:Enable], [Auto Lighting Optimizer] will be set automatically to [Disable].

- If a setting other than [Disable] is set and you use exposure compensation or flash exposure compensation to darken the exposure, the image may still come out bright. If you want a darker exposure, set this function to [Disable].
- Depending on the shooting conditions, noise may increase.

In step 2, if you press the <INFO> button and remove the checkmark [√] for [Disable during man expo] setting, the Auto Lighting Optimizer can also be set in the <M> mode.

## MENU Setting Noise Reduction \*

## **High ISO Speed Noise Reduction**

This function reduces the noise generated in the image. Although noise reduction is applied at all ISO speeds, it is particularly effective at high ISO speeds. When shooting at low ISO speeds, the noise in the darker parts of the image (shadow areas) can further be reduced. Change the setting to match the noise level.



#### [

Applies the noise reduction with higher image quality than [**High**]. For a single photo, four shots are taken continuously and aligned and merged automatically into a single JPEG image.

If the image-recording quality is set to **CAW** or **CAW** + **L**, you cannot set [Multi Shot Noise Reduction].



#### Take the picture.

• The image will be recorded with noise reduction applied.

Vou can set the camera to display <!> in the viewfinder for when Multi Shot Noise Reduction is set (p.369).

## When [Multi Shot Noise Reduction] is Set

- If there is significant misalignment in the image due to camera shake, the noise reduction effect may become smaller.
- If you are handholding the camera, keep it steady to prevent camera shake. Using a tripod is recommended.
- If you shoot a moving subject, the moving subject may leave afterimages.
- The image alignment may not function properly with repetitive patterns (lattice, stripes, etc.) or flat, single-tone images.
- If the subject's brightness changes as the four consecutive shots are taken, irregular exposure in the image may result.
- After shooting, it may take some time to record an image to the card after performing noise reduction and merging the images. During the image processing, "buSY" will be displayed in the viewfinder, and you cannot take another picture until the processing is complete.
- You cannot use AEB and white balance bracketing.
- If [D4: Long exp. noise reduction], AEB, or white balance bracketing is set, [Multi Shot Noise Reduction] cannot be set.
- The [Distortion] setting will be set automatically to [Disable].
- Flash photography is not possible. However, the AF-assist beam will be emitted according to the setting of [5: AF-assist beam firing] under [¥4: Custom Functions(C.Fn)].
- You cannot set [Multi Shot Noise Reduction] for bulb exposures.
- If you turn off the power, change the shooting mode to a Basic Zone mode, shoot a bulb exposure, or shoot a movie, the setting will automatically be changed to [Standard].
- [D4: Dust Delete Data] cannot be set.

#### Long Exposure Noise Reduction

Noise reduction is possible with images exposed for 1 sec. or longer.



# Select [Long exp. noise reduction].

 Under the [12] 4] tab, select [Long exp. noise reduction], then press <SET>.



## Set the desired setting.

Select the desired setting, then press <SET>.

#### [Auto]

For exposures of 1 sec. or longer, noise reduction is performed automatically if noise typical of long exposures is detected. This [**Auto**] setting is effective enough in most cases.

#### [Enable]

Noise reduction is performed for all exposures of 1 sec. or longer. The **[Enable]** setting may reduce noise that cannot be detected with the **[Auto]** setting.

Take the picture.

The image will be recorded with noise reduction applied.

- With [Auto] or [Enable] set, the noise reduction process after the picture is taken may take the same amount of time as that for the exposure. You cannot take another picture until the noise reduction process is complete.
  - Images taken at ISO 1600 or higher may look grainier with the [Enable] setting than with the [Disable] or [Auto] setting.
  - With [Auto] or [Enable] set, if a long exposure is used with the Live View image displayed, "BUSY" will be displayed during the noise reduction process. The Live View display will not appear until the noise reduction is complete. (You cannot take another picture.)

# MENU Correction of Lens Aberrations due to Optical Characteristics \*

Peripheral light fall-off is a phenomenon that makes the image corners look darker due to the optical characteristics of the lens. Color fringing along subject outlines is called chromatic aberration. Image distortion due to optical characteristics of the lens is called distortion. And decreased image sharpness due to the aperture is called diffraction phenomenon. These lens aberrations can be corrected.

By default, [Peripheral illum corr], [Chromatic aberr corr], and [Diffraction correction] are set to [Enable], and [Distortion correction] is set to [Disable].

If the lens correction data is registered (saved) in the camera, peripheral illumination correction, chromatic aberration correction, and diffraction correction will be applied even in Basic Zone modes. If the setting screen displays [Correction data not available] or the [🗟] icon, it means that the correction data for the respective lens is not registered in the camera. See "Lens Correction Data" on page 157.

## **Peripheral Illumination Correction**

OFF

ON

MENU TO

Shooting setting	101
2 3 4	94001
Expo.comp./AEB	3.2.1.0.1.2.3
Lens aberration cor	rection -
Flash control	
Red-eye reduc.	Disable
CISO speed	Auto
DISO Auto	Max::6400
	MENU 3
ens aberration cor	rection
Lens aberration cor EF-S18-55mm f/4- Peripheral illum cor	5.6 IS STM

Distortion correction

Diffraction correction

# Select [Lens aberration correction].

 Under the [D2] tab, select [Lens aberration correction], then press <SET>.

## Select [Peripheral illum corr].

EF-S18-55mm f/4	-5.6 IS STM
Correction data ava	ailable
Enable	ON
CHONIC	

## Select [Enable].

- Check that [Correction data available] is displayed for the attached lens.
- Select [Enable], then press < SET >.

## 🚹 Take the picture.

 The image will be recorded with the peripheral illumination corrected.

 Depending on shooting conditions, noise may appear on the image periphery.

- The higher the ISO speed, the lower the correction amount will be.
- If you use the magnified view during Live View shooting, the peripheral illumination correction will not be reflected in the image displayed on the screen.

The correction amount applied will be slightly lower than the maximum correction amount that can be applied with Digital Photo Professional (EOS software, p.444).

## **Chromatic Aberration Correction**

EF-S18-55mm f/4-5.	6 IS STM
Correction data availa	ble
Enable	ON
Disable	OFF

## Select [Chromatic aberr corr].

### Select [Enable].

- Check that [Correction data available] is displayed for the attached lens.
- Select [Enable], then press < SET >.



#### Take the picture.

The image will be recorded with the chromatic aberration corrected.

## **Distortion Correction**



## Select [Distortion correction].

#### Select [Enable].

- Check that [Correction data available] is displayed for the attached lens.
- Select [Enable], then press < SET >.

#### Take the picture.

• The image will be recorded with the distortion corrected.

- Since distortion correction is applied, the camera records an image range narrower than the one seen through the viewfinder. (The image periphery is slightly trimmed and the resolution looks slightly lowered.)
  - Distortion correction will be reflected in the captured image, but it cannot be seen in the viewfinder during shooting.
  - Distortion correction cannot be set during movie shooting or when Multi Shot Noise Reduction is set.
  - Using distortion correction during Live View shooting will slightly affect the angle of view.
  - When you magnify the image during Live View shooting, distortion correction is not applied to the image displayed. Therefore, magnifying the periphery of the image may display parts of the image that will not be recorded.
  - Images with distortion correction applied will not have the Dust Delete Data (p.304) appended. Also, the AF point(s) will not be displayed (p.349) for image playback.

#### **Diffraction Correction**



## Select [Diffraction correction].

## Select [Enable].

Select [Enable], then press < SET >.

#### Take the picture.

- The image will be recorded with the diffraction corrected.
- Depending on shooting conditions, noise may be intensified together with the effects of correction.
  - The higher the ISO speed, the lower the correction amount will be.
  - Diffraction correction will not be applied to the Live View image.
  - For movie shooting, [Diffraction correction] will not appear. (Correction is not possible.)

With "Diffraction correction", degraded resolution due to the low-pass filter, etc. is corrected in addition to diffraction. Therefore, correction is effective even at an aperture close to the open aperture.

#### **Lens Correction Data**

The lens correction data for lens aberration corrections is registered (stored) in the camera. With [**Enable**] selected, the peripheral illumination correction, chromatic aberration correction, distortion correction, and diffraction correction will be applied automatically.

With EOS Utility (EOS software, p.444), you can check which lenses have their correction data registered in the camera. You can also register the correction data for unregistered lenses. For details, refer to the EOS Utility Instruction Manual.

For lenses incorporating the correction data, it is not necessary to register the correction data to the camera.

## General Cautions for Lens Aberration Correction

- Peripheral illumination correction, chromatic aberration correction, distortion correction, and diffraction correction cannot be applied to JPEG images already taken.
- When using a non-Canon lens, setting the corrections to [**Disable**] is recommended even if [**Correction data available**] is displayed.
- The correction amount will be less (except for diffraction correction) if the lens used does not have distance information.

## General Notes for Lens Aberration Correction

- The effect of the lens aberration correction varies depending on the lens used and shooting conditions. Also, the effect may be difficult to discern depending on the lens used, shooting conditions, etc.
- If the effect of the correction is not visible, magnify the image after shooting and check it again.
- Corrections can be applied even when an extender or life-size converter is attached.
- If the correction data for the attached lens is not registered to the camera, the result will be the same as when the correction is set to [Disable] (except for diffraction correction).
- In Basic Zone modes, peripheral illumination correction, chromatic aberration correction, and diffraction correction will be applied automatically. Distortion correction will be applied automatically only in the < # > mode.

## MENU Setting the Color Reproduction Range \*

The range of reproducible colors is called "color space". With this camera, you can set the color space for captured images to sRGB or Adobe RGB. For normal shooting, sRGB is recommended. In Basic Zone modes, **[sRGB]** is set automatically.



### Adobe RGB

This color space is mainly used for commercial printing and other industrial uses. This setting is not recommended if you are not familiar with image processing, Adobe RGB, and Design rule for Camera File System 2.0 (Exif 2.21 or higher). The image will look very subdued in an sRGB computer environment and with printers not compliant to Design rule for Camera File System 2.0 (Exif 2.21 or higher). Post-processing of the image with computer software will therefore be required.

- If the still photo is shot in the Adobe RGB color space, the first character in the file name will be an underscore "\_".
  - The ICC profile is not appended. For explanations about the ICC profile, refer to the Digital Photo Professional Instruction Manual.


# Advanced Operations for Photographic Effects



In Creative Zone modes, you can change various settings of the camera as you desire to obtain a wide variety of shooting results, by selecting the shutter speed and/or aperture, adjusting the exposure as you prefer, etc.

- The ☆ icon at the upper right of the page title indicates that the function is available only in Creative Zone modes.
- After you press the shutter button halfway and let it go, the exposure settings will remain displayed in the viewfinder for approx. 4 sec. (<sup>\*</sup><sub>0</sub>4) by the metering timer function.
- For the functions settable in each shooting mode, see page 396.

## Main Dial Pointer



The pointer icon  $< \not \sim >$  displayed together with the shutter speed or

aperture setting indicates that you can turn the <  $\gtrsim$  > dial to adjust the respective setting.

## P: Program AE

The camera automatically sets the shutter speed and aperture to suit the subject's brightness. This is called Program AE.

- \* <**P**> stands for Program.
- \* AE stands for Auto Exposure.





## (25 5.) <sup>-2</sup>n1n<mark>1</mark>n1n12 150 2000 (2).•

## Set the Mode Dial to <**P**>.

### Focus on the subject.

- Look through the viewfinder and aim the AF point over the subject. Then press the shutter button halfway.
- When focus is achieved, the dot inside the AF point achieving focus lights up briefly in red, and the focus indicator < •> on the viewfinder's bottom right will light up (in One-Shot AF mode).
- The shutter speed and aperture will be set automatically and displayed in the viewfinder.

## Check the display.

• The standard exposure will be obtained as long as the shutter speed and aperture displays do not blink.



Compose the shot and press the shutter button completely.

If a description of the shooting mode appears in step 1, press <SET > to hide it (p.55).

## Shooting Tips

#### • Change the ISO speed. Use the built-in flash.

To match the subject and ambient lighting level, you can change the ISO speed (p.132) or use the built-in flash (p.182). In the  $<\mathbf{P}>$  mode, the built-in flash will not fire automatically. Therefore, press the  $<\mathbf{4}>$  (flash) button to raise the built-in flash when indoors or shooting in low light.

#### Change the program using Program shift.

After pressing the shutter button halfway, turn the < 2 > dial to change the shutter speed and aperture setting combination (program). Program shift is canceled automatically after the picture is taken. Program shift is not possible with flash.



If the "**30**"" shutter speed and the lowest f/number blink, it indicates underexposure. Increase the ISO speed or use flash.

If the "**4000**" shutter speed and the highest f/number blink, it indicates overexposure. Decrease the ISO speed.

Differences Between <P> and < (▲) > (Scene Intelligent Auto) In the < (▲) > mode, many functions, such as the AF operation and metering mode, are set automatically to prevent spoiled shots. The functions you can set are limited. On the other hand, with <P> mode, only the shutter speed and aperture are set automatically. You can freely set the AF operation, metering mode, and other functions (p.390).

## Tv: Conveying the Subject's Movement

You can either freeze the action or create motion blur with the < Tv > (Shutter-priority AE) mode on the Mode Dial.

\* **<Tv** > stands for Time value.



Blurred motion (Slow shutter speed: 1/30 sec.)



Frozen motion (Fast shutter speed: 1/2000 sec.)







## Set the Mode Dial to < Tv >.

## Set the desired shutter speed.

- See "Shooting Tips" on the next page for advice on setting the shutter speed.
- Turning the < >> dial clockwise sets a faster shutter speed, and turning it counterclockwise sets a slower one.

#### Take the picture.

 When you focus and press the shutter button completely, the picture will be taken at the set shutter speed.

### Shutter Speed Display

The LCD monitor displays the shutter speed as a fraction. However, the viewfinder displays only the denominator. "0"5" indicates 0.5 sec. and "15"" is 15 sec.

## Shooting Tips

#### • To freeze the motion of a fast-moving subject

Use a fast shutter speed such as 1/4000 sec. to 1/500 sec. according to the speed of the moving subject.

To blur a running child or animal and convey an impression of motion

Use a medium shutter speed such as 1/250 sec. to 1/30 sec. Follow the moving subject through the viewfinder and press the shutter button to take the picture. If you use a telephoto lens, hold it steady to prevent camera shake.

#### To blur a flowing river or fountain

Use a slow shutter speed of 1/30 sec. or slower. Use a tripod to prevent hand-held camera shake.

#### Set the shutter speed so that the aperture display does not blink.

If you press the shutter button halfway and change the shutter speed with the aperture displayed, the aperture value will also change to maintain the same exposure (amount of light reaching the image sensor). In this operation, if the aperture value exceeds the adjustable range, it will blink to indicate that the standard exposure cannot be obtained.





If the exposure will be too dark, the maximum aperture (lowest f/number) will blink. If this happens, turn the < 200 > dial counterclockwise to set a slower shutter speed or increase the ISO speed.

If the exposure will be too bright, the minimum aperture (highest f/number) will blink. If this happens, turn the < 223 > dial clockwise to set a faster shutter speed or decrease the ISO speed.

## 4 Using the Built-in Flash

To obtain a correct flash exposure on the main subject, the flash output will be set automatically (autoflash) to match the automatically-set aperture. Note that the range of settable shutter speed will be limited within 1/200 sec. to 30 sec.

## Ay : Changing the Depth of Field

To blur the background or to make everything near and far look sharp, set the Mode Dial to  $\langle Av \rangle$  (Aperture-priority AE) to adjust the depth of field (range of acceptable focus).

\* < Av > stands for Aperture value (the size of the lens diaphragm opening).



Blurred background (With a low aperture f/number: f/5.6)



Sharp foreground and background (With a high aperture f/number: f/32)





## Set the desired aperture.

Set the Mode Dial to < Av >.

- The higher the f/number, the wider the depth of field where sharper focus is obtained in both the foreground and background.
- Turning the < >> dial clockwise sets a higher f/number (smaller aperture opening), and turning it counterclockwise sets a lower f/number (larger aperture opening).

### Take the picture.

When you focus and press the shutter button completely, the picture will be taken with the set aperture.



## Aperture Value Display

The higher the f/number, the smaller the aperture opening will be. The f/number displayed will differ depending on the lens. If no lens is attached to the camera, "00" will be displayed for the aperture.

## Shooting Tips

• When using an aperture with a high f/number or shooting in low light scenes, note that camera shake can occur.

A higher aperture f/number will make the shutter speed slower. Under low light, the shutter speed can be as long as 30 sec. In such cases, increase the ISO speed and hold the camera steady or use a tripod.

• The depth of field will vary depending not only on the aperture, but also on the lens and on the subject distance.

Since wide-angle lenses have a wide depth of field (range of acceptable focus in front of and behind the point of focus), you need not set a high aperture f/number to obtain a sharp picture from the foreground to the background. On the other hand, a telephoto lens has a narrow depth of field.

And the closer the subject, the narrower the depth of field. A farther subject will have a wider depth of field.

#### Set the aperture so that the shutter speed display does not blink.

If you press the shutter button halfway and change the aperture with the shutter speed displayed, the shutter speed will also change to maintain the same exposure (amount of light reaching the image sensor). In this operation, if the shutter speed exceeds the adjustable range, it will blink to indicate that the standard exposure cannot be obtained.



If the picture will be too dark, the "**30**" (30 sec.) shutter speed display will blink. If this happens, turn the < > dial counterclockwise to set a lower f/number or increase the ISO speed. If the picture will be too bright, the "**4000**" (1/4000 sec.) shutter speed display will blink. If this happens, turn the < > dial clockwise to set a higher f/number or decrease the ISO speed.

## 4 Using the Built-in Flash

To obtain a correct flash exposure, the flash output will be automatically controlled (autoflash) to match the set aperture. The shutter speed will be set automatically within the range of 1/200 sec. - 30 sec. to match the brightness of the scene.

In low light, the main subject is exposed with the autoflash, and the background is exposed with a slow shutter speed set automatically. The picture comes out with the standard exposure for both the subject and background with a touch of the atmosphere (automatic slow-speed flash sync). If you are handholding the camera, keep it steady to prevent camera shake. Using a tripod is recommended to prevent camera shake.

To prevent a slow shutter speed, under [**D**2: Flash control], set [Flash sync. speed in Av mode] to [1/200-1/60sec. auto] or [1/200 sec. (fixed)] (p.190).

## Depth-of-Field Preview \*

The aperture opening (diaphragm) changes only at the moment when the picture is taken. Otherwise, the aperture remains fully open. Therefore, when you look at the scene through the viewfinder or on the LCD monitor, the depth of field will look narrow.



Press the depth-of-field preview button to stop down the lens to the current aperture setting and check the depth of field (range of acceptable focus).

While looking at the Live View image (p.196) and holding down the depth-offield preview button, you can see how the range of acceptable focus will change as you adjust the aperture.

## M: Manual Exposure

You can set both the shutter speed and aperture manually as desired. While referring to the exposure level indicator in the viewfinder, you can set the exposure as desired. This method is called manual exposure. \* <M> stands for Manual.





Standard exposure index





## Set the Mode Dial to <M>.

Set the ISO speed (p.132).

## Set the shutter speed and aperture.

- To set the shutter speed, turn the <š > dial
- To set the aperture, turn the < 2 > dial while holding down the < Av ≥ button

## Focus on the subject.

- Press the shutter button halfway.
- The exposure setting will be displayed in the viewfinder.
- Check the exposure level mark < > to see how far the current exposure level is from the standard exposure level

## Set the exposure and take the picture.

- Check the exposure level indicator and set the desired shutter speed and aperture.
- If the exposure level exceeds ±2 stops from the standard exposure, the end of the exposure level indicator will display <4> or <>> in the viewfinder. (On the LCD monitor, if the exposure level exceeds  $\pm 3$  stops,  $\langle 4 \rangle$  or  $\langle b \rangle$  will be displayed.)

### **Exposure Compensation with ISO Auto**

If the ISO speed is set to [**AUTO**] for manual exposure shooting, you can set exposure compensation (p.174) as follows:

- [C2: Expo.comp./AEB]
- [5:Expo comp (hold btn, turn *\*\*\**)] with [9: Assign SET button] under [**4**: Custom Functions(C.Fn)] (p.371)
- Quick Control (p.58)
- If ISO Auto is set, the ISO speed setting will change to obtain the standard exposure with the set shutter speed and aperture. Therefore, you may not obtain the desired exposure effect. In such a case, set the exposure compensation.
  - If flash is used when ISO Auto is set, exposure compensation will not be applied even if an exposure compensation amount is set.
- Under [△3: Auto Lighting Optimizer], if the checkmark [√] for [Disable during man expo] is removed, Auto Lighting Optimizer can be set even in the <M> mode (p.149).
  - When ISO Auto is set, you can press the <★> button to lock the ISO speed.
  - If you press the <★> button and recompose the shot, you can see the exposure level difference on the exposure level indicator compared to when the <★> button was pressed.
  - If exposure compensation (p.174) was applied in <P>, <Tv>, or <Av> mode, the exposure compensation amount already set will still be maintained when the shooting mode is switched to <M> with ISO Auto set.

## 4 Using the Built-in Flash

To obtain a correct flash exposure on the main subject, the flash output will be set automatically (autoflash) to match the manually-set aperture. Note that the range of settable shutter speed will be limited within 1/200 sec. to 30 sec. or to bulb.

#### **BULB: Long (Bulb) Exposures**



A bulb exposure keeps the shutter open for as long as you hold down the shutter button. It can be used to shoot fireworks and other subjects requiring long exposures.

In step 3 on page 169, turn the < > dial to the left to set <**BULB**>. The elapsed exposure time will be displayed on the LCD monitor.

Do not point the camera toward an intense light source, such as the sun or an intense artificial light source. Doing so may damage the image sensor or the camera's internal components.

- Since long bulb exposures produce more noise than usual, the image may look slightly grainy.
- If ISO Auto is set, the ISO speed will be ISO 400.
- When shooting bulb exposures, if you use both the self-timer and mirror lockup, keep pressing the shutter button completely (for self-timer delay time + bulb exposure time). If you let go of the shutter button during the self-timer countdown, there will be a shutter-release sound, but no picture will be taken.
- You can reduce the noise due to long exposures by setting [14: Long exp. noise reduction] to [Auto] or [Enable] (p.151).
  - For bulb exposures, using a tripod and a remote switch (sold separately, p.385) is recommended.
  - You can also use Wireless Remote Control BR-E1 (sold separately, p.382) for bulb exposures. When you press the BR-E1's release button (transmit button), the bulb exposure will start immediately or 2 sec. later. Press the button again to stop the bulb exposure.
  - You can turn off the elapsed exposure time display by pressing the <DISP> button.

## (c) Changing the Metering Mode $\star$

Four methods (metering modes) to measure the subject's brightness are provided. Normally, evaluative metering is recommended. In Basic Zone modes, evaluative metering is set automatically. (In the **<SCN:**  $\square$  > and **<** $\bigcirc$ :  $\square$  > modes, center-weighted average metering is set.)



Evaluative metering

## Select [Metering mode].

Under the [ 13] tab, select [Metering mode], then press < SET >.

## Set the metering mode.

Select the desired metering mode, then press <SET >.

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۲

## Evaluative metering

General-purpose metering mode suited even for backlit subjects. The camera adjusts the exposure automatically to suit the scene.



## Partial metering

Effective where there are much brighter lights around the subject due to backlight, etc. The gray area in the left figure is approximately where the brightness is metered to obtain the standard exposure.



### • Spot metering

Effective when metering a specific part of the subject or scene. The gray area in the left figure is approximately where the brightness is metered to obtain the standard exposure. This metering mode is for advanced users.



### Center-weighted average metering

The metering is averaged for the entire scene with the screen center weighted more heavily. This metering mode is for advanced experts.

With (a) (Evaluative metering), the exposure setting will be locked when you press the shutter button halfway and focus is achieved. In the (c) (Partial metering), (c) (Spot metering), and (c) (Center-weighted average metering) modes, the exposure is set at the moment the picture is taken. (Pressing the shutter button halfway does not lock the exposure.)

## Setting the Desired Exposure Compensation $^{\star}$

Set exposure compensation if the results of shooting without using the flash are not as bright as expected. This feature can be used in Creative Zone modes (except < M >). You can set the exposure compensation up to ±5 stops\* in 1/3-stop increments.

If the  $<\mathbf{M}>$  mode and ISO Auto are both set, see page 170 to set the exposure compensation.

\* In Live View shooting/movie shooting, or when [D: Shooting screen] is set to [Guided], exposure compensation can be set up to ±3 stops.



# Check the exposure level indicator.

 Press the shutter button halfway (<sup>\*</sup><sub>0</sub>4) and check the exposure level indicator in the viewfinder or on the LCD monitor.

#### Set the compensation amount.

If the exposure is too dark, turn the
 Aial clockwise while holding down the < Av ≥ button (for increased exposure).</p>

If the exposure is too bright, turn the < > dial counterclockwise while holding down the < Av> button (for decreased exposure).

#### Take the picture.

To cancel the exposure compensation, set the compensation amount back to < >.





If [△3: Auto Lighting Optimizer] (p.149) is set to any setting other than [Disable], the image may still look bright even if a decreased exposure compensation for a darker image is set.

 The set exposure compensation level will not be applied to movie shooting.

- When you set the power switch to <OFF>, the exposure compensation setting will be canceled.
  - The exposure compensation amount displayed in the viewfinder goes up to only ±2 stops. If the exposure compensation amount exceeds ±2 stops, the end of the exposure level indicator will display <(> or <)>.
  - If you want to set exposure compensation exceeding ±2 stops, setting it with [D2: Expo.comp./AEB] (p.176) is recommended.

## MENU Auto Exposure Bracketing \*

This feature takes exposure compensation a step further by varying the exposure automatically in the range of  $\pm 2$  stops in 1/3-stop increments with three shots as shown below. You can then choose the best exposure. This is called AEB (Auto Exposure Bracketing).



Standard exposure



Darker exposure (Decreased exposure)



Brighter exposure (Increased exposure)





AEB range



## Select [Expo.comp./AEB].

Under the [D2] tab, select [Expo.comp./AEB], then press <SET >.

## Set the AEB range.

- Turn the < > dial to set the AEB range.
- Press the <◄> <►> keys to set the exposure compensation amount. If AEB is combined with exposure compensation, AEB will be applied centering on level of exposure compensation.
- Press < SET > to set it.
- When you press the shutter button halfway, the AEB range will be displayed in the viewfinder.

## Take the picture.

 Focus and press the shutter button completely, and the shots will be taken in the sequence of standard exposure, decreased exposure, and increased exposure.

## Canceling AEB

- Follow steps 1 and 2 to turn off the AEB range display (set to 0).
- The AEB setting will also be canceled automatically if the power switch is set to <OFF>, flash recharging is complete, etc.

## Shooting Tips

#### Using AEB with continuous shooting

If you set the drive mode to  $\langle \Box \rangle$  or  $\langle \Box \rangle$  (p.123) and press the shutter button completely, the three bracketed shots will be taken consecutively in the sequence of standard exposure, decreased exposure, and increased exposure, and then the camera will automatically stop shooting.

#### Using AEB with single shooting (□/□<sup>S</sup>)

Press the shutter button three times to take the three bracketed shots. The shots will be taken in the sequence of standard exposure, decreased exposure, and increased exposure.

#### Using AEB with the self-timer or a remote controller (sold separately)

With the self-timer ( $\langle \mathfrak{S}_{10} \rangle \langle \mathfrak{S}_{2} \rangle$ ), Wireless Remote Control BR-E1 < s> or Remote Switch RS-60E3, you can take three consecutive shots after a 10-sec. or 2-sec. delay. With <  $\delta_c$  > (p.125) set, the number of consecutive shots will be three times the number set.



● During AEB, < ★ > and AEB range in the viewfinder will blink.

- AEB cannot be used with flash, when [Multi Shot Noise Reduction] is set, for shooting with a Creative filter, or with bulb exposures.
- If [ 3: Auto Lighting Optimizer] (p.149) is set to any setting other than [Disable], the effect of AEB may be reduced.

## ★ Locking the Exposure \*

You can lock the exposure when you want to set the focus and exposure separately or when you are to take multiple shots at the same exposure setting. Press the  $< \frac{1}{2} >$  button to lock the exposure, then recompose and take the picture. This is called AE lock. It is effective for shooting backlit subjects, etc.





## Focus on the subject.

- Press the shutter button halfway.
- The exposure setting will be displayed.

## Press the $< \frac{1}{2} >$ button ((()4)).

- The < \* > icon lights up in the viewfinder to indicate that the exposure setting is locked (AE lock).
- Each time you press the < ★ > button, the current exposure setting is locked.

## Recompose and take the picture.

When you are to take more pictures while maintaining the AE lock, keep holding down the <★> button and press the shutter button to take another picture.

## AE Lock Effects

Metering	AF Point Selection Method (p.119)				
<b>Mode</b> (p.172)	Automatic Selection	Manual Selection			
*	AE lock is applied at the AF point that achieved focus.	AE lock is applied at the selected AF point.			
	AE lock is applied at the center AF point.				

\* When the lens's focus mode switch is set to <**MF**>, AE lock is implemented with the exposure weighting centered on the center AF point.

AE lock is not possible with bulb exposures.

## Mirror Lockup to Reduce Camera Vibration Blur $^{\star}$

You can use the mirror lockup function to prevent the disturbing mechanical vibrations (mirror shock) when shooting with super telephoto lenses or shooting close-ups (macro photography). Mirror lockup is enabled by setting [6: Mirror lockup] to [1:Enable] in [¥4: Custom Functions (C.Fn)] (p.369).

# 1 Focus on the subject, then press the shutter button completely.

The mirror will swing up.

## **2** Press the shutter button completely again.

- The picture is taken and the mirror goes back down.
- After taking the picture, set [6: Mirror lockup] to [0:Disable].

## Shooting Tips

### ● Using the self-timer <औ0>, <औ2> with mirror lockup

When you press the shutter button completely, the mirror locks up. The picture will be then taken 10 sec. or 2 sec. later.

#### Remote control shooting

Since you do not touch the camera when the picture is taken, remote control shooting together with mirror lockup can further reduce the camera vibration blur (p.382).

With Wireless Remote Control BR-E1 (sold separately) set to the 2sec. delay, press the release button to lock up the mirror, and the picture will be taken 2 sec. after the mirror lockup.

With Remote Switch RS-60E3 (sold separately), press the release button completely to lock up the mirror, and press it completely again to take the picture.

- Do not point the camera toward an intense light source, such as the sun or an intense artificial light source. Doing so may damage the image sensor or the camera's internal components.
  - In very bright light, such as at the beach or a ski slope on a sunny day, take the picture promptly after mirror lockup is stabilized.
  - When shooting with mirror lockup, if you use both the self-timer and bulb exposures, keep pressing the shutter button completely (for self-timer delay time + bulb exposure time). If you let go of the shutter button during the self-timer countdown, there will be a shutter-release sound, but no picture will be taken.
  - During mirror lockup, shooting function settings, menu operations, etc. are disabled.
  - When you use flash, the red-eye reduction lamp will not light up (p.183).
- Even if you set the drive mode to <□>, <□S>, or <♂c>, the camera will still shoot in single shooting mode.
  - When [14: High ISO speed NR] is set to [Multi Shot Noise Reduction], four consecutive shots will be taken for a single picture regardless of the [6: Mirror lockup] setting.
  - If approx. 30 sec. elapse after the mirror has locked up, it will go back down automatically. Pressing the shutter button completely locks up the mirror again.
  - When shooting with mirror lockup, using a tripod and Wireless Remote Control BR-E1 (sold separately, p.382) or Remote Switch RS-60E3 (sold separately, p.385) is recommended.
# Flash Photography

This chapter describes how to shoot with built-in flash and external Speedlites (EX-series, sold separately), and how to set flash settings on the camera's menu screen.



# 4 Using the Built-in Flash

In indoor, low light, or backlit conditions in daylight, just raise the built-in flash and press the shutter button to easily take beautiful pictures. In the  $<\mathbf{P}>$  mode, the shutter speed (1/60 sec. - 1/200 sec.) will be set automatically to prevent camera shake.







Press the <4> button.

"**\$ buSY**" is displayed in the viewfinder, and [**BUSY\$**] is displayed on the LCD monitor.

### Press the shutter button halfway.

In Creative Zone modes, you can press the < > button anytime to take

In the bottom left of the viewfinder, check that the <\$ > icon is displayed.



### Take the picture.

When focus is achieved and you press the shutter button completely, the flash will fire at all times.

### Effective Range of Built-in Flash

(Approx. in meters / feet)

	EF-S18-55mm f/4-5.6 IS STM			
ISO Speed (p.132)	Wide Angle	Telephoto		
(p. 102)	f/4	f/5.6		
ISO 100	1 - 2.5 / 3.3 - 8.2	1 - 1.8 / 3.3 - 5.9		
ISO 400	1 - 4.9 / 3.3 - 16.1	1 - 3.5 / 3.3 - 11.5		
ISO 1600	1.2 - 9.8 / 3.9 - 32.2	1 - 7.0 / 3.3 - 23.0		
ISO 6400	2.5 - 19.6 / 8.2 - 64.3	1.8 - 14.0 / 5.9 - 45.9		

\* When a high ISO speed is set and focusing distance is long, appropriate exposure may not be obtained depending on the subject conditions, etc.

# Shooting Tips

- In bright light, decrease the ISO speed.
   If the exposure setting in the viewfinder blinks, decrease the ISO speed.
- Detach the lens hood. Do not get too close to the subject. If the lens has a hood attached or you are too close to the subject, the bottom of the picture may look dark due to the obstructed flash light. For important shots, play back the image and check to make sure the picture does not look unnaturally dark at the bottom part.

## MENU Red-eye Reduction

Using the red-eye reduction lamp before taking a flash picture can reduce red eye.

hooting sett	lings	
3 4		5H0012
e reduc.	Disable	
	) Enable	
		76
	i a	e reduc. Disable

- Under the [**1**] tab in Basic Zone modes), select [**Red-eye** reduc.], then press <SET>.
- Select [Enable], then press < SET >.
- For flash photography, when you press the shutter button halfway, the red-eye reduction lamp will light up. Then when you press the shutter button completely, the picture will be taken.
- The red-eye reduction feature is more effective when the subject looks at the red-eye reduction lamp, when the room is well lit, or when you are close to the subject.
  - When you press the shutter button halfway, the scale display on the bottom of the viewfinder will gradually shrink toward the center to turn off. For



best results, take the picture after this scale display disappears.
The effectiveness of red-eye reduction varies depending on the individual subject.

### MENU Flash Exposure Compensation \*

Set the flash exposure compensation if the brightness of the subject does not come out as desired (so you want to adjust the flash output) in flash photography. You can set the flash exposure compensation up to  $\pm 2$  stops in 1/3-stop increments.



- When you press the shutter button halfway, the < 22 > icon will appear in the viewfinder.
- After taking the picture, cancel the flash exposure compensation by setting it back to 0.

- If [
   <sup>(1)</sup> 3: Auto Lighting Optimizer] (p.149) is set to any setting other than [Disable], the image may still look bright even if a decreased flash exposure compensation is set.
  - If flash exposure compensation is set with an external Speedlite (sold separately, p.187), you cannot set the flash exposure compensation with the camera (Quick Control or External flash function settings). If it is set with both the camera and external Speedlite, the Speedlite's setting overrides the camera's.

The compensation amount will be retained even after you set the power switch to <OFF>.

# ★ Locking the Flash Exposure (FE lock) \*

If the subject is at the edge of the screen, and you use flash, the subject may turn out to be too bright or dark depending on the background, etc. Use FE lock in such a case. After setting the flash output for the appropriate subject brightness, you can recompose (put the subject toward the side) and shoot. This feature can also be used with a Canon EX-series Speedlite.

\* FE stands for Flash Exposure.



## Press the <4> button.

- The built-in flash will be raised.
- Press the shutter button halfway and look in the viewfinder to check that the <\$> icon is lit.
- Focus on the subject.



## Press the $< \frac{1}{2} >$ button (16).

- Aim the viewfinder center over the subject where you want to lock the flash exposure, then press the <★> button.
- The flash will fire a preflash and the required flash output is calculated and retained in memory.
- In the viewfinder, "FEL" is displayed for a moment and < 4 \* > will light up.
- Each time you press the < ★ > button, a preflash is fired and the required flash output is calculated and retained in memory.

### Take the picture.

- Compose the shot and press the shutter button completely.
- The flash is fired, and the picture is taken.



- If the subject is too far away and the captured image comes out dark, the <\$> icon will blink. Move closer to the subject and repeat steps 2 to 4.
  - FE lock is not possible during Live View shooting.

# **4** Using an External Speedlite

# EOS-dedicated, EX-series Speedlites

Using an EX-series Speedlite (sold separately) makes flash photography easy.

For operation procedures, refer to the EX-series Speedlite's Instruction Manual. This camera is a Type-A camera that can use all the features of EX-series Speedlites.

To set the flash functions and flash Custom Functions on the camera's menu screen, see pages 189-194.



With an EX-series Speedlite not compatible with the flash function settings (p.189), only [Flash exp. comp] and [E-TTL II meter.] can be set for [External flash func. setting]. ([Shutter sync.] can also be set with certain EX-series Speedlites.)

### **Canon Speedlites Other Than the EX-series**

- With an EZ/E/EG/ML/TL-series Speedlite set to A-TTL or TTL autoflash mode, the flash is fired at full output at all times. Set the camera's shooting mode to <M> (manual exposure) or <Av> (aperture-priority AE) and adjust the aperture setting before shooting.
- When using a Speedlite that has manual flash mode, shoot in the manual flash mode.

# **Using Non-Canon Flash Units**

### Sync Speed

The camera can synchronize with compact, non-Canon flash units at 1/200 sec. or slower shutter speeds. Use a sync speed slower than 1/200 sec.

Be sure to test the flash unit beforehand to make sure it synchronizes properly with the camera.

## **Cautions for Live View Shooting**

A non-Canon flash will not fire during Live View shooting.

- If the camera is used with a flash unit or flash accessory dedicated to another camera brand, the camera not only may not operate properly, but malfunction may result.
  - Do not attach a high-voltage flash unit to the camera's hot shoe. It may not be fired.

# **MENU** Setting the Flash Function $\star$

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AUTO

MENU TO

3..2.1.原.1..2.3

Enable

Evaluative

With the built-in flash or an EX-series, external Speedlite compatible with the flash function settings, you can use the camera's menu screen to set flash functions and the external Speedlite's Custom Functions. If you use an external Speedlite, attach the Speedlite to the camera and turn on the Speedlite before setting the flash functions. For details on the external Speedlite's flash functions, refer to the Speedlite's instruction manual.

# Select [Flash control].

- Under the [12] tab, select [Flash control], then press < SET >.
- The Flash control screen will appear.

### Select the desired item.

 Select the menu option to be set, then press < SET >.

# Flash Firing

Clear settings

Shooting settings

Lens aberration correction Flash control

Flash sync. speed in Av mode

Expo.comp./AEB

Elash control

E-TTL II meter.

Built-in flash settings External flash func. setting External flash C.Fn setting

Flash firing



To enable flash photography, set [**Enable**]. To enable only the AF-assist beam to be emitted, set [**Disable**].

# E-TTL II Flash Metering

Flash control	
E-TTL II meter.	Evaluative
	) Average

For normal flash exposures, set it to [**Evaluative**]. If [**Average**] is set, the flash exposure will be averaged for the entire metered scene. Depending on the scene, flash exposure compensation may be necessary. This setting is for advanced users.

Even if [Flash firing] is set to [Disable], if focus is difficult to achieve in low light, the flash may still fire a series of flashes (AF-assist beam, p.117).

## Flash Sync. Speed in Av Mode

10 6
iβA
200

You can set the flash-sync speed for flash photography in the aperture-priority AE < Av > mode.

### AUTO : Auto

The flash sync speed is set automatically within a range of 1/200 sec. to 30 sec. to suit the scene's brightness. High-speed sync is also possible. (The shutter speed is set automatically within a range of 1/4000 to 30 sec.)

### 1/200 A : 1/200-1/60 sec. auto

Prevents a slow shutter speed from being set in low-light conditions. It is effective for preventing subject blur and camera shake. However, while the subject will be properly exposed with the flash, the background may come out dark.

### 1/200 : 1/200 sec. (fixed)

The flash sync speed is fixed at 1/200 sec. This more effectively prevents subject blur and camera shake than with [1/200-1/60sec. auto]. However, in low light, the subject's background will come out darker than with [1/200-1/60sec. auto].

If [1/200-1/60sec. auto] or [1/200 sec. (fixed)] is set, high-speed sync is not possible in the < Av > mode with the external Speedlite.

# **Displaying the Flash Function Setting Screen Directly**



When you use the built-in flash or an external, EX-series Speedlite compatible with the flash function settings, you can press the  $< \frac{1}{2} >$  button to directly display the [Built-in flash settings] or [External flash func. setting] screen without first displaying the menu screen.

### With built-in flash



#### With external Speedlite



### Press the <4> button twice.

- Press the button to raise the built-in flash.
- Press the button again to display the [Built-in flash settings] screen.
- If [Flash firing] is set to [Disable], the [2: Flash control] screen will appear (p.189).

### Press the <4> button.

With the external Speedlite turned on, press the <4> button to display the [External flash func. setting] screen.



When you press the < >> button to display the flash function setting screen, you cannot set [Flash firing], [E-TTL II meter.], [Flash sync. speed in Av mode], or [External flash C.Fn setting]. Set these functions with [ 12: Flash control] instead.

# [Built-in flash settings] and [External flash func. setting]

You can set the functions in the table below. The functions displayed under [External flash func. setting] vary depending on the Speedlite model.

Flash control		
Flash firing	Enable	
E-TTL II meter.	Evaluati	ve
Flash sync. speed	in Av mode	AUTO
Built-in flash setti	ngs	
External flash fun	c. setting	
External flash C.Fr	n setting	
Clear settings	1	MENU 5

Select [Built-in flash settings] or [External flash func. setting]. The flash function setting screen will be displayed. With [Built-in flash settings], only the highlighted functions can be selected and set

lash mode	E-TTL II
hutter sync.	1st curtain
exp. comp.	210112



Flash zoom (Flash coverage) Flash exposure bracketing Flash exposure compensation Shutter synchronization

[Built-in flash settings]

Main Functions for [Built-in flash settings] and [External flash func. settings]

Function	[Built-in flash settings]	[External flash func.	Page
rancaon	Normal Firing	setting]	Tuge
Flash mode		0	193
Shutter synchronization	0	0	193
Flash exposure bracketing*		0	
Flash exposure compensation	0	0	184
Flash ratio control		0	
Master flash firing		0	
Flash zoom*		0	

For [Flash exposure bracketing] and [Flash zoom], refer to the instruction manual of a Speedlite compatible with the functions.

### Flash mode

When using an external Speedlite, you can select the flash mode to suit your desired photographic effects.

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Flash mode	ç.		
Flash mode E-T	TL II flash m	etering	)

- **[E-TTL II]** is the standard mode of EX-series Speedlites for automatic flash photography.
- [Manual flash] is the mode for advanced users who want to set the [Flash output] (1/1 to 1/128) themselves.
- Regarding other flash modes, refer to the instruction manual of a Speedlite compatible with the respective flash mode.

#### Shutter synchronization

Normally, set this to [**First-curtain synchronization**] so that the flash fires immediately after the exposure starts.

If [Second-curtain synchronization] is set, the flash will be fired right before the shutter closes. When this is combined with a slow shutter speed, you can create a trail of light such as from car headlights at night with a more natural feel. When second-curtain synchronization is set together with [E-TTL II], the flash will be fired twice in a row: once when you press the shutter button completely and once right before the end of the exposure. Also, if the shutter speed is 1/30 sec. or faster, first-curtain synchronization will be applied automatically.

If an external Speedlite is attached, you can also select [High-speed synchronization] ( $\xi_{H}$ ). For details, refer to the Speedlite's instruction manual.

#### Flash exposure compensation

See "Flash Exposure Compensation" on page 184.

### **Setting the External Speedlite Custom Functions**

The Custom Functions displayed under [External flash C.Fn setting] vary depending on the Speedlite model.



### Display the Custom Function.

- With the camera ready to shoot with an external Speedlite, select [External flash C.Fn setting], then press < SET >.
- Set the Custom Function.
  - Press the <◄> <►> keys to select the function number, then set the function. The procedure is the same as setting the camera's Custom Functions (p.364).
- With an EX-series Speedlite, if the [Flash metering mode] Custom Function is set to [TTL flash metering] (autoflash), the Speedlite will always fire at full output.

# **Clear All Settings to Default**



## Select [Clear settings].

Under the [12: Flash control] tab, select [Clear settings], then press <SET>.

## Select the settings to be cleared.

- Select [Clear built-in flash set.], [Clear external flash set.], or [Clear ext. flash C.Fn set.], then press <SET>.
- When you select [**OK**], the respective flash settings will be cleared.
- The Speedlite's Personal Function (P.Fn) cannot be set or canceled on the camera's [Flash control] screen. Set it directly on the Speedlite.

# Shooting with the LCD Monitor (Live View Shooting)

You can shoot while viewing the image on the camera's LCD monitor. This is called "Live View shooting".

 If you handhold the camera and shoot while viewing the LCD monitor, camera shake may cause blurred images. Using a tripod is recommended in such cases.

# Remote Live View Shooting

With EOS Utility (EOS software, p.444) installed on your computer, you can connect the camera to the computer and shoot remotely while viewing the computer screen. For details, refer to the EOS Utility Instruction Manual.

# Shooting with the LCD Monitor





- Press the < 1 > button.
- The Live View image will appear on the LCD monitor. In the < > mode, the scene icon for the scene detected by the camera is displayed on the upper left of the screen (p.201).
- The Live View image will be displayed in the brightness level closely matching that of the actual image to be captured.

## Focus on the subject.

- When you press the shutter button halfway, the camera will focus with the current AF method (p.214).
- You can also tap on the screen to select the face or subject (p.224).

# Take the picture.

- Press the shutter button completely.
- The picture is taken and the captured image is displayed on the LCD monitor.
- When the playback display ends, the camera will return to Live View shooting automatically.
- Press the < >> button to exit the Live View shooting.
- The image's field of view is approx. 100% (with image-recording quality set to JPEG **4**L and aspect ratio set to 3:2).
  - In Creative Zone modes, you can check the depth of field by pressing the depth-of-field preview button.
  - You can also use a Wireless Remote Control BR-E1 (sold separately) or Remote Switch RS-60E3 (sold separately) for Live View shooting (p.382, 385).





### **MENU Enabling Live View Shooting**



Set [ 4: Live View shoot.] (the [ 1] tab in Basic Zone modes) to [Enable].

### Number of Possible Shots with Live View Shooting

(Approx. number of shots)

Temperature	Room Temperature (23°C / 73°F)	Low Temperatures (0°C / 32°F)
No Flash	290	260
50% Flash Use	260	240

The figures above are based on a fully-charged Battery Pack LP-E17 and CIPA (Camera & Imaging Products Association) testing standards.

 With a fully-charged Battery Pack LP-E17, continuous Live View shooting is possible for approx. 2 hr. 15 min. at room temperature (23°C / 73°F).

### **Continuous Shooting Display**

During Live View shooting, if you perform <⊒ > Continuous shooting with One-Shot AF, keep holding down the shutter button completely to display (play back) the captured images continuously. When the continuous shooting ends (shutter button is returned to halfway position), the Live View image will be displayed.



Depending on the shooting conditions such as when shooting with flash or shooting long exposures, the captured images may not be displayed (played back) continuously.

- In the <SCN: 四> mode, Live View shooting is not possible.
  - In the <SCN: W > mode, the angle of view changes slightly in Live View shooting because distortion correction is applied.
  - In the <**SCN**: M ☆ > and <۞: Such Such Such > modes, the image area will be smaller.
  - For flash photography, the continuous shooting speed will become slower.
  - Do not point the camera toward an intense light source, such as the sun or an intense artificial light source. Doing so may damage the image sensor or the camera's internal components.
  - General Live View Shooting Cautions are on pages 230-231.
  - When flash is used, there will be two shutter sounds, but only one shot will be taken. Also, the time it takes to take the picture after you press the shutter button completely will be longer than with viewfinder shooting.
    - If the camera is not operated for a prolonged period, the power will turn off automatically after the time set in [**Y**2: Auto power off] (p.288). If [**Y2: Auto power off**] is set to [Disable], Live View shooting will end automatically after 30 min. (Camera power remains on.)
    - With the HDMI cable, you can display the Live View image on a TV set (p.333). Note that no sound will be output. If the picture does not appear on the TV screen, check if the [**Ý**3: Video system] is correctly set to [For NTSC] or [For PAL] (depending on the video system of your TV set).

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### Information Display

 Each time you press the <INFO> button, the information display will change.



\* The number will be displayed when the maximum burst decreases to nine or lower.

-

- You can display the histogram by pressing the <INFO > button. However, the histogram is not displayed while pressing the shutter button completely.
  - When < INSUE > is displayed in white, it indicates that the Live View image is displayed at the brightness level closely matching that of the actual image to be captured.
  - If < Instant a blinking, it indicates that the Live View image is displayed at a brightness that differs from the actual shooting result because of low-or bright-light conditions. However, the actual image recorded will reflect the exposure setting. Note that the noise may be more noticeable than the actual image recorded.</p>
  - Exposure simulation is not performed in <SCN: № № > modes, when Multi Shot Noise Reduction is set, when flash is used, or when bulb exposure is used. The <∞∞∞ > icon and histogram will be displayed in gray. The image is displayed on the LCD monitor with standard brightness. Also, the histogram may not be properly displayed in low- or bright-light conditions.
  - The < Immuno icon will also be displayed in gray in the < ②:</li>
     Nor Sing Sing Sing > modes. The histogram will not be displayed.

Do not hold the camera in the same position for long periods of time. Even if the camera does not feel too hot, prolonged contact with the same body part may cause skin redness or blistering due to low-temperature contact burns. Using a tripod is recommended when using the camera in very hot places or for people with circulation problems or poor skin sensation.

### Scene Icons

In the  $\langle [\Delta]^+ \rangle$  shooting mode, the camera detects the scene type and sets everything automatically to suit the scene. The detected scene type is indicated on the upper left of the screen.

	Subject	Portr	ait <sup>*1</sup>	Non-Portrait			Background
Ba	ckground		Movement	Nature and Outdoor Scene	Movement	Close <sup>*2</sup>	Color
В	right			t I		<b>?</b> }	Gray
	Backlit			INT.		15 19	Glay
	lue Sky cluded		<b>I</b> !			<b>?</b> }	Light blue
	Backlit			The second		<b>K</b>	Light blue
Sı	unset	***	3	×		*3	Orange
S	potlight	Â				¢\$	
Dark				<b>▲</b> †		<b>*</b>	Dark blue
	With Tripod	*4*5	*3	<b>→</b> *4*5	*:	3	

- \*1: Displayed only when the AF method is set to [U+Tracking]. If another AF method is set, the "Non-portrait" icon will be displayed even if a person is detected.
- \*2: Displayed when the attached lens has distance information. With an extension tube or close-up lens, the icon displayed may not match the actual scene.
- \*3: The icon of the scene selected from the detectable scenes will be displayed.



\*4: Displayed when all the following conditions apply:

The shooting scene is dark, it is a night scene, and the camera is mounted on a tripod.

- \*5: Displayed with any of the lenses below:
  - EF-S18-55mm f/3.5-5.6 IS II EF-S55-250mm f/4-5.6 IS II
  - EF300mm f/2.8L IS II USM
     EF
- EF400mm f/2.8L IS II USM
  - EF500mm f/4L IS II USM
    - EF600mm f/4L IS II USM
  - Image Stabilizer lenses released in and after 2012.

\*4+\*5: If the conditions in both \*4 and \*5 are met, the shutter speed will slow down.

# **Final Image Simulation**

Final image simulation is a function that shows the Live View image with the effects of the current settings for Picture Style, white balance, and other shooting functions applied.

The Live View image will automatically reflect the function settings listed below. However, it may be slightly different from the resulting image.

### **Final Image Simulation During Live View Shooting**

- Picture Style
  - \* Sharpness (Strength), contrast, color saturation, and color tone will be reflected.
- White balance
- White balance correction
- Ambience-based shots (in < A > mode)
- Background blur (in < A > mode)
  - \* You can check the effect only during the setting procedure (when [Simulating blur] is displayed).
- Color tone (in < " > mode)
- Brightness
- Metering mode
- Exposure
- Depth of field (with depth-of-field preview button ON)
- Auto Lighting Optimizer
- Peripheral illumination correction
- Chromatic aberration correction
- Distortion correction
- Highlight tone priority
- Aspect ratio (Image area confirmation)

# **Shooting Function Settings**

Function settings particular to Live View shooting are described here.

# Quick Control

In Creative Zone modes, if you press the < > button with the image displayed on the LCD monitor, you can set **AF method**, AF operation, **Drive mode**, Metering mode, **Image quality**, White balance, Picture Style, Auto Lighting Optimizer, and Creative filters.

In Basic Zone modes, you can set the functions shown in the table on pages 107-108 (except background blur) as well as the functions in bold above.



# Press the < (2> button (210).

 The settable functions will be displayed.

# Select a function and set it.

- Press the <▲> <▼> keys to select a function.
- The settings of the selected function and Feature guide (p.56) will appear on the screen.
- Press the <◀> <►> keys to set the function.
- In the <SCN> and <Q> modes, select the shooting mode box on the upper left of the screen, then press <SET> to select the shooting mode.
- To set Auto white balance, select [IMB], then press <SET >.
- To set the drive mode's < S<sub>C</sub> > setting, WB correction/WB bracketing, Picture Style parameters, or Creative filter effects, press the <INFO > button.

# Exit the setting.

- Press < SET > to finalize the setting and return to Live View shooting.
- You can also select [<sup>1</sup>] to return to Live View shooting.

- In Creative Zone modes, you can set the ISO speed by pressing the <ISO> button.

  - With Live View shooting, you cannot set <□S> and <□S> in drive mode or self-timer.

# Shooting with Creative Filter Effects \*

While viewing the Live View image, you can apply one of seven filter effects (Grainy B/W, Soft focus, Fish-eye effect, Art bold effect, Water painting effect, Toy camera effect, and Miniature effect) for shooting. The camera saves only the image with the Creative filter applied. You can also take a picture without a Creative filter, then apply an effect afterward and save it as a new image (p.356).



# Turn the Mode Dial to a Creative Zone mode.

# Press the <Q> button (⊘10).

The Quick Control screen will appear.

# Select [ @ FF].

Press the <▲> <▼> keys to select [@m] (Creative filter) on the right side of the screen.



## Select a filter effect.

- Press the < ◀> < ►> keys to select a filter effect (p.207).
- The image will be displayed with the effects of the filter applied.



### Adjust the filter effect.

- Press the <INFO> button (except for <u>
  </u>).
- Press the < ◀> < ►> keys to adjust the effect, then press < SET>.

# Take the picture.

The image is shot with the filter effect applied.

- When you set a Creative filter, single shooting will take effect even if the drive mode is set to < >.
  - You cannot shoot with Creative filters if the recording quality is KMM or KMM + 4 L, or if AEB, white balance bracketing, or Multi Shot Noise Reduction is set.

The histogram is not displayed when you shoot with Creative filters.

### **Creative Filter Characteristics**

#### Grainy B/W

Creates a grainy black-and-white photo. You can change the blackand-white effect by adjusting the contrast.

#### Soft focus

Gives the image a soft look. You can change the degree of softness by adjusting the blur.

#### Fish-eye effect

Gives the effect of a fish-eye lens. The image will have a barrel-type distortion.

Depending on the level of this filter effect, the area trimmed along the periphery of the image changes. Also, since this filter expands the center part of the image, the resolution at the center may decrease depending on the number of recorded pixels. Check the image on the screen when setting this filter. Note that the AF method will be Live 1-point AF (fixed at center).

#### Art bold effect

Makes the photo look like an oil painting and the subject look more three-dimensional. You can adjust the contrast and saturation. Note that subjects such as the sky or white walls may not be rendered with a smooth gradation and may look irregular or have significant noise.

#### Water painting effect

Makes the photo look like a watercolor painting with soft colors. You can control the color density by adjusting the filter effect. Note that night scenes or dark scenes may not be rendered with a smooth gradation and may look irregular or have significant noise.

### Toy camera effect

Darkens the photo's corners and applies a unique color tone that makes it look as if it was shot by a toy camera. You can change the color cast by adjusting the color tone.

### Miniature effect

Creates a diorama effect.

If you want the image center to look sharp, take the picture without changing any setting.

To move the area that looks sharp (miniature effect frame), see "Adjusting Miniature Effect" (p.105). The AF method will be Live 1-point AF. Positioning the miniature effect frame over the AF point before shooting is recommended.

With Grainy B/W, the grainy effect displayed on the LCD monitor will look different from the grainy effect recorded in the picture.

 With the Soft focus and Miniature effect, the blurred effect displayed on the LCD monitor may look different from the blurred effect recorded in the picture. You can check the picture's blurred effect by pressing the depth-of-field preview button.

# MENU Menu Function Settings

2. 1. 4 5	\$40075
AF method	2+Tracking
Touch Shutter	Disable
Metering timer	8 sec.
Grid display	Off
Aspect ratio	3:2

When the camera is set for Live View shooting, menu options exclusive to Live View shooting will appear under the [15] tab (the [12] tab in Basic Zone modes).

### AF method

You can select [ +Tracking], [Smooth zone], or [Live 1-point AF]. See pages 214-223 for the AF method.

### Touch Shutter

Just by tapping on the LCD monitor screen, you can focus and take the picture automatically. For details, see page 224.

### Meterina timer \*

You can change how long the exposure setting is displayed (AE lock time). In Basic Zone modes, metering timer is fixed at 8 sec.

### Grid display

With  $[3x3 \pm 1]$  or  $[6x4 \pm 1]$ , you can display grid lines to help you level the camera vertically or horizontally. Also, with  $[3x3+diag ] \neq 1$ , the grid is displayed together with diagonal lines to help you compose with better balance by aligning the intersections over the subject.



Selecting [ 14: Dust Delete Data] or either [Clean manually] or [Clean **now** to 1 under [**43: Sensor cleaning**] will stop the Live View shooting. To start Live View shooting again, press the < 1 > button.

### Aspect ratio \*

You can change the image's aspect ratio. [3:2] is set by default. The area surrounding the Live View image is masked in black when the following aspect ratios are set: [4:3] [16:9] [1:1].

JPEG images will be saved with the set aspect ratio. RAW images will always be saved with the [3:2] aspect ratio. The selected aspect ratio information is added to the RAW image file. When you process the RAW image with Digital Photo Professional (EOS software), this allows you to generate an image with the same aspect ratio that was set for shooting. In the case of the [4:3], [16:9], and [1:1] aspect ratios, the lines to indicate the aspect ratio will appear during image playback, but they are not actually drawn on the image.

Image	Aspect Ratio and Pixel Count (Approx.)					
Quality	3:2	4:3	16:9	1:1		
L/RAW	6000x4000	5328x4000*	6000x3368*	4000x4000		
	(24 megapixels)	(21.3 megapixels)	(20.2 megapixels)	(16 megapixels)		
м	3984x2656	3552x2664	3984x2240*	2656x2656		
	(10.6 megapixels)	(9.5 megapixels)	(8.9 megapixels)	(7.1 megapixels)		
S1	2976x1984	2656x1992	2976x1680*	1984x1984		
	(5.9 megapixels)	(5.3 megapixels)	(5 megapixels)	(3.9 megapixels)		
S2	2400x1600	2112x1600*	2400x1344*	1600x1600		
	(3.8 megapixels)	(3.4 megapixels)	(3.2 megapixels)	(2.6 megapixels)		

 The image-recording quality and aspect ratio with an asterisk do not exactly match the indicated ratio.

 The image area displayed for the asterisked aspect ratio may be slightly different from the actual image area. Check the captured images on the LCD monitor when shooting.

# Changing the Autofocus Operation $\star$

You can select the AF (autofocus) operation characteristics to suit the shooting conditions or subject. In Basic Zone modes, the optimum AF operation is set automatically for the respective shooting mode.



# Press the < > button.

▶ The Quick Control screen will appear.

# Select [ONE SHOT].

 Press the <▲ > <▼ > keys to select [ONE SHOT] (AF operation) on the left side of the screen.



# Select the AF operation.

Press the <◄> <►> keys to select the desired AF operation, then press <SET>.

ONE SHOT : One-Shot AF SERVO : Servo AF



# Focus on the subject.

Aim the AF point over the subject and press the shutter button halfway. The camera will then autofocus in the selected AF operation.

Settable only for Live View shooting (not settable for movie shooting).
 If focus cannot be achieved, the AF point will turn orange. If this occurs, the picture cannot be taken even if the shutter button is pressed completely. Recompose the shot and try to focus again. Or, see "Shooting Conditions that Make Focusing Difficult" (p.221).

# **One-Shot AF for Still Subjects**

# Suited for still subjects. When you press the shutter button halfway, the camera will focus only once.

- When focus is achieved, the AF point will turn green and the beeper will sound.
- The focus remains locked while you hold down the shutter button halfway, allowing you to recompose the image before taking the picture.
- When the drive mode is set to <□> for continuous shooting, the maximum continuous shooting speed is approx. 5.0 shots/sec.
- For flash photography, the continuous shooting speed will become slower (max. approx. 1.4 shots/sec.).

If [**43: Beep**] is set to [**Disable**], the beeper will not sound when focus is achieved.

## Servo AF for Moving Subjects

### This AF operation is suited for moving subjects. While you hold down the shutter button halfway, the camera will keep focusing on the subject continuously.

- When the drive mode is set to <⊒> for continuous shooting, the maximum continuous shooting speed is approx. 3.5 shots/sec. The pictures will be taken with priority given to subject tracking.
- For flash photography, the continuous shooting speed will become slower (max. approx. 1.4 shots/sec.).
- When focus is achieved, the AF point will turn blue.
- The exposure is set at the moment the picture is taken.
- When [AF method] is set to ['L'+Tracking], focusing will be continuous as long as the Area AF frame can track the subject.

- Depending on the lens used, the distance to the subject and the subject's speed, the camera may not be able to achieve correct focus.
  - Zooming during continuous shooting may throw off the focus. Zoom first, then recompose and shoot.

With Servo AF, the beeper will not sound even when focus is achieved.

# MENU Focusing with AF

### Selecting the AF Method

You can select an AF method to suit the shooting conditions and your subject. The following AF methods are provided: [: (face)+Tracking] (p.215), [Smooth zone] (p.217), and [Live 1-point AF] (p.219). If you want to achieve precise focus, set the lens's focus mode switch to <MF>, magnify the image, and focus manually (p.228).

2. 1. 4 5	5900
AF method	+Tracking
	Smooth zone
	Live 1-point AF

# Select the AF method.

- Under the [D 5] tab (the [D 2] tab in Basic Zone modes), select [AF method].
- Select the desired AF method, then press < SET >.
- While the Live View image is displayed, you can also press the
   > button to select the AF method on the Quick Control screen (p.203).

The descriptions on pages 215-219 assume that [AF operation] is set to [One Shot AF] (p.212). With [Servo AF] (p.213) set, the AF point will turn blue when focus is achieved.

- In the <SCN: % > modes, Servo AF is set automatically, and when focus is achieved, the AF point will turn blue and the beeper will sound.
- Regarding the Touch Shutter (AF and shutter release by touch operation), see page 224.

# ເface)+Tracking: ለFንር

The camera detects and focuses on human faces. If a face moves, the AF point <C> also moves to track the face.



Area AF frame



# Display the Live View image.

- Press the < 1 > button.
- The Live View image will appear on the LCD monitor.
- The Area AF frame will appear.

## Check the AF point.

- When a face is detected, <2> will appear over the face to be focused on.
- If multiple faces are detected, < ↔ will be displayed. Use < <> > to move < ↔ > over the face you want to focus on.

### Focus on the subject.

- Press the shutter button halfway to focus.
- If no faces can be detected or if you do not tap anything on the screen, focus will be achieved within the Area AF frame.
- When focus is achieved, the AF point will turn green and the beeper will sound.
- If focus is not achieved, the AF point will turn orange.



### Take the picture.

• Check the focus and exposure, then press the shutter button completely to take the picture (p.196).

#### Focusing on a subject other than a human face

If you press the  $\langle \widetilde{\mathbb{m}} \rangle$  button, the AF point  $\langle \widetilde{\mathbb{m}} \rangle$  will appear at the screen center, and you can use the  $\langle \diamondsuit \rangle$  cross keys to move the AF point. Once the AF point  $\langle \widetilde{\mathbb{m}} \rangle$  achieves focus, the AF point will also move to track the subject if you change the composition or if the subject moves.

- If the subject's face is significantly out of focus, face detection will not be possible. Adjust the focus manually (p.228) so that the face can be detected, then perform AF.
  - An object other than a human face may be detected as a face.
  - Face detection will not work if the face is very small or large in the picture, too bright or too dark, or partially hidden.
  - The < 2> may cover only a part of the face, not the whole face.

Use the Area AF frame as a guide to focus within the Area AF frame.
 The size of the AF point changes depending on the subject.
#### Smooth Zone: AF()

The selected Zone AF frame is used to focus. The AF area is larger than with [Live 1-point AF].



Zone AF frame





### Display the Live View image.

- Press the < 1 > button.
- The Live View image will appear on the LCD monitor.

#### Select the AF point.

- You can also touch the LCD monitor screen to move the Zone AF frame.

#### Focus on the subject.

- Aim the Zone AF frame over the subject and press the shutter button halfway.
- When focus is achieved, the AF point will turn green and the beeper will sound.
- If focus is not achieved, the Zone AF frame will turn orange.



#### Take the picture.

• Check the focus and exposure, then press the shutter button completely to take the picture (p.196).

#### Live 1-point AF: AF

The camera focuses with a single AF point. This is effective when you want to focus on a particular subject.



AF point







## Display the Live View image.

- Press the < 1 > button.
- The Live View image will appear on the LCD monitor.
- The AF point  $\langle \Box \rangle$  will appear.
- During movie shooting, if [Movie Servo AF] is set to [Enable], a larger AF point will be displayed.

### Move the AF point.

- Press the < > cross keys to move the AF point to where you want to focus. (It cannot go to the edge of the screen.)
- Pressing the < m > button will return the AF point to the screen center.
- You can also touch the LCD monitor screen to move the AF point.

### Focus on the subject.

- Aim the AF point over the subject and press the shutter button halfway.
- When focus is achieved, the AF point will turn green and the beeper will sound.
- If focus is not achieved, the AF point will turn orange.

#### Take the picture.

• Check the focus and exposure, then press the shutter button completely to take the picture (p.196).

#### Notes for AF

#### **AF Operation**

- Even when focus is achieved, pressing the shutter button halfway will focus again.
- The image brightness may change during and after the AF operation.
- Depending on the subject and shooting conditions, it may take longer to focus, or the continuous shooting speed may decrease.
- If the light source changes while the Live View image is displayed, the screen may flicker and focusing may be difficult. If this happens, exit Live View shooting and perform AF under the actual light source under which you are shooting.

- If you cannot achieve focus with AF, set the lens's focus mode switch to <MF> and focus manually (p.228).
  - If you shoot the subject at the periphery and it is slightly out of focus, recompose to move the subject (and AF point) toward the screen center, focus again, then take the picture.
  - The AF-assist beam will not be emitted. However, if an EX-series Speedlite (sold separately) equipped with an LED light is used, the LED light will turn on for AF-assist as necessary.
  - With certain lenses, it may take more time to achieve focus with autofocus, or accurate focusing may not be achieved.

#### **Shooting Conditions that Make Focusing Difficult**

- Subject with low-contrast such as the blue sky, solid-color flat surfaces or when highlight or shadow details are clipped.
- Subjects in low light.
- Stripes and other patterns where there is contrast only in the horizontal direction.
- Subjects with repetitive patterns (Example: Skyscraper windows, computer keyboards, etc.).
- Fine lines and subject outlines.
- Under a light source whose brightness, color, or pattern keeps changing.
- Night scenes or points of light.
- The image flickers under fluorescent or LED lighting.
- Extremely small subjects.
- Subjects at the edge of the screen.
- Strongly backlit or reflective subjects (Example: Car with a highly reflective body, etc.).
- Near and distant subjects covered by an AF point (Example: Animal in a cage, etc.).
- Subjects that keep moving within the AF point and will not stay still due to camera shake or subject blur.
- Performing AF when the subject is very far out of focus.
- Soft focus effect is applied with a soft focus lens.
- A special effect filter is used.
- Noise (dots of light, banding, etc.) appears on the screen during AF.

#### **Magnified View**



In the [Smooth zone] and [Live 1-point AF] modes, either press the  $< \odot$  > button or tap on [ ] displayed on the bottom right of the screen to magnify the image by approx. 5x or 10x and check the focus.

Magnified view is not possible with [:+Tracking].

- To move the AF point, press the < > cross keys or tap on the spot you want to magnify.
- Either press the <@> button or tap on [@] to magnify the area covered by the magnifying frame. Each time you press the <@> button or tap on [@], the magnification ratio changes.
- The magnifying frame will appear at the center of the Zone AF frame when [Smooth zone] is set, and it will appear around the position of the AF point when [Live 1-point AF] is set.
- At 100% (approx. 1x) magnification, press the < ↔ > cross keys or touch the screen to move the magnifying frame. Pressing the < m> button will return the magnifying frame to the screen center.
- When the image is magnified by approx. 5x or 10x, you can change the magnified area by pressing the < +> cross keys or tapping on the triangle on the screen top, bottom, left, or right.
- When you press the shutter button halfway, the normal view will return for [Smooth zone]. For [Live 1-point AF], AF will proceed with the magnified view.
- With Servo AF, if you press the shutter button halfway in the magnified view, the camera will return to the normal view for focusing.

- If focusing is difficult in the magnified view, return to the normal view and perform AF.
  - If you perform AF in the normal view and then use the magnified view, accurate focus may not be achieved.
  - AF speed differs between normal view and magnified view.
  - When in magnified view, Movie Servo AF (p.273) will not function.
  - With the magnified view, achieving focus becomes more difficult due to camera shake. Using a tripod is recommended.

# 📬 Shooting with the Touch Shutter

Just by tapping on the LCD monitor screen, you can focus and take the picture automatically.





## Display the Live View image.

- Press the < 💼 > button.
- The Live View image will appear on the LCD monitor.

## Enable the Touch Shutter.

- Tap [\$\$] on the screen's bottom left. Each time you tap on the icon, it will toggle between [\$] and [\$].
- [C3] (Touch Shutter: Enable) The camera will focus on the spot you tap on, then the picture will be taken.
- [#3] (Touch Shutter: Disable) You can tap on a spot to perform focusing on the spot (Touch AF). Press the shutter button completely to take the picture.

#### Tap on the screen to shoot.

- Tap on the face or subject on the screen.
- On the point you tap, the camera will focus with the AF method that was set (p.214-219). When [Smooth zone] is set, it will switch to [Live 1-point AF].
- When focus is achieved, the AF point turns green and the picture is taken automatically.
- If focus is not achieved, the AF point turns orange and the picture cannot be taken. Tap on the face or subject on the screen again.



- Even if you set the drive mode to < >, the camera will still shoot in the single shooting mode.
  - Even if [AF operation] is set to [Servo AF], tapping on the screen will focus on the image with [One-Shot AF].
  - Tapping on the screen in magnified view will not focus or take the picture.
  - If the Fish-eye effect Creative filter is set, the camera will focus using the AF point at the center of the screen regardless of the point you tap on.
  - If the Miniature effect Creative filter is set, the Touch Shutter does not work.
- You can also set the Touch Shutter with [15: Touch Shutter] (the [12] tab in Basic Zone modes).
  - To shoot with bulb exposure, tap on the screen twice. The first tap on the screen will start the bulb exposure. Tapping it again will stop the exposure. Be careful not to shake the camera when tapping on the screen.

# 🛵 Taking a Self Portrait (Selfie)

The Self Portrait mode processes the image to suit human subjects. In this mode, you can also adjust the background blur and brightness when shooting.



### Display the Live View image.

- Press the < 
  > button.
- The Live View image will appear on the LCD monitor.



# Face the LCD monitor toward the front of the camera.

 As shown in the illustration, flip out the LCD monitor and face it toward the front of the camera (p.41).

# Tap [ 🛵 ] on the screen.

Enable the self portrait.



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### Take the picture. When using the Touch Shutter:

- Set to [Ci] (Touch Shutter: Enable) (p.224).
- Tap on the spot where you want to focus, then take the picture.

#### When using the shutter button:

 Press the shutter button halfway to focus, then press it completely to take the picture.

- After the camera achieves focus, do not change the distance between you and the camera until the picture is taken.
  - Be careful not to drop the camera.
  - Flash photography is not possible. Try to prevent camera shake when shooting in low-light conditions.
- The Self Portrait mode will be canceled when you set the camera switch to <OFF> or do any of the following:
  - Tapping [in] on the screen.
  - Rotating the LCD monitor back to its original position.
  - Pressing the < > button.

# MF: Focusing Manually

You can magnify the image and focus precisely with MF (manual focus).







Magnifying frame



AE lock Magnified area position Magnification

# Set the lens's focus mode switch to <MF>.

• Turn the lens focusing ring to focus roughly.

# Display the magnifying frame.

- Press the <⊕ > button.
- The magnifying frame will appear.
- You can also tap [Q] on the screen to magnify the image.

# Move the magnifying frame.

- Press the < > cross keys to move the magnifying frame to where you want to focus.
- Pressing the < m > button will return the magnifying frame to the screen center.

# Magnify the image.

 Each time you press the <Q > button, the magnification of the image will change in the following sequence:

 $\rightarrow$ 1x  $\rightarrow$  5x  $\rightarrow$  10x  $\rightarrow$  Normal view –

## Focus manually.

- While looking at the magnified image, turn the lens focusing ring to focus.
- After achieving focus, press the < < < > button to return to the normal view.

## A Take the picture.

 Check the focus and exposure, then press the shutter button to take the picture (p.196).

 In magnified view, the exposure is locked. (Shutter speed and aperture will be displayed in red.)

Even with manual focusing, you can use the Touch Shutter to take a picture.

# General Live View Shooting Cautions

#### Image Quality

- When you shoot at high ISO speeds, noise (such as dots of light and banding) may become noticeable.
- Shooting in high temperatures may cause noise and irregular colors in the image.
- If Live View shooting is used continuously for a prolonged period, the camera's internal temperature may rise, and image quality may deteriorate. Always exit Live View shooting when you are not shooting.
- If you shoot a long exposure while the camera's internal temperature is high, image quality may deteriorate. Exit Live View shooting and wait a few minutes before shooting again.

#### White < 10 > and Red < 10 > Internal Temperature Warning Icons

- If the camera's internal temperature increases due to prolonged Live View shooting or under a high ambient temperature, a white <
  B > or red <
  B > icon will appear.
- The white < ID > icon indicates that the image quality of still photos will deteriorate. It is recommended that you temporarily exit Live View shooting and allow the camera to cool down before shooting again.
- The red < Isis > icon indicates that the Live View shooting will soon stop automatically. If this happens, you will not be able to shoot again until the camera's internal temperature decreases. Temporarily exit the Live View shooting or turn off the power and let the camera rest for a while.
- Using Live View shooting at a high temperature for a prolonged period will cause the < ID > or < ID > icon to appear earlier. When you are not shooting, always turn off the camera.
- If the camera's internal temperature is high, the quality of images shot with a high ISO speed or long exposure may deteriorate even before the white < III > icon is displayed.

#### Shooting Results

- If you take the picture in magnified view, the exposure may not come out as desired. Return to the normal view before taking the picture. In magnified view, the shutter speed and aperture will be displayed in orange. Even if you take the picture in magnified view, the image will be captured with the image area of the normal view.
- If you use a TS-E lens (except the TS-E17mm f/4L or TS-E24mm f/3.5L II) for shifting or tilting the lens or if you use an extension tube, the standard exposure may not be obtained, or an irregular exposure may result.

# General Live View Shooting Cautions

#### Live View Image

- Under low- or bright-light conditions, the Live View image may not reflect the brightness of the captured image.
- Even if a low ISO speed is set, noise may be noticeable in the displayed Live View image under low light. However, when you shoot, the image recorded will have less noise. (The image quality of the Live View image is different from that of the recorded image.)
- If the light source (illumination) within the image changes, the screen may flicker. If this happens, exit Live View shooting and resume Live View shooting under the actual light source.
- If you point the camera in a different direction, it may throw off the Live View image's correct brightness momentarily. Wait until the brightness level stabilizes before shooting.
- If there is a very bright light source in the image, the bright area may appear black on the LCD monitor. However, the actual captured image will correctly show the bright area.
- In low light, if you set the [ 12: LCD brightness] to a bright setting, noise or irregular colors may appear in the Live View image. However, the noise or irregular colors will not be recorded in the captured image.
- When you magnify the image, the image sharpness may look more pronounced than in the actual image.
- If the shutter speed is 1 sec. or slower, "BUSY" is displayed on the LCD monitor, and the Live View display will not appear until the exposure is complete.

#### Custom Functions

 During Live View shooting, certain Custom Function settings will not take effect (p.365).

#### Lens and Flash

- If the attached lens has an Image Stabilizer and you set the Image Stabilizer (IS) switch to <ON>, the Image Stabilizer will operate at all times even if you do not press the shutter button halfway. The Image Stabilizer consumes battery power and may decrease the number of possible shots depending on the shooting conditions. When the Image Stabilizer is not necessary, such as when using a tripod, it is recommended that you set the IS switch to <OFF>.
- The focus preset function is possible for Live View shooting only when using a (super) telephoto lens equipped with the focus preset mode released in and after the second half of 2011.
- FE lock will not work if the built-in flash is used. FE lock and modeling flash will not work if an external Speedlite is used.




# **Shooting Movies**



Movie shooting is enabled by setting the power switch to <',>.

- For cards that can record movies, see page 8.
- If you handhold the camera and shoot movies, camera shake can cause blurred movies. In such a case, using a tripod is recommended.
- To shoot while handholding the camera, see page 76.



# Full HD 1080

Full HD 1080 indicates compatibility with High-Definition featuring 1080 vertical pixels (scanning lines).



# 🖳 Shooting Movies

Connecting the camera to a TV set is recommended to play back the shot movies (p.333-335).

## Autoexposure Shooting

When the shooting mode is set to any mode other than  $<\mathbf{M}>$ , autoexposure control will take effect to suit the scene's current brightness.







Recording movie



Built-in microphones

## Set the power switch to $< ^{\bullet} = >$ .

The reflex mirror will make a sound, then the image will appear on the LCD monitor.

# Set the Mode Dial to a mode other than $\langle SCN \rangle$ , $\langle Q \rangle$ , or $\langle M \rangle$ .

## Focus on the subject.

- Before shooting a movie, focus with AF or manual focus (p.214-223, 228).
- By default, [Movie Servo AF: Enable] is set so that the camera always keeps focusing. To stop Movie Servo AF, see page 273.

## Shoot the movie.

- Press the < >> button to start shooting a movie. To stop movie shooting, press the < >> button again.
- While the movie is being shot, the "

  "

  "
   mark will be displayed on the upper right of the screen.
- Sound will be recorded by the built-in microphones.

General Movie Shooting Cautions are on pages 278-279.
 If necessary, also read "General Live View Shooting Cautions" on pages 230-231.

0

- In Basic Zone modes (except the <SCN> and <Q> modes), the shooting result will be the same as with <(△<sup>+</sup>)>. Also, the scene icon for the scene detected by the camera is displayed on the upper left (p.237).
  - In the <Av > and <Tv > shooting modes, the settings will be the same as when shooting in the <P > mode.
  - Settable menu functions differ between Basic Zone modes and Creative Zone modes (p.410).
  - Shutter speed, aperture and ISO speed are set automatically.
  - In Creative Zone modes, you can press the <★> button (p.178) to lock the exposure (AE lock). The exposure setting will be displayed for the number of seconds set with [△4: Metering timer]. After applying AE lock during movie shooting, you can cancel it by pressing the < ⊡> button. (AE lock setting is retained until you press the < ⊡> button.)
  - In Creative Zone modes, you can turn the <im> > dial while holding down the <Av⊠> button to set the exposure compensation.
  - If you shoot a movie with autoexposure, the shutter speed, aperture and ISO speed will not be recorded in the movie's Exif information.
  - With autoexposure movie shooting (except in time-lapse movie shooting), the camera will automatically turn on the Speedlite's LED light under low-light conditions. For details, refer to the Instruction Manual of the EX-series Speedlite equipped with an LED light.

#### **ISO Speed in Basic Zone Modes**

• The ISO speed will be set automatically within ISO 100 - ISO 12800.

#### ISO Speed in the <P>, <Tv>, and <Av> Modes

- The ISO speed will be set automatically within ISO 100 ISO 12800. The maximum limit varies depending on the ['\, ISO Auto] setting (p.277).
- Under [¥4: Custom Functions(C.Fn)], if [2: ISO expansion] is set to [1:On], [Max.:H(25600)] can also be selected for ['〒ISO Auto].
- Under [¥4: Custom Functions(C.Fn)], if [4: Highlight tone priority] is set to [1:Enable], the ISO speed will be ISO 200 - ISO 12800.

When switching from still photo shooting to movie shooting, check the ISO speed settings again before shooting movies.

#### Scene Icons

During movie shooting in Basic Zone modes (except the **<SCN** > and **<** $\bigcirc$  > modes), an icon representing the scene detected by the camera will be displayed, and the shooting will be performed to suit the scene. For certain scenes or shooting conditions, the icon displayed may not match the actual scene.

	Subject		Non-Port	Background	
Bacl	Background Portrait <sup>*1</sup>		Nature and Outdoor Scene	Close*2	Color
Brig	ht			*	Gray
	Backlit		TIT.		Olay
Blue	Sky Included			Y	Light blue
	Backlit		The		Light blue
Sun	set	*3	**	*3	Orange
Spot	tlight	4		\$	Dark blue
Dark	1		<b>I</b>	*	Dark blue

- \*1:• Displayed only when the AF method is set to [::+Tracking]. If another AF method is set, the "Non-portrait" icon will be displayed even if a person is detected.
  - During time-lapse movie shooting, the "Non-portrait" icon will be displayed even if a person is detected.
- \*2: Displayed when the attached lens has distance information. With an extension tube or close-up lens, the icon displayed may not match the actual scene.
- \*3: The icon of the scene selected from the detectable scenes will be displayed.

#### Manual Exposure Shooting

In the  $<\mathbf{M}>$  mode, you can manually set the shutter speed, aperture, and ISO speed for movie shooting. Using manual exposure to shoot movies is for advanced users.





The reflex mirror will make a sound, then the image will appear on the LCD monitor.







# Set the ISO speed.

Set the Mode Dial to <M>.

- Press the <ISO> button and press the <◀> <►> keys or turn the <ご>> dial to select the ISO speed.
- For details on the ISO speed, see the next page.

# Set the shutter speed and aperture.

- To set the shutter speed, turn the
   > dial. The settable shutter
   speeds vary depending on the frame rate.
  - 25.00P 23.98P : 1/4000 sec. 1/25 sec.
  - 29.97P : 1/4000 sec. 1/30 sec.
  - 50.00P : 1/4000 sec. 1/50 sec.
  - <u>59.94P</u> : 1/4000 sec. 1/60 sec.
- To set the aperture, turn the < <sup>™</sup>→ dial while holding down the < Av ≥ button.</li>

### Focus and shoot the movie.

The procedure is the same as steps 3 and 4 for "Autoexposure Shooting" (p.234).

#### ISO Speed During Manual Exposure Shooting

- With [AUTO], the ISO speed will be set automatically within ISO 100 - ISO 12800. The maximum limit varies depending on the ['\Files ISO Auto] setting (p.277).
- You can set the ISO speed manually within ISO 100 ISO 12800 in whole-stop increments. Under [¥4: Custom Functions(C.Fn)], if you set [2: ISO expansion] to [1:On], the maximum limit of the manual ISO speed setting range will be expanded so you can also select H (equivalent to ISO 25600).
- Under [¥4: Custom Functions(C.Fn)], if [4: Highlight tone priority] is set to [1:Enable], the ISO speed will be ISO 200 -ISO 12800.
- Since shooting a movie at ISO 25600 equivalent may result in much noise, it is designated as an expanded ISO speed (displayed as "H").
  - When switching from still photo shooting to movie shooting, check the camera settings again before shooting movies.
  - Changing the shutter speed or aperture during movie shooting is not recommended since the changes in the exposure will be recorded.
  - When shooting a movie of a moving subject, a shutter speed of approx. 1/30 sec. to 1/125 sec. is recommended. The faster the shutter speed, the less smooth the subject's movement will look.
  - If you change the shutter speed while shooting under fluorescent or LED lighting, image flicker may be recorded.
- If you set [5:Expo comp (hold btn, turn \*)] with [9: Assign SET button] under [\*4: Custom Functions(C.Fn)] (p.371), you can use exposure compensation with ISO Auto set.
  - When ISO Auto is set, you can press the <★ > button to lock the ISO speed.
  - If you press the <★> button and recompose the shot, you can see the exposure level difference on the exposure level indicator (p.240) compared to when the <★> button is pressed.
  - By pressing the <INFO > button, you can display the histogram.

### **Information Display**

 Each time you press the <INFO> button, the information display will change.



\* Applies to a single movie clip.

- The grid lines, or histogram cannot be displayed during movie shooting. (The display will disappear when you start shooting a movie.)
  - When movie shooting starts, the movie shooting remaining time will change to the elapsed time.

#### **Final Image Simulation**

Final image simulation is a function that shows the movie as it will look with the current settings for the Picture Style, white balance and other shooting functions applied.

During movie shooting, the image displayed will automatically show the effects of the settings listed below.

#### **Final Image Simulation for Movie Shooting**

- Picture Style
  - \* Sharpness (Strength), contrast, color saturation, and color tone will be reflected.
- White balance
- White balance correction
- Exposure
- Depth of field
- Auto Lighting Optimizer
- Peripheral illumination correction
- Chromatic aberration correction
- Highlight tone priority
- HDR movie
- Creative filters

#### **Still Photo Shooting**

Still photos cannot be taken during movie shooting. To take still photos, stop the movie shooting and take still photos using viewfinder shooting or Live View shooting.

# Cautions for Movie Shooting

- Do not point the camera toward an intense light source, such as the sun or an intense artificial light source. Doing so may damage the image sensor or the camera's internal components.
- When you press the shutter button halfway to autofocus during movie shooting, the following phenomena may occur.
  - · Focus may become far off momentarily.
  - The brightness of the recorded movie may change.
  - · The recorded movie may be momentarily still.
  - · The movie may record the lens mechanical sound.
- If < Imp > or < Imp w > is set and the ISO speed or aperture changes during movie shooting, the white balance may also change.
- If you shoot a movie under fluorescent or LED lighting, the movie image may flicker.
- Shooting a few test movies is recommended if you intend to perform zooming during movie shooting. Zooming during movie shooting may result in recording of changes in exposure or mechanical sound of the lens, or images may be out of focus.
- During movie shooting, you cannot magnify the image even if you press the <Q > button.
- Be careful not to cover the built-in microphones (p.234) with your fingers, etc.
- If you connect or disconnect the HDMI cable during movie shooting, the movie shooting will end.
- General Movie Shooting Cautions are on pages 278-279.
- If necessary, also read "General Live View Shooting Cautions" on pages 230-231.

#### Do not hold the camera in the same position for long periods of time. Even if the camera does not feel too hot, prolonged contact with the same body part may cause skin redness or blistering due to low-temperature contact burns. Using a tripod is recommended when using the camera in very hot places or for people with circulation problems or very sensitive skin.

# Notes for Movie Shooting

- Each time you shoot a movie, a new movie file is created on the card.
- The movie image's field of view is approx. 100% (with movie recording size set to [1920x1080]).
- Stereo sound is recorded by the camera's built-in microphones.
- If you connect the Directional Stereo Microphone DM-E1 (sold separately) to the camera's external microphone IN terminal (p.28), the external microphone is given the priority.
- Most external microphones equipped with a 3.5 mm diameter mini plug can be used.
- With a fully-charged Battery Pack LP-E17, the possible movie shooting time will be as follows: approx. 2 hr. at room temperature (23°C / 73°F) and approx. 1 hr. 45 min. at low temperatures (0°C / 32°F) (with movie recording size set to FHD 10077 / 15007 [IPB] and [C14: Movie Servo AF: Disable] set).
- The focus preset function is possible for movie shooting when using a (super) telephoto lens equipped with the focus preset mode, released in and after the second half of 2011.

# **Shooting Function Settings**

Function settings particular to movie shooting are described here.

# Quick Control

If you press the < > button when the image is displayed on the LCD monitor, you can set **AF method**, **Movie rec. size**, **Digital zoom**, **Video snapshot**, White balance, Picture Style, Auto Lighting Optimizer, and Creative filters.

In Basic Zone modes, only the functions in bold above can be set.



Press the < ()> button ()).

 The settable functions will be displayed.

## Select a function and set it.

- Press the <▲> <▼> keys to select a function.
- The settings of the selected function and Feature guide (p.56) will appear on the screen.
- Press the <◄> <►> keys to set the function.
- To set Auto white balance, select [IMB], then press < SET >.
- To set the WB correction, Picture Style parameters, or Creative filters, press the <INFO> button.
- Pressing < SET > will return the camera to movie shooting.
- You can also select [<sup>1</sup>] to return to movie shooting.

# **MENU** Setting the Movie Recording Size

1920	x1080 29.97fg	os 1	00:00
Stan	dard (IPB)		NE
	THOMAS	THD THE	
	FHDEME	HD SEE	
	THOMAS	INGA SERIE	
	FHD	INGA STERE	

With [**D**1: Movie rec. size], you can set the movie recording size (image size, frame rate, and compression method) and other functions.

Movies will be recorded in the MP4 format.

#### Image size

#### FHD 1920x1080

Full High-Definition (Full HD) recording quality. The aspect ratio is 16:9.

#### ₩D 1280x720

High-Definition (HD) recording quality. The aspect ratio is 16:9.

Standard-definition recording quality. The aspect ratio is 4:3.

#### • Frame rate (fps: frame per second)

#### 29.97 fps/ 59.94 fps

For areas where the TV system is NTSC (North America, Japan, South Korea, Mexico, etc.).

#### 2500P 25.00 fps/5000P 50.00 fps

For areas where the TV system is PAL (Europe, Russia, China, Australia, etc.).

#### 23.98P 23.98 fps

Mainly for motion pictures.

 The frame rate displayed on the movie recording size screen switches depending on whether [**43**: Video system] is set to [For NTSC] or [For PAL]. Image (23.98 fps) can be selected only when [For NTSC] is set.

• If you change the [**Y**3: Video system] setting, set the movie recording size again.

#### Compression method

**IPB** IPB (Standard)

Compresses multiple frames at a time efficiently for recording.

IPB 🔛 IPB (Light)

Since the movie is recorded at a low bit rate for playback on various devices, the file size will be smaller than with IPB (Standard). Therefore, you can shoot longer than with IPB (Standard).

#### Total Movie Recording Time and File Size Per Minute

(Approx.)

Movie Recording Size		Total Recording Time on Card			File Size	
		4 GB	16 GB	64 GB	File Size	
#FHD	59.94P 50.00P	Standard	8 min.	35 min.	2 hr. 21 min.	431 MB/min.
[1920x	29.97P 25.00P 23.98P	Standard	17 min.	1 hr. 10 min.	4 hr. 41 min.	216 MB/min.
1080]	29.97P 25.00P	Light	43 min.	2 hr. 53 min.	11 hr. 35 min.	87 MB/min.
印 [1280x	59.94P 50.00P	Standard	20 min.	1 hr. 21 min.	5 hr. 24 min.	184 MB/min.
720]	29.97P 25.00P	Light	2 hr. 5 min.	8 hr. 20 min.	33 hr. 22 min.	30 MB/min.
EVGA [640x	29.97P 25.00P	Standard	57 min.	3 hr. 50 min.	15 hr. 20 min.	66 MB/min.
480]	29.97P 25.00P	Light	2 hr. 43 min.	10 hr. 53 min.	43 hr. 32 min.	23 MB/min.
HDR movie (p.249)		17 min.	1 hr. 10 min.	4 hr. 41 min.	216 MB/min.	
Time	-lapse movie (	p.254)	5 min.	23 min.	1 hr. 34 min.	643 MB/min.

An increase in the camera's internal temperature may cause movie shooting to stop before the total recording time shown in the table above (p.278).

#### Movie Files Exceeding 4 GB

Even if you shoot a movie exceeding 4 GB, you can keep shooting without interruption.

#### Using SD/SDHC cards formatted with the camera

If you use the camera to format an SD/SDHC card, the camera will format it in FAT32

With a FAT32-formatted card, if you shoot a movie and the file size exceeds 4 GB, a new movie file will be created automatically. When you play back the movie, you will have to play each movie file individually. Movie files cannot be played back automatically in consecutive order. After the movie playback ends, select the next movie and play it back.

#### Using SDXC cards formatted with the camera

If you use the camera to format an SDXC card, the camera will format it in exFAT

When using an exFAT-formatted card, even if the file size exceeds 4 GB during movie shooting, the movie will be saved as a single file (rather than being split into multiple files).

#### **Movie Shooting Time Limit**

The maximum recording time of one movie clip is 29 min. 59 sec. If the movie shooting time reaches 29 min. 59 sec., the movie shooting will stop automatically. You can start shooting a movie again by pressing the < **\square** > button. (The movie will be recorded as a new movie file.)

When downloading movie files exceeding 4 GB to a computer, use either the EOS Utility (p.444) or a card reader (p.448). Movie files exceeding 4 GB will not be downloaded if you perform image download with the function of the computer's operating system.

# MENU Using Movie Digital Zoom

When the recording size is FHD 2007/2003 (NTSC) or FHD 2003 (PAL), you can shoot with an approx. 3x to 10x digital zoom.

Movie rec. size	IND MARE IPS MIN
Digital zoom	Disable
Sound recording	Auto





# Set the Mode Dial to a mode other than $\langle SCN \rangle$ or $\langle Q \rangle$ .

### Select [Digital zoom].

Under the [Digital zoom], then press < SET >.

## Select [Approx. 3-10x zoom].

- Select [Approx. 3-10x zoom], then press < SET >.
- Press the <MENU> button to exit the menu and return to movie shooting.

### Use digital zoom.

- Press the <▲> <▼> keys.
- The digital zoom bar will appear.
- Press the <▲> key to zoom in or press the <▼> key to zoom out.
- When you press the shutter button halfway, the camera will focus with [Live 1-point AF] (fixed at center).
- To cancel digital zoom, set [**Disable**] in step 2.
- Using a tripod to prevent camera shake is recommended.
  - Time-lapse movie and Creative filter cannot be set.
  - The maximum ISO speed will be ISO 6400.
  - Magnified view is not possible.
  - Since Movie digital zoom processes the image digitally, the image will look grainier at higher magnifications. Noise, dots of light, etc. may also become noticeable.
  - The scene icon will not be displayed.
  - Also see "Shooting Conditions that Make Focusing Difficult" on page 221.

# HDR Shooting HDR Movies

You can reduce the clipped highlights of bright areas, which may make details hard to see, as you shoot movies even in high-contrast scenes. The recording size is  $\mathbb{F}_{HD}$  2000 [PB] (NTSC) or  $\mathbb{F}_{HD}$  2000 [PB] (PAL).



# Set the Mode Dial to <SCN>.



Shoot an HDR movie.

- Since multiple frames are merged to create an HDR movie, certain parts of the movie image may look distorted. During handheld shooting, camera shake may make the distortion look more noticeable. Using a tripod is recommended. Note that even if a tripod is used for shooting, afterimages or noise may become more noticeable when the HDR movie is played back frame-by-frame or in slow-motion compared to normal playback.
  - Movie digital zoom, video snapshot, and time-lapse movie cannot be set.

# Shooting Movies with Creative Filter Effects

In the <@> (Creative filters) mode, you can shoot movies with one of five filter effects (Dream, Old Movies, Memory, Dramatic B&W, and Miniature effect movie).

The recording size can be set to FHD 10007 / 10007 (NTSC) or <math display="inline">FHD 10007 (PAL).



Set the Mode Dial to <@>.

The Quick Control screen will appear.

## Select [:37].

Press the <▲ > <▼ > keys to select
 [½] (Creative filters) on the upper left
 of the screen, then press < SET >.

#### Select a filter effect.

- Press the <▲> <▼> keys to select a filter effect (p.251), then press <SET> and select [OK].
- The image will be displayed with the effects of the filter applied.









## Adjust the filter effect level.

- Press the < () > button and select the icon below [Creative filters].
- Press the < ◀> <►> keys to adjust the filter effect, then press < SET >.
- When the Miniature effect movie is set, select the playback speed.

# Shoot the movie.

- Magnified view is not possible.
  - The histogram is not displayed.
  - Movie digital zoom, video snapshot, and time-lapse movie cannot be set.
  - The color gradation of the sky or white walls may not be reproduced correctly. Irregular exposure, irregular colors, or noise may appear.

In Creative Zone modes, you can set Creative filters with Quick Control (p.244).

# **Creative Filter Characteristics**

#### 🕨 🧏 Dream

Creates a soft, dreamy, otherworldly atmosphere. Gives the movie a soft look overall, blurring the periphery of the screen. You can adjust the blurry areas along the screen edges.

#### 🔹 滞 Old Movies

Creates an atmosphere like an old film by adding wavering, scratches, and flickering effects to the image. The top and bottom of the screen are masked in black. You can modify the wavering and scratch effects by adjusting the filter effect.

#### 🔹 🚽 Memory

Creates the atmosphere of a distant memory. Gives the movie a soft look overall, reducing brightness of the periphery of the screen. You can modify the overall saturation and the dark areas along the screen edges by adjusting the filter effect.

#### Dramatic B&W

Creates an atmosphere of dramatic realism with high-contrast black and white. You can adjust the graininess and black-and-white effect.

#### 🛛 🛃 Miniature effect movie

You can shoot movies having a Miniature (diorama) effect. Select the playback speed and shoot.

If you want the image center to look sharp, take the picture without changing any setting.

To move the area where you want to look sharp (miniature effect frame), see "Adjusting Miniature Effect" (p.105). The AF method will be Live 1-point AF. Positioning the miniature effect frame over the AF point before shooting is recommended. During shooting, neither the AF point nor the miniature effect frame will be displayed. In step 5, set the playback speed to [5x], [10x], or [20x] and shoot.

#### Playback Speed and Length (for 1-minute movie)

Speed	Playback Length
5x	Approx. 12 sec.
10x	Approx. 6 sec.
20x	Approx. 3 sec.
# ♦ < <sup>™</sup> > (Miniature Effect Movies)

- Sound will not be recorded.
- Movie Servo AF will not function.
- Miniature effect movies whose playback time is shorter than 1 sec. cannot be edited (p.328).

## Shooting Time-lapse Movies

Images shot at a set interval can be stitched together automatically to create a movie file. A time-lapse movie shows how a subject changes in a much shorter period of time than the actual time it took. It is effective for a fixed-point observation of changing scenery, growing plants, etc. Time-lapse movies are recorded in the MOV format and in FHD TOT ALL-1 (NTSC) or FHD TOT ALL-1 (PAL) recording size.

1	Set the Mode Dial to a mode other than $\langle SCN \rangle$ or $\langle Q \rangle$ .
sission disable	<ul> <li>Select [Time-lapse movie].</li> <li>Under the [15] tab (the [13] tab in Basic Zone modes), select [Time-lapse movie] and press <set>.</set></li> </ul>
	Select [Enable].
Disable	
	9605 Disable Disable Disable (MENU 23) (Rb 5939 (FB) 2020 Disable

Do not point the camera toward an intense light source, such as the sun or an intense artificial light source. Doing so may damage the image sensor or the camera's internal components.



# Set the shooting interval and number of shots.

- Check the ['\ni : Time required] and [\box : Playback time] displayed at the bottom of the screen to set the shooting interval and number of shots.
- Set the shooting interval (hours:minutes:seconds) with [Interval].
- Set the number of shots with [No. of shots].
- Press <SET > so <↓> is displayed.
- Set the desired number, then press < SET >. (Returns to <□>.)
- After completing the settings, select [**OK**] to return to the previous screen.

#### Interval

Settable in the range from [00:00:01] to [99:59:59].

#### Number of shots

Settable in the range from [0002] to [3600]. Set one digit at a time. If 3600 is set, the time-lapse movie will be approx. 2 min. for NTSC and approx. 2 min. 24 sec. for PAL.



#### Set the exposure.

Select [Auto exposure] and set.

#### Fixed 1st frame

The second and subsequent frames will also be shot with the same exposure and other shooting function settings as the first frame.

#### Each frame

Each frame will be shot with the exposure adjusted to match the brightness of the scene. Note that function settings such as Picture Style and white balance will automatically be set for each frame when they are set to [Auto].



# Set whether to turn off the LCD monitor automatically.

• Select [LCD auto off] and set.

#### Disable

The Live View image will remain displayed during shooting. Note that the LCD monitor will turn off when approx. 30 min. elapse after the shooting started.

#### Enable

The LCD monitor will turn off approx. 10 sec. after shooting the first frame.

Vou can press the <INFO> button to turn off or on the LCD monitor during shooting.



#### Set the beeper for shooting.

- Select [Beep as img taken] and set.
- If [Disable] is set, the beeper will not sound for shooting.

#### Check the settings.

If [**¥3: Beep**] is set to [Disable], the setting in step 7 cannot be set.

#### Time required

Indicates the time required to shoot the set number of shots with the set interval. If it exceeds 24 hours, "\*\*\* days" will be displayed.

#### Playback time

Indicates the recording time (time required to play back the movie) when shooting with the set intervals to create the movie in

"FHD 2997P ALL-I (NTSC)" or "FHD 2500P ALL-I (PAL)" format.



Shots remaining



#### Exit the menu.

 Press the <MENU> button to turn off the menu screen.

#### Shoot the time-lapse movie.

- Press the shutter button halfway to check the focus and exposure.
- Press the < > button to start timelapse movie shooting.
- AF will not work during time-lapse movie shooting.
- Since the electronic shutter is used for shooting, the reflex mirror and shutter make no mechanical sound during time-lapse movie shooting.
- When the set number of shots are taken, the time-lapse movie shooting will stop and be automatically canceled.

#### Using a tripod is recommended.

- To cancel the time-lapse movie shooting, press the < > button. (The setting will be switched to [Disable].) The time-lapse movie shot so far will be recorded on the card.
- You can play back the shot time-lapse movie with this camera the same way that you play back normal movies.
- If the time required for shooting is more than 24 hours but not more than 48, "2 days" will be indicated. If three or more days are required, the number of days will be indicated in 24-hour increments.
- Even if the time-lapse movie's playback time is less than 1 sec., a movie file will still be created. For [Playback time], "00:00:00" will be displayed.
- If the shooting time is long, using the household power outlet accessories (sold separately, p.381) is recommended.
- With time-lapse movie set to [Enable], you cannot set [11: Movie rec. size] or [13: Video system].
  - Time-lapse movie shooting cannot be set when Movie digital zoom, Video snapshot or Creative filter is set, or when Wi-Fi connection is established.
  - If the camera is connected to a computer with the interface cable, or if an HDMI cable is connected to the camera, you cannot select [Enable].
  - Movie Servo AF will not function.
  - Regarding the settable shutter speed for manual exposure, see page 238.
  - With [Interval] set to 3 sec. or less and [Auto exposure] set to [Each frame], if the brightness of the subject is significantly different from that for the last shot frame, shooting may not be performed with the set interval.
  - If the image is displayed on the LCD monitor during time-lapse movie shooting, the Live View image will freeze momentarily at the time of shooting.
  - Do not zoom the lens during time-lapse movie shooting. Zooming the lens may cause the image to be out of focus, the exposure to change, or the lens aberration correction not to function properly.

- During time-lapse movie shooting, auto power off will not take effect. Also, you cannot adjust the shooting function and menu function settings, play back images, etc.
  - Sound is not recorded for time-lapse movies.
  - If the next scheduled shot is not possible, it will be skipped. This may shorten the recording time of the created time-lapse movie.
  - If the time it takes to record to the card exceeds the interval between shots due to the shooting functions set or card performance, some of the shots may not be taken with the set intervals.
  - If the card does not have enough free space to record the set number of shots, [Playback time] will be displayed in red. Although the camera can continue shooting, the shooting will stop when the card becomes full.
  - If the card has no available capacity, "remaining number of possible shots" will be displayed in red as [ 10 0000], and you will not be able to shoot.
  - If you connect the camera to a computer with an interface cable and use EOS Utility (EOS software), set [13:5: Time-lapse movie] to [Disable]. If it is set to [Enable], the camera cannot communicate with the computer.
  - During time-lapse movie shooting, the lens's Image Stabilizer will not operate.
  - If the power switch is set to <OFF>, time-lapse movie shooting will be terminated and the setting will be switched to [Disable].
  - Even if a flash is used, it will not fire.
  - Shooting-ready state of the time-lapse movie is canceled and the setting is switched to [Disable] with the following operations:
    - Performing [**Ý**3: Sensor cleaning] or performing [Clear all camera settings] under [**Ý**4: Clear settings].
  - When time-lapse movie shooting ends, the settings are cleared automatically, and the camera returns to normal movie shooting.

You can shoot time-lapse movies with a fully-charged Battery Pack LP-E17 as shown in the table below (approx. time from start of shooting until the battery becomes exhausted). The possible shooting time will vary depending on the shooting conditions.

•	Total Possible Time for Time-	apse Movie Shooting	(Approx.)
	LCD Monitor During Shooting	Room Temperature (23°C / 73°F)	Low Temperatures (0°C / 32°F)
	Turned on	2 hr. 15 min.	2 hr.
	Turned off	3 hr. 15 min.	3 hr. 10 min.
	When shooting interval is set	to [00.00.03]	

When shooting interval is set to [00:00:03]

You can use Wireless Remote Control BR-E1 (sold separately, p.382) to start and stop the time-lapse movie shooting. Set [15: Remote control] to [Enable] beforehand.

If you are using the BR-E1, set the release mode/movie shooting switch to the  $< \mathbf{R} >$  position, then press the release button.

## MENU Shooting Video Snapshots

You can shoot a series of short movie clips lasting approx. 2 sec., 4 sec., or 8 sec. called video snapshots. The video snapshots can be joined together into a single movie called a video snapshot album. You can thereby show short and quick highlights of a trip or event. A video snapshot album can also be played back together with background music (p.268, 332).



#### Setting the Video Snapshot Shooting Duration



Enable

4 sec. movie

Video snapshot

Snapshot length

Album

# Set the Mode Dial to a mode other than $\langle SCN \rangle$ or $\langle Q \rangle$ .

#### Select [Video snapshot].

Under the [15] tab (the [13] tab in Basic Zone modes), select [Video snapshot] and press < SET >.

#### Select [Enable].



- A blue bar win appear to indicate this snapshot length.
   Go to "Creating a Video Snapshot
- Go to "Creating a Video Snapshot Album" (p.263).

Shooting duration

#### Creating a Video Snapshot Album







Shooting setting	5
2. 3. 4 5	5H0075
Video snapshot	Disable
Time-lapse movie	Disable
Remote control	Disable
	MENU *>

#### Shoot the first video snapshot.

- Press the < 1 > button, then shoot.
- The blue bar indicating the shooting duration will gradually decrease. After the set shooting duration elapses, the shooting stops automatically.
- The confirmation screen will appear (p.264).

#### Save as a video snapshot album.

- Select [pt Save as album], then press < SET >.
- The movie clip will be saved as the video snapshot album's first video snapshot.

# Continue to shoot more video snapshots.

- Repeat step 8 to shoot the next video snapshot.
- Select [Bd Add to album], then press <SET>.
- To create another video snapshot album, select [[] Save as a new album].
- Repeat step 10 as necessary.

#### Exit the video snapshot shooting.

- Set [Video snapshot] to [Disable]. <u>To return to normal movie</u> shooting, be sure to set [Disable].
- Press the <MENU> button to exit the menu, and return to the normal movie shooting.

#### Options in Steps 9 and 10

Function	Description
∎∄ Save as album (Step 9)	The movie clip will be saved as the video snapshot album's first video snapshot.
ao∄ Add to album (Step 10)	The video snapshot just recorded will be added to the album recorded immediately before.
[ <sup>•</sup> ] Save as a new album (Step 10)	A new video snapshot album is created and the movie clip is saved as the first video snapshot. The new album will be a different file from the previously recorded album.
The second secon	The video snapshot just recorded will be played back. For playback operations, see the table on the next page.
<ul> <li>½ Do not save to album (Step 9)</li> <li>½ Delete without saving to album (Step 10)</li> </ul>	The video snapshot just recorded will be erased instead of being saved to the album. Select [ <b>OK</b> ] on the confirmation dialog.

-

Video snapshot	Enable
Album settings	
Show confirm msg	Disable
Snapshot length	4 sec. movie
Album	XXX-XXXX

If you want to shoot another video snapshot right after shooting one video snapshot, set [Show confirm msg] to [Disable]. This setting will allow you to immediately shoot the next video snapshot without the confirmation screen appearing after you shoot each time.

#### [Playback video snapshot] Operations in Steps 9 and 10

Function	Playback Description
► Play	By pressing <set>, you can play back or pause the video snapshot recorded immediately before.</set>
H First frame	Displays the first scene of the album's first video snapshot.
I Skip backward*	Each time you press <set>, the video snapshot skips back by a few seconds.</set>
Ill Previous frame	Displays the previous frame each time you press <set>. Holding <set> down will rewind the movie.</set></set>
II▶ Next frame	Plays the movie frame-by-frame each time you press <set>. Holding <set> down will fast forward the movie.</set></set>
I Skip forward*	Each time you press <set>, the video snapshot skips forward by a few seconds.</set>
₩ Last frame	Displays the last scene of the album's last video snapshot.
	Playback position
mm' ss"	Playback time (minutes:seconds)
Juli Volume	Turn the $<$ $>$ dial to adjust the volume of the built-in speaker (p.326).
Menu 5	Pressing the <menu> button returns to the previous screen.</menu>

\* With [Skip backward] and [Skip forward], the skipping length corresponds to the number of seconds set under [Video snapshot] (approx. 2 sec., 4 sec., or 8 sec.).

#### Adding to an Existing Album



#### Select [Add to existing album].

 Follow step 5 on page 262 to select [Add to existing album], then press <SET>.



#### Select an existing album.

- Press the <◄> <►> keys to select an existing album, then press <SET>.
- Select [OK], then press <SET >.
- Certain video snapshot settings will change to match the existing album's settings.
- Press the <MENU> button to exit the menu.
- The video snapshot shooting screen will appear.

#### Shoot the video snapshot.

 See "Creating a Video Snapshot Album" (p.263) to shoot the video snapshot.

You cannot select an album shot with another camera.

## Cautions for Shooting Video Snapshots

- You can add to an album only the video snapshots with the same duration (approx. 2 sec., 4 sec., or 8 sec. each).
- Note that if you do any of the following while shooting video snapshots, a new album will be created for subsequent video snapshots.
  - · Changing the [Movie rec. size].
  - Changing the [Sound rec.] setting from [Auto]/[Manual] to [Disable] or from [Disable] to [Auto]/[Manual].
  - · Updating the firmware.

 The shooting duration of a video snapshot is only approximate. Depending on the frame rate, the shooting duration displayed during playback may not be exact.

#### **Playing Back an Album**

You can play back a video snapshot album in the same way as a normal movie (p.326).



#### Play back the movie.

Press the < > button to display an image.



# 

#### Select the album.

- In the single-image display, the
   [2 19] icon displayed on the upper left of the screen indicates a video snapshot album.
- Press the <◄> <►> keys to select an album.

#### Play back the album.

- Press the < Av 2 > button.
- On the movie playback panel displayed, select [▶] (Play), then press < SET >.

#### Background Music

- You can play background music when you play back albums, normal movies, and slide shows on the camera (p.327, 332). To play background music, you must first copy the background music to the card using EOS Utility (EOS software). For information on how to copy the background music, refer to the EOS Utility Instruction Manual.
- Music recorded on the memory card must be used only for private enjoyment. Do not violate the rights of the copyright holder.

#### Editing an Album

After shooting, you can rearrange, delete, or play back the video snapshots in the album.



#### Select [%].

- On the movie playback panel displayed, select [X] (Edit), then press < SET >.
- The editing screen will be displayed.



#### Select an editing operation.

 Select an editing option, then press <SET >.

Function	Description
<i>ਦ</i> ੇ Move snapshot	Press the <◀> <►> keys to select the video snapshot you want to move, then press <set>. Press the &lt;◀&gt; &lt;►&gt; keys to move the snapshot, then press <set>.</set></set>
ี่∭ Delete snapshot	Press the <◀> <►> keys to select the video snapshot you want to delete, then press <set>. The [m] icon will be displayed on the selected video snapshot. Pressing <set> again will cancel the selection and [m] will disappear.</set></set>
Play snapshot	Press the <◀> <►> keys to select the video snapshot you want to play back, then press <set>.</set>



#### Save the edited album.

- Press the <MENU> button to return to the Editing panel at the screen bottom.
- Select [[]] (Save), then press <SET>.
- ▶ The save screen will appear.
- To save it as a new album, select [New file]. To save it and overwrite the original album, select [Overwrite], then press <SET >.

If the card does not have enough free space, [New file] will not be available.

 When the battery level is low, editing albums is not possible. Use a fullycharged battery.

## **MENU Menu Function Settings**

When the power switch is set to  $<^{!} = >$ , the [ $\square 1$ ], [ $\square 4$ ], and [ $\square 5$ ] tabs will be displayed as the menu options exclusive to movie shooting (the [ $\square 1$ ], [ $\square 2$ ], and [ $\square 3$ ] tabs in Basic Zone modes).



#### **D**1

#### Movie recording size

You can set the movie recording size (image size, frame rate, and compression method). For details, see page 245.

#### Digital zoom

You can use digital zoom for telephoto shooting. For details, see page 248.

#### Sound recording \*



Level meter

Normally, the built-in microphones will record the sound in stereo. If the Directional Stereo Microphone DM-E1 (sold separately) is connected to the camera's external microphone IN terminal (p.28), the external microphone will be given the priority.

#### [Sound rec./Rec. level] options

- [Auto] : The sound-recording level is adjusted automatically. Auto level control will operate automatically in response to the sound level.
- [Manual] : For advanced users. You can adjust the sound-recording level to one of 64 levels. Select [Rec. level] and press the <◀> <►> keys while looking at the level meter to adjust the sound-recording level. Look at the peak hold indicator (approx. 3 sec.), and adjust so that the level meter sometimes lights up on the right of the "12" (-12 dB) mark for the loudest sounds. If it exceeds "0", the sound will be distorted.

[Disable] : Sound will not be recorded.

#### [Wind filter]

When set to [Auto], it reduces wind noise when there is wind outdoors. This feature works only when you use the built-in microphones for movie shooting. When the wind filter function takes effect, part of the low bass sounds will also be reduced.

#### [Attenuator]

Automatically suppresses sound distortion caused by loud noises. Even if [**Sound rec.**] is set to [**Auto**] or [**Manual**] for shooting, sound distortion may still result if there is a very loud sound. In such a case, setting it to [**Enable**] is recommended.

If you use the Wi-Fi (wireless communication) function with an external microphone, the sound noise may be recorded. During sound recording, using the wireless communication function is not recommended.

- In Basic Zone modes, the settings available for [Sound recording] will be [On]/[Off]. If [On] is set, the sound-recording level will be adjusted automatically (same as with [Auto]), and the wind filter function will take effect.
  - The sound volume balance between L (left) and R (right) cannot be adjusted.
  - For both L and R, audio is recorded at a 48 kHz/16-bit sampling rate.

#### Lens aberration correction \*

You can set peripheral illumination correction and chromatic aberration correction. For details, see page 153.

#### Lens electronic MF \*

When a lens equipped with an electronic manual focusing function is used, see page 118.

#### **Ô**4

#### Movie Servo AF

With this function enabled, the camera focuses on the subject continuously during movie shooting. The default setting is **[Enable]**. When **[Enable]** is set:

- The camera focuses on the subject continuously even when you are not pressing the shutter button halfway.
- If you want to keep the focus at a specific point or if you do not want the lens mechanical sound to be recorded, you can temporarily stop Movie Servo AF as follows.
  - Tap [\*; ] on the screen's bottom left.
  - Press the < 4 > button.
  - Under [¥4: Custom Functions(C.Fn)], if [8: Shutter/AE lock button] is set to [2:AF/AF lock, no AE lock], you can pause the Movie Servo AF while holding down the <★> button. When you let go of the <★> button, Movie Servo AF will resume.
- When Movie Servo AF is paused, if you return to movie shooting after operations such as pressing the <MENU> or <I>> button or changing the AF method, Movie Servo AF will resume.

#### When [Disable] is set:

• Press the shutter button halfway to focus.

#### Cautions When [Movie Servo AF] is Set to [Enable]

#### Shooting Conditions that Make Focusing Difficult

- · A fast-moving subject approaching or moving away from the camera.
- A subject moving at a close distance to the camera.
- Also see "Shooting Conditions that Make Focusing Difficult" on page 221.
- Since the lens is driven continuously and battery power is consumed, the possible movie shooting time (p.246) will be shortened.
- With certain lenses, the mechanical sound for focusing may be recorded. In such a case, using Directional Stereo Microphone DM-E1 (sold separately) may reduce such sounds in the movie. Also, using certain USM lenses (for example, the EF-S18-135mm f/3.5-5.6 IS USM) or certain STM lenses (for example, the EF-S18-55mm f/4-5.6 IS STM) will reduce the lens mechanical sound that is recorded.
- Movie Servo AF will pause during zooming or magnified view.
- During movie shooting, if a subject approaches or moves away or if the camera is moved vertically or horizontally (panning), the recorded movie image may momentarily expand or contract (change in image magnification).
- If you want to set the lens's focus mode switch to <MF> during Movie Servo AF, first set the camera's power switch to <ON>.

#### AF method

The AF methods are the same as described on pages 214-223. You can select [:+Tracking], [Smooth zone], or [Live 1-point AF].

#### Metering timer\*

You can change how long the exposure setting is displayed (AE lock time).

#### Grid display

With [**3x3 #**] or [**6x4 ##**], you can display grid lines to help you level the camera vertically or horizontally before shooting. Also, with [**3x3+diag ¥**], the grid is displayed together with diagonal lines to help you compose with better balance by aligning the intersections over the subject.

Note that the grid is not displayed on the LCD monitor during movie shooting.

#### Sutton function

You can set the functions performed by pressing the shutter button halfway or completely during movie shooting.

Setting	Pressing halfway	Pressing completely
I®AF/-	Metering and AF	No function
۱.	Metering only	No function
Ĩ®AF/♪₩	Metering and AF	Starts/stops movie shooting
<u>۱</u>	Metering only	Starts/stops movie shooting

If  $[\mathbb{R}_{\mathbf{F}}/\mathbb{R}]$  or  $[\mathbb{R}/\mathbb{R}]$  is set, besides pressing the < $\square$  > button, you can start or stop the movie shooting by pressing the shutter button completely or by using Remote Switch RS-60E3 (sold separately, p.385).

During movie shooting, the [ btn function] setting overrides any function assigned to the shutter button with [8: Shutter/AE lock button] under [ 4: Custom Functions(C.Fn)].

#### **D**5

#### Video snapshot

You can shoot video snapshots. For details, see page 261.

#### Time-lapse movie

You can shoot time-lapse movies. For details, see page 254.

#### Remote control shooting

When **[Enable]** is set, you can start or stop movie shooting using Wireless Remote Control BR-E1 (sold separately, p.382). If you are using the BR-E1, set the release mode/movie shooting switch to the  $<^{\bullet}$  position, then press the release button.

#### ISO Speed During Movie Shooting $\star$

You can set the ISO speed separately for still photo shooting and movie shooting. Set under the [**D**2] tab.

	31 (4 (19))	5H0015
Exp	osure comp.	3.2.1.0.1.2.3
-	ISO speed	Auto
-	ISO Auto	Max.:12800
Au	to Lighting Opti	mizer 🚯

#### ['\, ISO speed]

In manual exposure, you can set the ISO speed (p.239).

#### ['\, ISO Auto]

You can set the maximum limit of the automatic ISO speed for ISO Auto to ISO 6400 or ISO 12800.

Under [**¥**4: Custom Functions(C.Fn)], if [2: ISO expansion] is set to [1:On], you can select [Max.:H(25600)].

## General Movie Shooting Cautions

#### Red < 11 > Internal Temperature Warning Icon

- If the camera's internal temperature increases due to prolonged movie shooting or under a high ambient temperature, a red < 10 > icon will appear.
- The red < >> icon indicates that movie shooting will soon be terminated automatically. If this happens, you will not be able to shoot again until the camera's internal temperature decreases. Turn off the power and let the camera rest for a while.
- Shooting a movie at a high temperature for a prolonged period will cause the <100 > icon to appear earlier. When you are not shooting, always turn off the camera.

#### **Recording and Image Quality**

- If the attached lens has an Image Stabilizer and you set the Image Stabilizer (IS) switch to <0N>, the Image Stabilizer will operate at all times even if you do not press the shutter button halfway. The Image Stabilizer consumes battery power and may shorten the total movie shooting time depending on the shooting conditions. When the Image Stabilizer is not necessary, such as when using a tripod, it is recommended that you set the IS switch to <0FF>.
- The camera's built-in microphones will also record the operation sound and mechanical sound of the camera during shooting. Using the Directional Stereo Microphone DM-E1 (sold separately) may reduce these sounds in the movie.
- Do not connect anything other than an external microphone to the camera's external microphone IN terminal.
- If the brightness changes during autoexposure movie shooting, the movie image may freeze temporarily. In such a case, shoot movies with manual exposure.
- If there is a very bright light source in the image, the bright area may appear black on the LCD monitor. The movie will be recorded almost exactly as it appears on the LCD monitor.
- In low light, noise or irregular colors may appear in the image. The movie will be recorded almost exactly as it appears on the LCD monitor.
- If you play back a movie with other devices, image or sound quality may deteriorate or playback may not be possible (even if the devices support MOV/MP4 format).

#### General Movie Shooting Cautions

#### Recording and Image Quality

If you use a card with a slow writing speed, a five-level indicator may appear on the right of the screen during movie shooting. It indicates how much data has not yet been written to the card (remaining capacity of the internal buffer memory). The slower the card, the faster the indicator will climb upward. If the indicator becomes full, movie shooting will stop automatically.



If the card has a fast writing speed, the indicator will either not appear or the level (if displayed) will hardly go upward.

First, shoot a few test movies to see if the card can write fast enough.

#### Playback and TV Connection

 If you connect the camera to a TV set (p.333) and shoot a movie, the TV set will not output any sound during the shooting. However, the sound will be properly recorded.

## Restrictions on MP4-format Movies

Note that generally, the following restrictions apply to MP4-format movies.

- Sound will not be recorded for approx. the last two frames.
- When you play back movies on Windows, movie images and sound may become slightly out of synchronization.


# Handy Features

- Geotagging Images (p.282)
- Disabling the Beeper (p.287)
- Card Reminder (p.287)
- Setting the Image Review Time (p.288)
- Setting the Auto Power Off Time (p.288)
- Adjusting the LCD Monitor Brightness (p.289)
- Creating and Selecting a Folder (p.290)
- File Numbering Methods (p.292)
- Setting the Copyright Information (p.295)
- Auto Rotation of Vertical Images (p.297)
- Reverting the Camera to the Default Settings (p.298)
- Turning the LCD Monitor Off/On (p.301)
- Automatic Sensor Cleaning (p.302)
- Appending Dust Delete Data (p.304)
- Manual Sensor Cleaning (p.306)

## MENU Geotagging Images

Using the GPS Receiver GP-E2 (sold separately) or a Bluetoothcompatible smartphone, you can append location information to images.

#### When Using GP-E2

Function setting	264
2 3 4	SET UPS
Auto power off	10 sec/30 sec
LCD brightness	********
LCD off/on btn	Shutter btn.
Date/Time/Zone	03/03/17 04:30
Language	English
GP5 device setting	\$
	production in the second
	MENU 🍮
	MENU 🔊
GPS device setting	
GPS device setting Select GPS device	s
	s
Select GPS device	s

#### Attach the GP-E2 to the camera.

 Attach the GP-E2 to the camera's hot shoe (p.28) and turn it on. For details, refer to the GP-E2 Instruction Manual.

#### Select [GPS device settings].

Under the [¥2] tab, select [GPS device settings].

#### Select [GPS receiver].

Select [GPS receiver] in [Select GPS device].

#### Take the picture.

- The location information acquired with the GP-E2 will be appended to the images.
- For the details of [**Set up**], refer to the GP-E2 Instruction Manual.

#### Cautions for Using GP-E2

MENU .

- At first, check the countries and regions where the use of GPS is allowed, and follow their legal restrictions.
- Update the GP-E2 firmware to Version 2.0.0 or later. When updating the firmware, the interface cable (sold separately, p.401) is required. For how to update the GP-E2 firmware, refer to the Canon Web site.
- The GP-E2 cannot be connected to the camera with the cable that comes with the GP-E2.
- Note that the digital compass cannot be used with this camera. (Shooting direction will not be recorded.)

#### When Using a Smartphone

The dedicated application Camera Connect (free of charge) must be installed on the smartphone. For details on how to install Camera Connect, refer to the Wi-Fi (Wireless Communication) Function Instruction Manual.

#### Setting up Smartphone on GPS Device



2 1 4	SET MP2
Auto power off	10 sec/30 sec
LCD brightness	*******
LCD off/on btn	Shutter btn.
Date/Time/Zone	03/03/17 04:30
Language	English
GPS device setting	IS
	MENU *>

# Turn on the smartphone's location information function.

#### Start Camera Connect.

Tap on the smartphone's Camera Connect icon to start it.

#### Connect to Bluetooth.

 Connect the camera and a smartphone via Bluetooth. For details, refer to the Wi-Fi Instruction Manual.

#### Select [GPS device settings].

Under the [¥2] tab, select [GPS device settings].

Select GPS device	Smartphone
GPS information di	colay
ars information of	shiay

Latitude	N30°30'30.0'
Longitude	W30°30'30.0'
Elevation	50m
UTC	03/03/2017 04:30:00

#### Select [Smartphone].

- Select [Smartphone] in [Select GPS device].
- Acquiring the location information from the smartphone becomes possible.
- On the [GPS device settings] screen, select [GPS information display] to check the acquired geotag information (latitude, longitude, elevation, and Coordinated Universal Time: UTC).

#### A Take the picture.

 The location information acquired by the smartphone will be appended to the image.

#### **GPS Connection Display**

With the Quick Control screen's GPS connection indicator (p.32), you can check the status of location information acquisition from the smartphone.

- Gray: Location information acquisition interrupted.\*
- Blinking: Location information not acquired.
- On: Location information acquired.
  - \* This status indicates that a Bluetooth connection was established between the camera and the smartphone, but either the smartphone is unable to acquire the location information or the Bluetooth connection has been terminated.

Regarding the GPS connection indicator status for when the GP-E2 is used, refer to the GP-E2 Instruction Manual.

#### Geotagging the Image when Taking Pictures

When you take a picture with the location information already acquired, the location information will be appended to the image.

#### Location Information Appended to the Image

On the shooting information screen, you can check the location information appended to the captured image. For details, see page 111.



UTC (Coordinated Universal Time)

- If 2: GPS device settings] cannot be selected if the camera is connected to a computer with an interface cable.
  - The smartphone can acquire location information only when the camera is connected to a smartphone via Bluetooth.
  - Direction information is not acquired.
  - The acquired location information may not be accurate depending on the travel conditions and the smartphone's status.
  - After the location information is acquired, doing any of the following will erase the acquired location information.
    - · Setting [Bluetooth function] to a setting other than [Smartphone].
    - · Turning off the camera.
    - Terminating Camera Connect.
    - Turning off the smartphone's location information function.
  - After the location information is acquired, any of the following conditions will erase the acquired location information.
    - · The camera power turns off.
    - · Bluetooth connection is terminated.
    - · The smartphone's remaining battery power is low.
  - If you operate the smartphone and establish a Wi-Fi connection when the camera is in the auto power off state, location information may not be acquired. Note that if the location data is acquired, the GPS connection indicator will light up on the Quick Control screen.
- Coordinated Universal Time, abbreviated as UTC, is essentially the same as Greenwich Mean Time.
  - When shooting a movie, the GPS information at the starting time of the movie shooting is appended.

## Handy Features

#### MENU Disabling the Beeper

You can prevent the beeper from sounding when focus is achieved, during self-timer shooting, and during touch operations.

	settings
1 2 3 4	eru 13)
Beep	Enable
Beep	Enable Touch A

Under the [ $\P$  3] tab, select [Beep], then press <SET>. Select [Disable], then press <SET>. To silence the beeper only for touch operations, select [Touch  $\not{\mathbb{X}}$ ].

#### MENU Card Reminder

This setting prevents shooting if there is no card in the camera.

Shooting setting	195	
1 2 1 4		SHEETI
Image quality	<b>⊿</b> L	
Drive mode	⊡ ¢}#	
Image review	2 sec.	
Release shutter wi	ithout card	ON
Release shutter wi	ithout card	
Disable		

Under the [**1**] tab, select [**Release shutter without card**], then press <**SET**>. Select [**Disable**], then press <**SET**>.

If there is no card inserted in the camera and you press the shutter button, "**Card**" will be displayed in the viewfinder, and you cannot release the shutter.

#### MENU Setting the Image Review Time

You can change how long the image is displayed on the LCD monitor immediately after shooting. If **[Off]** is set, the image will not be displayed immediately after shooting. If **[Hold]** is set, the image review will be displayed up until the **[Auto power off]** time has elapsed.

Note that during image review, if you operate any camera controls such as pressing the shutter button halfway, the image review will end.

2. 3. 4		5H00TI
	Off	-
Image review	2 sec.	
	4 sec.	
	8 sec.	
	Hold	

Under the [**D**1] tab, select [**Image review**], then press <SET>. Select the desired setting, then press <SET>.

#### MENU Setting the Auto Power Off Time

To save battery power, the camera turns off automatically after a set time of idle operation elapses. When the camera is turned off due to auto power off, you can turn it on again by pressing the shutter button, etc. If [Disable] is set, either turn off the camera or press the <DISP> button to turn off the LCD monitor to save battery power. Even if [Disable] is set, the LCD monitor will turn off after the camera is left idle for approx. 30 min. To turn on the LCD monitor again, press the <DISP> button.

	8 n	nin.	
10"/30"	30"	1'	2'
4'	8'	15'	OFF

Under the [ $\mathbf{\Psi}$ 2] tab, select [Auto power off], then press <SET>. Select the desired setting, then press <SET>.

If [10 sec/30 sec] is set, the camera will turn off after it is left idle for approx. 10 sec. When setting functions or during Live View shooting, movie shooting, image playback, etc., the auto power off time will be approx. 30 sec.
#### MEND Adjusting the LCD Monitor Brightness

You can adjust the brightness of the LCD monitor to make it easier to view.



Under the [ $\mathbf{\Psi}$ 2] tab, select [LCD brightness], then press <SET>. Press the < $\mathbf{\Psi}$ > keys to adjust the brightness on the adjustment screen, then press <SET>.

When checking the exposure of an image, set the LCD monitor brightness to 4 and prevent the ambient light from affecting the image.

#### MENU Creating and Selecting a Folder

You can freely create and select the folder where the captured images are to be saved.

This operation is optional since a folder will be created automatically for saving captured images.

#### **Creating a Folder**

#### Select [Select folder]. Function settings SET NP1 Under the [ 1] tab, select [Select Select folder folder], then press <SET>. File numbering Continuous Auto rotate On C U Format card Wireless communication settings MENU 5 Select [Create folder]. Select folder 10000000 Select [Create folder], then press Create folder <SET>. SET OK Create a new folder. Select folder Select [OK], then press < SET >. A new folder with the folder number Create folder 101 increased by one is created. Cancel OK

#### Selecting a Folder

Lowest file number Number of images in folder

100CANON	46	201105-0
101CANON	2	
102CANON	320	100
103CANON	214	154110550
104CANON	84	1000
105CANON	15	1000

Folder name

Highest file number

- With the folder selection screen displayed, select a folder and press <SFT>
- The folder where the captured images will be saved is selected.
- Subsequently captured images will be recorded into the selected folder



#### Folders

As with "100CANON" for example, the folder name starts with three digits (the folder number) followed by five alphanumeric characters. A folder can contain up to 9999 images (file number 0001 - 9999). When a folder becomes full, a new folder with the folder number increased by one is created automatically. Also, if manual reset (p.294) is executed, a new folder will be created automatically. Folders numbered from 100 to 999 can he created

#### Creating Folders with a Computer

With the card open on the screen, create a new folder named "DCIM". Open the DCIM folder and create as many folders as necessary to save and organize your images. The folder name must follow the format "100ABC D". The first three digits are always the folder number from 100 to 999. The last five characters can be any combination of upper- and lowercase letters from A to Z, numerals, and the underscore " ". The space cannot be used. Also note that two folder names cannot share the same three-digit folder number (for example, "100ABC D" and "100W XYZ"), even if the last five characters in each name are different.

#### MENU File Numbering Methods

The image files will be numbered from 0001 to 9999 in the order the images are taken, then saved in a folder. You can change how the file number is assigned.

The file number will appear on your computer in this format: **IMG\_0001.JPG**.

Numbering	Continuous
	Auto reset

In [File numbering] under the [**Ý**1] tab, select [Numbering], then press <SET>. The available settings are described below. Select the option, then press <SET>.

#### [Continuous]: When you wish to continue the file numbering sequence even after the card is replaced or a new folder is created.

Even after you replace the card or create a new folder, the file numbering continues in sequence up to 9999. This is useful when you want to save images numbered anywhere between 0001 to 9999 on multiple cards or in multiple folders into one folder on a computer.

If the replacement card or existing folder already contains images recorded previously, the file numbering of the new images may continue from the file numbering of the existing images on the card or in the folder. If you want to use continuous file numbering, it is recommended that you use a newly-formatted card each time.









Next sequential file number

 [Auto reset]: When you wish to restart the file numbering from 0001 each time the card is replaced or a new folder is created.

When you replace the card or create a folder, the file numbering restarts from 0001 for the new images saved. This is useful if you want to organize images by cards or folders.

If the replacement card or existing folder already contains images recorded previously, the file numbering of the new images may continue from the file numbering of the existing images on the card or in the folder. If you want to save images with the file numbering starting from 0001, use a newly formatted card each time.



 [Manual reset]: When you wish to reset the file numbering to 0001 or to start from file number 0001 in a new folder.

File numbering	
Numbering	Continuous
Manual reset	

In [File numbering] under the [**Ý**1] tab, select [Manual reset], then select [OK] on the confirmation dialog.

When you reset the file numbering manually, a new folder is created automatically and the file numbering of images saved to that folder starts from 0001.

This is useful, for example, if you want to use different folders for the images taken yesterday and the ones taken today. After the manual reset, the file numbering returns to continuous or auto reset. (There will be no manual reset confirmation dialog.)

If the file number in folder 999 reaches 9999, shooting will not be possible even if the card still has storage capacity. The LCD monitor will display a message telling you to replace the card. Replace it with a new card.

For both JPEG and RAW images, the file name will start with "IMG\_". Movie file names will start with "MVI\_". The extension will be ".JPG" for JPEG images, ".CR2" for RAW images, and ".MOV" or ".MP4" for movies.

#### MENU Setting the Copyright Information\*

When you set the copyright information, it will be appended to the image as Exif information.





- After entering the text, press the <MENU> button, then select [OK].
- The set information is saved.

#### **Checking the Copyright Information**

Display copyright info.	
Author	
XXXXX, XXXXX	
Conwight	

Copyright Canon Inc.

MENU \*

When you select [**Display copyright info.**] in step 2, you can check the [**Author**] and [**Copyright**] information that you entered.

#### **Deleting the Copyright Information**

When you select [**Delete copyright information**] in step 2, you can delete the [**Author**] and [**Copyright**] information.

If the entry for "Author" or "Copyright" is long, it may not be displayed entirely when you select [Display copyright info.].

If you cannot enter text in step 3, press the <Av<sup>I</sup>≥ > button and use the character palette when the blue frame appears.

 You can also set or check the copyright information with EOS Utility (EOS software, p.444).

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#### MENU Setting the Auto Rotation of Vertical Images



Images shot in vertical orientation are rotated automatically to the proper orientation for viewing, so they will not be displayed in horizontal orientation when played back on the camera's LCD monitor or viewed on a computer screen. You can change the setting of this feature.



Under the [**Ý1**] tab, select [Auto rotate], then press <SET>. The available settings are described below. Select the option, then press <SET>.

- [On ]: The vertical image is automatically rotated during playback on both the camera's LCD monitor and on the computer screen.
- [On ] : The vertical image is automatically rotated only on the computer screen.
- [Off] : The vertical image is not automatically rotated.

#### ? FAQ

• The vertical image is not rotated during the image review just after shooting.

Press the < > button and the image playback will display the rotated image.

- [On D ] is set, but the image does not rotate during playback. Auto rotate will not work with vertical images captured while [Auto rotate] was set to [Off]. If the vertical image is taken while the camera is pointed up or down, the image may not be rotated automatically for playback. In such a case, see "Rotating the Image" on page 316.
- On the camera's LCD monitor, I want to rotate an image captured when [On ] had been set.
   Set [On ], then play back the image. It will be rotated.
- The vertical image does not rotate on the computer screen. The software used is not compatible with image rotation. Use EOS software instead.

#### **MENU** Reverting the Camera to the Default Settings $\star$

The camera's shooting function settings and menu settings can be reverted to their defaults. This option is available in Creative Zone modes.



#### Select [Clear settings].

Under the [¥4] tab, select [Clear settings], then press <SET >.

#### Select [Clear all camera settings].

 Select [Clear all camera settings], then press <SET>.



#### Select [OK].

- Select [OK], then press <SET >.
- The camera settings will be reset to the default settings shown on pages 299-300.

#### ? FAQ

#### Clearing all camera settings

After the procedure above, select [Clear all Custom Func. (C.Fn)] in [**¥4: Clear settings**] to clear all the Custom Function settings (p.364).

#### **Shooting Function Settings**

Image Recording Settings

<scn> mode</scn>	(Portrait)	Image quality	▲L
<@> mode	🔒 (Grainy B/W)	Picture Style	Auto
AF operation	One-Shot AF	Auto Lighting	Standard
AF point selection	Auto selection	Optimizer	Standard
Drive mode		Lens aberration corr	ection
Drive mode	(Single shooting)	Peripheral illumination	Enable
Metering mode	(Evaluative)	correction	Enable
metering mode	metering)	Chromatic aberration	Enable
ISO speed	AUTO (Auto)	correction	Enable
ISO Auto	Maximum 6400	Distortion correction	Disable
Exposure	Canceled	Diffraction correction	Enable
compensation/AEB	Caliceleu	Lens electronic MF	Disable after
Flash exposure	Canceled		One-Shot AF
compensation	Canceled	White balance	Auto: Ambience priority
Red-eye reduction	Disable	white balance	
Custom Functions	Unchanged	Custom White Balance	Canceled
Flash control		White balance shift	Canceled
Flash firing	Enable	White balance	Canceled
E-TTL II flash	Evaluative flash	bracketing	Canceleu
metering	metering	Color space	sRGB
Flash sync. speed in Av mode	Auto	Long exposure noise reduction	Disable
Display Level Settings		High ISO speed	
Shooting screen			Standard
Menu display	Guided	File numbering	Continuous
Mode guide	Enable	Auto cleaning	Enable
Feature guide	Enable	Dust Delete Data	Erased

#### Camera Settings

	-
Auto power off	10 sec./30 sec.
Beep	Enable
Release shutter without card	Enable
Image review time	2 sec.
AF point display	Disable
Histogram display	Brightness
Image jump w/ 📇	:n₀ (10 images)
Auto rotate	On 🗖 📃
LCD brightness	* +++•••
LCD off/on button	Shutter button
Date/Time/Zone	Unchanged
Language	Unchanged
GPS device settings	Disable
Video system	Unchanged
Touch control	Standard
Copyright information	Unchanged
Control over HDMI	Disable
Eye-Fi transmission	Disable
Configure: MY MENU	Unchanged
Menu display Normal displa	
Wireless communica	tion settings
Wi-Fi	Disable
Bluetooth function	Disable

Live View Shooting Settings		
Live View shooting	Enable	
Aspect ratio	3:2	
AF method	: +Tracking	
AF operation	ONE SHOT	
Touch Shutter	Disable	
Metering timer	8 sec.	
Grid display	Off	
Creative filters	Disable	
Movie Shooting Settings		
<@>mode	🖈 (Dream)	
AF method	・ ・ + Tracking	
Movie Servo AF	Enable	
Movie recording size	NTSC: FHD 29972 (Standard) PAL: FHD 25002 (Standard)	
Digital zoom	Disable	
ISO speed	AUTO (Auto)	
ISO Auto	Maximum 12800	
Sound recording	Auto	
Wind filter	Auto	
Attenuator	Disable	
Grid display	Off	
Sutton function	Ĩ€AF/-	
Video snapshot	Disable	
	Disable	
Time-lapse movie		
Time-lapse movie Remote control shooting	Disable	

For how to clear all the Custom Function settings, see page 364.
 For wireless communication settings, refer to the Wi-Fi (Wireless Communication) Function Instruction Manual.

#### MENU Turning the LCD Monitor Off/On

You can set the camera so that the LCD monitor does not turn off and on as you press the shutter button halfway (or press the  $< \frac{1}{2} >$  button/ depth-of-field preview button).



Under the [ $\mathbf{\Psi}$ 2] tab, select [LCD off/on btn], then press <SET>. The available settings are described below. Select the option, then press <SET>.

- [Shutter btn.] : When you press the shutter button halfway, the display will turn off. When you let go of the shutter button, the display will turn on.
   [Shutter/DISP] : When you press the shutter button halfway, the
- display will turn off. The display will remain off even after you let go of the shutter button. To turn on the display, press the <DISP > button.
- [Remains on] : Display remains on even when you press the shutter button halfway. To turn off the display, press the <DISP> button.

## ,⁺⊡+ Automatic Sensor Cleaning

Whenever you set the power switch to < ON> or < OFF>, the Self Cleaning Sensor Unit is activated to automatically shake off the dust on the front of the sensor. Normally, you need not pay attention to this operation. However, you can manually perform sensor cleaning or can disable this unit as follows.

#### Activating the Sensor Cleaning Manually Select [Sensor cleaning]. Function settings SET MES Under the [ 43] tab, select [Sensor For NTSC Video system Standard cleaning], then press <SET>. Touch control Switch M/¥button Disable Beep Enable Battery info. Sensor cleaning MENU 3 Select [Clean now 1 ]. Sensor cleaning Auto cleaning. Enable Select [Clean now , then press Clean now. <SET>. Clean manually Select [OK], then press < SET >. The screen will indicate that the sensor is being cleaned. (A small sound may MENU \* be heard.) Although there will be a mechanical sound of the shutter during

When Multi Shot Noise Reduction is set, [Clean now.<sup>+</sup>-----] cannot be selected.

- For best results, perform the sensor cleaning with the camera placed upright and stable on a table or other flat surface.
  - Even if you repeat the sensor cleaning, the result will not improve much. Immediately after the sensor cleaning is finished, the [Clean now , ]
     option remains disabled temporarily.

the cleaning, no picture is taken.

#### **Disabling Automatic Sensor Cleaning**

- In step 2, select [Auto cleaning ,<sup>†</sup>→ ] and set it to [Disable].
- The sensor will no longer be cleaned when you set the power switch to <ON> or <OFF>.

## MENU Appending Dust Delete Data \*

Normally, the Self Cleaning Sensor Unit will eliminate most of the dust that may be visible on captured images. However, for the case where visible dust still remains, you can append the Dust Delete Data to the image for erasing the dust spots later. The Dust Delete Data is used by Digital Photo Professional (EOS software, p.444) to erase the dust spots automatically.

#### Preparation

- Prepare a solid white object such as a sheet of paper.
- Set the lens focal length to 50 mm or longer.
- Set the lens's focus mode switch to <MF> and set the focus to infinity (∞). If the lens has no distance scale, rotate the camera to face toward you and turn the focusing ring clockwise all the way.

#### **Obtaining the Dust Delete Data**



### 

Sensor cleaning

#### Select [Dust Delete Data].

Under the [1] 4] tab, select [Dust Delete Data], then press <SET>.

#### Select [OK].

When you select [OK] and press <SET>, the automatic sensor cleaning will be performed, then a message will appear. Although there will be a mechanical sound of the shutter during the cleaning, no picture is taken.

Dust	Delete D	ata

Fully press the shutter button, when ready

	Γ		
--	---	--	--

Dust D	elete Data	
	Data obtained	
	OK	

#### Shoot a solid-white object.

- At a distance of 20 cm 30 cm (0.7 ft. - 1.0 ft.), fill the viewfinder with a patternless, solid-white object and take a picture.
- The picture will be taken in aperturepriority AE mode at an aperture of f/22.
- Since the image will not be saved, the data can still be obtained even if there is no card in the camera.
- When the picture is taken, the camera will start collecting the Dust Delete Data. When the Dust Delete Data is obtained, a message will appear. Select [OK] and the menu will reappear.
- If the data is not obtained successfully, an error message will appear. Follow the "Preparation" procedure on the preceding page, then select [OK]. Take the picture again.

#### Dust Delete Data

After the Dust Delete Data is obtained, it is appended to all the JPEG and RAW images captured thereafter. Before an important shoot, it is recommended that you update the Dust Delete Data by obtaining it again.

For details about using Digital Photo Professional (EOS software) to erase dust spots automatically, refer to the Digital Photo Professional Instruction Manual.

The Dust Delete Data appended to the image is so small that it hardly affects the image file size.

Be sure to use a solid-white object such as a new sheet of white paper. If the object has any pattern or design, it may be recognized as dust data and affect the accuracy of the dust deletion with EOS software.

## MENU Manual Sensor Cleaning \*

Dust that could not be removed by the automatic sensor cleaning can be removed manually with a commercially-available blower, etc. Before cleaning the sensor, detach the lens from the camera.

The image sensor is extremely delicate. If the sensor needs to be cleaned directly, having it done by a Canon Service Center is recommended.



Set the power switch to <OFF>.

If you use a battery, make sure it is fully charged.

Using the household power outlet accessories (sold separately, p.381) is recommended.

- When Multi Shot Noise Reduction is set, [Clean manually] cannot be selected.
  - While cleaning the sensor, never do any of the following. If the power is cut off, the shutter will close and the shutter curtains and image sensor may get damaged.
    - · Setting the power switch to <OFF>.
    - · Removing or inserting the battery.
  - The surface of the image sensor is extremely delicate. Clean the sensor with care.
  - Use a plain blower without any brush attached. A brush can scratch the sensor.
  - Do not insert the blower tip inside the camera beyond the lens mount. If the power is turned off, the shutter will close and the shutter curtains or reflex mirror may get damaged.
  - Never use pressurized air or gas to clean the sensor. Pressurized air may damage the sensor, and sprayed gas may freeze on the sensor and scratch it.
  - If the battery level becomes low while cleaning the sensor, the beeper will sound as a warning. Stop cleaning the sensor.
  - If a smudge that cannot be removed with a blower remains, having the sensor cleaned by a Canon Service Center is recommended.

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# 10

# Image Playback

This chapter describes advanced usage of the playback methods described in Chapter 2 "Basic Shooting and Image Playback", how to play back and erase the captured images (still photos/movies), how to view them on a TV screen, and other playback-related functions.

#### Images shot and saved with another device

The camera may not be able to properly display images captured with a different camera, edited with a computer, or that have had their file names changed.

## Searching for Images Quickly

#### Display Multiple Images on One Screen (Index Display)

Search for images quickly with the index display showing 4, 9, 36, or 100 images on one screen.





When you press the < > button, the last image captured will be displayed.



#### Switch to the index display.

- Press the  $< \square \square \bigcirc >$  button.
- The 4-image index display will appear. The selected image is highlighted with an orange frame.
- Pressing the  $< \square \square >$  button will switch the display as follows: 9 images  $\rightarrow$  36 images  $\rightarrow$  100 images.
- Pressing the  $< \mathfrak{R} >$  button will switch the display as follows: 100 images → 36 images  $\rightarrow$  9 images  $\rightarrow$  4 images → 1 image.











#### Select an image.

- Press the  $< \diamond >$  cross keys to move the orange frame to select the image.
- Turning the < > dial will display image(s) on the next or previous screen.
- Press <SET > in the index display to display the selected image in the single-image display.

#### Jumping through Images (Jump Display)

Playback settings Playback settings Cropping Resize Rating Silde show Set image search conditions Image jump w/ G	<ul> <li>Select [Image jump w/ △ ].</li> <li>Under the [▶ 2] tab, select [Image jump w/ △ ], then press &lt; SET &gt;.</li> </ul>
Image jump w/	Select the jump method.
	<ul> <li>Press the &lt; ↔ &gt; cross keys to select the jump method, then press &lt; SET&gt;.</li> <li>☆: Display images one by one</li> <li>☆: Jump 10 images</li> <li>☆: Jump images by the specified number</li> <li>☆: Display by date</li> <li>☆: Display by folder</li> <li>☆: Display movies only</li> <li>☆: Display stills only</li> <li>☆: Display by image rating (p.317) Turn the &lt; △ &gt; dial to select.</li> </ul>

With [Jump images by the specified number], you can turn the <i>dial to select the number of images you want to jump (1 to 100).

- To search images by shooting date, select [Date].
- To search images by folder, select [Folder].
- If the card contains both movies and still photos, select [Movies] or [Stills] to display one or the other.
- If no images match the selected [Rating], you cannot browse through the images with the <2 dial.</li>



Jump method Playback position

#### Browse by jumping.

- Press the < >> button to play back images.
- In the single-image display, turn the < ⅔ > dial.
- > You can browse by the set method.

## ୟ/ସ୍ Magnifying Images

You can magnify a captured image by approx. 1.5x to 10x on the LCD monitor.





Magnified area position





#### Magnify the image.

- Press the < (2) > button during image playback.
- The image will be magnified.
- If you hold down the <<sup>Q</sup> > button, the image will be magnified until it reaches the maximum magnification.
- Press the < ■·Q > button to reduce the magnification. If you hold down the button, the magnification will be reduced to the single-image display.

#### Scroll around the image.

- Press the < > cross keys to scroll the magnified image in the direction pressed.
- To exit magnified view, press the
   > button and the single-image display will reappear.

- Turn the < 2 > dial to view another image while maintaining the magnified view.
  - A movie cannot be magnified.

## b Playing Back with the Touch Screen

The LCD monitor is a touch-sensitive panel that you can touch with your fingers for various playback operations. **First, press the < > button to play back images.** 

#### **Browsing Images**





#### Swipe with one finger.

 With single-image display, touch the LCD monitor with one finger. You can browse to the next or previous image by swiping your finger to the left or right.

Swipe to the left to see the next (newer) image, or swipe to the right to see the previous (older) image.

 With index display, also touch the LCD monitor with one finger. You can browse to the next or previous screen by swiping your finger up or down.

Swipe up to see the next (newer) images or swipe down to see the previous (older) images.

When you select an image, the orange frame will appear. Tap on the image again to display it as a single image.

#### Jumping through Images (Jump Display)



#### Swipe with two fingers.

Touch the LCD monitor with **two fingers**. When you swipe two fingers to the left or right, you can jump through images with the method set in **[Image jump w/** 2] under the **[2**] tab.

Touch operations on the camera's LCD monitor are also possible while playing back images on a TV set connected to your camera (p.333).

#### Reducing Image (Index Display)



#### Magnifying Image



-

#### Pinch two fingers.

Touch the screen with two fingers spread apart, and pinch your fingers together on the screen.

- Each time you pinch your fingers, the single-image display will change to the index display.
- When you select an image, the orange frame will appear. Tap on the image again to display it as a single image.

#### Spread two fingers apart.

Touch the screen with two fingers together, then spread your fingers apart on the screen.

- As you spread your fingers, the image will be magnified.
- The image can be magnified up to approx. 10x.

#### Double-tap.

- When you double-tap on the image with your finger, the recorded image's pixels will be displayed at approx. 100% centered around the point that you tapped on.
- To return to the single-image display, double-tap on the image again.

In the index display, you cannot magnify the image by double-tapping.

- You can scroll around the image by dragging your fingers.
  - To reduce the image, pinch your fingers together on the screen.
  - By tapping on [<sup>1</sup>], you can return to the single-image display.

## Rotating the Image

You can use this feature to rotate the displayed image to the desired orientation.



#### Select [Rotate image].

Under the [▶1] tab, select [Rotate image], then press <SET >.



#### Select an image.

- Press the <◀> <►> keys to select the image to be rotated.
- You can also select an image in the index display (p.310).



#### Rotate the image.

- Each time you press < SET >, the image will rotate clockwise as follows: 90° → 270° → 0°.
- To rotate another image, repeat steps 2 and 3.
- To exit and return to the menu, press the <MENU> button.

-

- If you set [**Ý1:** Auto rotate] to [On □ □] (p.297) before taking vertical shots, you need not rotate the image as described above.
- If the rotated image is not displayed in the rotated orientation during image playback, set [**1**: Auto rotate] to [On D ].
- A movie cannot be rotated.

## MENU Setting Ratings

You can rate images (still photos and movies) with one of the five rating marks: [+]/[-1/[-1/[-+]/[++]/[++]]. This function is called rating.

#### Rating a Single Image

2 3	PLAS
Cropping	
Resize	
Rating	
Slide show	
Set image search conditi	ons
Image jump w/ 🕥	
	MENU *>

\* Rating

Select images Select range All images in folder All images on card

#### Select [Rating].

 Under the [▶2] tab, select [Rating], then press < SET >.

#### Select [Select images].

An image is displayed.



MENU \*

#### Select the image to be rated.

- Press the < ◀> < ►> keys to select an image to be rated, then press <SET>.
- By pressing the < B ·Q > button, you can select images from a three-image display. To return to the single-image display, press the < Q > button.



#### Rate the image.

- Press the < ▲ > < ♥ > keys to select a rating.
- When you append a rating mark for the image, the number beside the set rating will increase by one.
- To rate another image, repeat steps 3 and 4.

#### Specifying the Range

You can specify the range of images to rate all the images in the range at once.





#### Select [Select range].

Select [Select range] in [E2: Rating], then press <SET >.

#### Specify the range of images.

- Select the first image (start point), then press <SET >.
- Select the last image (end point), then press <SET >.
- The [√] icon will appear on the selected images.
- To cancel the selection, repeat this step.
- To return to the previous screen, press the <MENU> button.

#### Confirm the range.

■ Press the < Av ≥ button.</p>

#### Rate the image.

 Turn the < >> dial to select a rating mark, then select [OK].



#### Specifying All Images in a Folder or on a Card

You can rate all the images in a folder or on a card at once.

★ Ratin	g
Select in	mages
Select r	ange
All imag	ges in folder
All imag	ges on card
	MENU D
★Ratin	g
Ch	ange the rating of images in the folder
	Cancel OK

When you select [All images in folder] or [All images on card] in [ 2: Rating], all the images in the folder or on the card will be specified.

Turn the < >> dial to select a rating mark, then select [OK]. To cancel the rating, select the [OFF] rating mark.

A total of up to 999 images of a given rating can be displayed. If there are 1000 or more images with a given rating, [###] will be displayed.

#### Taking Advantage of Ratings

- With [▶2: Image jump w/ △ ], you can display only the images having a specific rating.
- Depending on the computer's operating system, you can see each file's rating as part of the file information display or in the provided, standard image viewer (JPEG images only).

## MENU Filtering Images for Playback

You can search for images by specifying the conditions and display the filtered images. You can also play back in a slide show, protect, or erase all the found images at once.

Playback settings	5	
2 0	3	LANZ
Cropping		
Resize		
Rating		
Slide show		
Set image search co	onditions	
Image jump w/~	(10	
	MENU	5



## Select [Set image search conditions].

 Under the [E2] tab, select [Set image search conditions], then press <SET>.

#### Set the search conditions.

- Press the <▲> <▼> keys to select the condition.
- Press the <◄> <►> keys to set the setting.
- To cancel the condition, press the <INFO> button.
- You can even set all the conditions.
- To cancel all the conditions, press the < ´面 > button.

ltem	Setting
★ Rating	Images with the selected rating mark will be displayed.
⊗Date	Images taken on the selected shooting date will be displayed.
Folder	Images in the selected folder will be displayed.
o⊸Protect	"Protected" or "Unprotected" images on the card will be displayed.
9ू Type of file	Image files of the selected type will be displayed. The settable file types are [



#### Implement the search conditions.

- Press <SET >.
- Read the message that appears and select [OK].



#### Display the found images.

- Press the < > button to play back images.
- Images that match the set conditions will appear in a yellow frame.

If there are no images matching the search conditions, pressing <SET > on the screen in step 2 will not enable [OK]. (Cannot proceed to step 3.)

- Even if [¥2: Auto power off] is set to [4 min.] or less, the auto power off time will be approx. 6 min. when the search conditions screen is displayed.
  - With the found images displayed, you can also perform operations (protect, erase, print order, photobook set-up, rating, and slide show) for all the found images at once.
  - The display of found images will be automatically canceled with the following operations:
    - · Shooting is performed.
    - · Auto power off takes effect.
    - Setting the power switch to <0FF>.
    - · Formatting the SD card.
    - Adding an image (such as when a captured image is saved as a new image after applying a filter effect, resizing, or cropping).
    - · When there are no longer any images matching the search conditions.

## **Q** Quick Control for Playback

During playback, you can press the < 0 > button to set the following: [ $\bigcirc$ : Protect images], [ $\boxdot$ : Rotate image], [ $\bigstar$ : Rating], [ $\bigcirc$ : Creative filters], [ $\boxdot$ : Resize (JPEG images only)], [ $\ddagger$ : Cropping], [ $\oiint$ : AF point display], [ $\oiint$ : Image jump w/2], [ $\bigstar$ : Image search], and [ $\square$ : Send images to smartphone\*].

For movies, only the functions in bold above can be set.

\* Not selectable if [Disable] is set for [Wi-Fi] under [**\u03c41: Wireless** communication settings].





#### Press the < > button.

- During image playback, press the
   button.
- The Quick Control options will appear.

#### Select an item and set it.

- Press the <▲> <▼> keys to select a function.
- The name and setting of the selected function are displayed at the bottom of the screen.
- Press the <◄> <►> keys to set the function.
- For Protect images (p.336) and Rating (p.317), press <INFO> to select multiple images.
- For Creative filters (p.356), Resize (p.359), Cropping (p.361), Image search (p.320), and Send images to smartphone, press <SET > and set the function.
- Image jump w/ A : To specify the number of images for Jump display or Rating (p.317), press <INFO>.
- To cancel, press the <MENU> button.



• Press < SET > to exit Quick Control.

♥ To rotate an image, set [¥1: Auto rotate] to [On □ □]. If [¥1: Auto rotate] is set to [On □] or [Off], the [□ Rotate image] setting will be recorded to the image, but the camera will not rotate the image for display.

For images taken with another camera, the options you can select may be restricted.

## Movies

The three main ways to play back and enjoy movies are as follows:

#### Playback on a TV Set (p.333)



By connecting the camera to a TV set with an HDMI cable, you can play back the captured movies and still photos on the TV set.

- Since hard disk recorders do not have an HDMI IN terminal, the camera cannot be connected to a hard disk recorder with an HDMI cable.
  - Even if the camera is connected to a hard disk recorder with a USB cable, movies and still photos cannot be played back or saved.
  - Movies cannot be played back on devices that do not support MOVformat or MP4-format movie files.

#### Playback on the Camera's LCD Monitor (p.326-332)



You can play back movies on the camera's LCD monitor. You can also edit out the movie's first and last scenes and can play back the still photos or movies on the card in an automatic slide show.

A movie edited with a computer cannot be rewritten to the card and played back with the camera.
#### Playback and Editing with a Computer



The movie files recorded on the card can be transferred to a computer and played back or edited with pre-installed or general-purpose software compatible with the movie's recording format.

To play back or edit a movie with commercially-available software, use software compatible with MOV-format and MP4-format movies. For details on commercially-available software, contact the software manufacturer.

### Maying Back Movies











#### Play back the image.

Press the <> button to display an image.

#### Select a movie.

- Press the <◀> <►> keys to select the movie to be played back.
- In the single-image display, the
   2 2 > icon displayed on the upper left indicates a movie. If the movie is a video snapshot, < 2 2> will be displayed.
- In the index display, perforations at the left edge of a thumbnail indicate a movie. As movies cannot be played back from the index display, press <SET > to switch to the singleimage display.

# In the single-image display, press the <Av 2 > button.

The movie playback panel will appear at the bottom of the screen.

#### Play back the movie.

- Select [▶] (Play), then press <SET >.
- The movie will start playing back.
- You can pause the playback by pressing <SET>.
- You can adjust the sound volume during movie playback by turning the <</li>
   > dial.
- For more details on the playback operations, see the next page.

The camera may not be able to play back movies shot with another camera.

#### **Movie Playback Panel**

Item	Playback Operations
► Play	Pressing <set> toggles between playback and stop.</set>
I► Slow motion	Adjust the slow motion speed by pressing the <<>> keys. The slow motion speed is indicated on the upper right of the screen.
HI First frame	Displays the movie's first frame.
Il Previous frame	Displays the previous frame each time you press <set>. Holding <set> down will rewind the movie.</set></set>
III Next frame	Plays the movie frame-by-frame each time you press <set>. Holding <set> down will fast forward the movie.</set></set>
H Last frame	Displays the movie's last frame.
D Background     music*	Plays back a movie with the selected background music (p.332).
<b>% Edit</b>	Displays the editing screen (p.328).
	Playback position
mm' ss"	Playback time (minutes:seconds)
J Volume	Turn the <
Menu 🕤	Press the <menu> button to return to the single-image display.</menu>

\* When background music is set, the movie sound will not be played back.

- With a fully-charged Battery Pack LP-E17, the continuous playback time at room temperature (23°C/73°F) will be approx. 3 hr.
  - If you connect the camera to a TV set to play a movie (p.333), adjust the sound volume with the TV set. (Turning the <20 > dial will not change the sound volume.)

#### Playback with the Touch Screen



# Tap [▶] at the center of the screen.

- The movie will start playing back.
- To pause the movie while it is playing back, tap on the screen. The movie playback panel will also appear.

### Seliting a Movie's First and Last Scenes

You can edit out the first and last scenes of a movie in approx. 1-sec. increments.



# On the movie playback screen, select [%].

The movie editing panel will be displayed at the bottom of the screen.





#### Specify the part to be edited out.

- Select either [ᡌ□] (Cut beginning) or [□] (Cut end), then press < SET >.
- Press the <◄> <►> keys to see the previous or next frames. Keep holding down the key to fast forward or fast rewind the frames.
- After deciding which part to edit out, press < SET >. The portion highlighted in white on the top is what will remain.



#### Check the edited movie.

- Select [▶] and press < SET > to play back the edited movie.
- To change the edited part, go back to step 2.
- To cancel the editing, press the <MENU> button, then select [OK] on the confirmation dialog.



#### Save the edited movie.

- Select [1]; then press < SET >.
- The save screen will appear.
- To save it as a new movie, select [New file]. To save it and overwrite the original movie file, select [Overwrite], then press <SET >.
- On the confirmation dialog, select [OK], then press <SET > to save the edited movie and return to the movie playback screen.

- Since the editing is performed in approx. 1-sec. increments (position indicated by [X] on the top of the screen), the actual position where the movie is edited may differ from the position you specified.
  - If the card does not have enough free space, [New file] will not be available.
  - When the battery level is low, movie editing is not possible. Use a fullycharged battery.
  - Movies shot with another camera cannot be edited with this camera.

### MENU Slide Show (Auto Playback)

You can automatically play back all the images on the card one after another.



Number of images to be played back

Slide show	
-	34 images
24	All images
	Set up
	Start
	MENU D

#### Select [Slide show].

Under the [▶2] tab, select [Slide show], then press <SET >.

#### Configure [Set up] as desired.

- Press the <▲> <▼> keys to select [Set up], then press <SET>.
- Set the [Display time], [Repeat] (repeated playback), [Transition effect] (effect when changing images), and [Background music] for the still photos.
- See page 332 for the background music selection procedure.
- After completing the settings, press the <MENU> button.

Slide show

[Repeat]

Enable Disable

Slide show	
Display time	11 sec.
	2 sec.
	3 sec.
	5 sec.
	10 sec.
	20 sec.

#### [Display time]



#### Slide show Off Slide in 1 Transition effect Fade 1 Fade 2 Fade 3

[Transition effect]

#### [Background music]





#### Start the slide show.

- Press the <▲> <▼> keys to select [Start], then press <SET>.
- After [Loading image...] is displayed, the slide show will start.

#### Exit the slide show.

 To exit the slide show and return to the setting screen, press the <MENU> button.

- To pause the slide show, press <SET >. During pause, [II] will be displayed on the upper left of the image. Press <SET > again to resume the slide show. You can also pause the slide show by tapping on the screen.
  - During auto playback, you can press the <INFO > button to switch the still photo display format (p.110).
  - During movie playback, you can adjust the sound volume by turning the <mi>dial.
  - During auto playback or pause, you can press the <<>> keys to view another image.
  - During auto playback, auto power off will not take effect.
  - The display time may differ depending on the image.
  - To view the slide show on a TV set, see page 333.
  - While viewing images in filtered playback with [E2: Set image search conditions], you can play them back in a slide show.

#### **Selecting the Background Music**

After you use EOS Utility (EOS software) to copy background music to the card, you can play background music together with the slide show.



- Select [Background music].
  - Set [Background music] to [On], then press < SET >.
- If the card has no background music, you cannot perform step 2.

#### Select the background music.

Press the <▲> < ▼> keys to select the desired background music, then press <SET>. You can also select multiple background music tracks.

#### Play the background music.

- To listen to a sample of the background music, press the <INFO> button.
- Press the <▲> <▼> keys to play another background music track. To stop listening to the background music, press the <INFO> button again.
- Adjust the sound volume by turning the < >> dial.
- To delete a background music track, press the <▲> <▼> keys and select the track, then press the <m
  > button.

At the time of purchase, the camera does not have background music. For the procedure to copy background music to a card, refer to the EOS Utility Instruction Manual.

### Viewing Images on a TV Set

By connecting the camera to a TV set with an HDMI cable, you can play back the captured still photos and movies on the TV set. For the HDMI cable, HDMI Cable HTC-100 (sold separately) is recommended. If the picture does not appear on the TV screen, check if the [**Ý**3: Video system] is correctly set to [For NTSC] or [For PAL] (depending on the video system of your TV set).



# Connect the HDMI cable to the camera.

 With the plug's <▲HDMI MINI> logo facing the front of the camera, insert it into the <HDMI OUT> terminal.



# Connect the HDMI cable to the TV set.

- Connect the HDMI cable to the TV set's HDMI IN port.
- Turn on the TV set and switch the TV set's video input to select the connected port.
- Set the camera's power switch to <0N>.

#### Press the < >> button.

- The image will appear on the TV screen. (Nothing will be displayed on the camera's LCD monitor.)
- The images will automatically be displayed at the optimum resolution matching the connected TV set.
- By pressing the <INFO> button, you can change the display format.
- To play back movies, see page 326.

- Adjust movie sound volume with the TV set. The sound volume cannot be adjusted with the camera.
  - Before connecting or disconnecting the cable between the camera and TV set, turn off the camera and TV set.
  - Depending on the TV set, part of the image displayed may be cut off.
  - Do not connect any other device's output to the camera's <HDMI OUT > terminal. Doing so may cause a malfunction.
  - Certain TV sets may not display the images due to incompatibility.

#### MENU Using HDMI CEC TV Sets

If the TV set connected to the camera with an HDMI cable is compatible with HDMI CEC\*, you can use the TV set's remote control for playback operations.

\* An HDMI-standard function enabling HDMI devices to control each other so that you can control them with one remote control unit.

2 3 PLAX	13
Ctrl over HDMI Disable	1
Enable	Т

#### Select [Ctrl over HDMI].

■ Under the [▶3] tab, select [Ctrl over HDMI], then press < SET >.

#### Select [Enable].

#### Connect the camera to a TV set.

- Use an HDMI cable to connect the camera to the TV set.
- The TV set's input will switch automatically to the HDMI port connected to the camera. If it does not switch automatically, use the TV set's remote control to select the HDMI IN port the cable is connected to.

#### Press the camera's <▶> button.

An image will appear on the TV screen and you can use the TV set's remote control to play back images.

### Still photo playback menu

# ち 🔠 😌 INFO 🧕

#### Movie playback menu



- 🗅 : Return
- 📰 : 9-image index
- 🔄 : Play movie
- Slide show
- INFO : Display shooting info
- In the second

#### Select an image.

 Point the remote control toward the TV set and press the ←/→ button to select an image.

# Press the remote control's Enter button.

- The menu appears and you can perform the playback operations shown on the left.
- Press the remote control's ←/→ button to select the desired option, then press the Enter button.
- If you select [Return] and press the Enter button, the menu will disappear and you can use the ←/→ button to select an image.

 Certain TV sets require you to first enable the HDMI CEC connection. For details, refer to the TV set's Instruction Manual.

 Certain TV sets, even those compatible with HDMI CEC, may not be able to be operated properly. In such a case, set [I] 3: Ctrl over HDMI] to [Disable], and use the camera to control the playback operation.

### Protecting Images

You can protect important images from being accidentally erased by the camera's erase function.

#### MENU Protecting a Single Image

<ol> <li>F.</li> </ol>	PLAN
Protect images	
Rotate image	
Erase images	
Print order	
Photobook Set-up	
Creative filters	
	MENU 3

onProtect images

Select images Select range All images in folder Unprotect all images in folder All images on card Unprotect all images on card

#### Select [Protect images].

• Under the [▶1] tab, select [Protect images], then press < SET >.

### Select [Select images].

An image is displayed.

#### Image protection icon

MENU \*



#### Select the image to be protected.

Press the <◀> <►> keys to select the image to be protected.

#### Protect the image.

- Press < SET > to protect the image. The < -→> icon will appear.
- To cancel the image protection, press
   SET > again. The < > icon will disappear.
- To protect another image, repeat steps 3 and 4.

#### MENU Specifying the Range of Images to be Protected

You can specify the range of images to protect all the images in the range at once.

• Protect images	
Select images	
Select range	
All images in folder	
Unprotect all images in	folder
All images on card	
Unprotect all images or	n card
	MENU *



#### Select [Select range].

Select [Select range] in [
 1:

 Protect images], then press < SET >.

#### Specify the range of images.

- Select the first image (start point), then press <SET >.
- Select the last image (end point), then press < SET >.
- The images will be protected and the <m> icon will appear.
- To cancel the selection, repeat this step.
- To return to the previous screen, press the <MENU> button.

#### MENU Protecting All Images in a Folder or on a Card

You can protect all the images in a folder or on a card at once.

Select images	
Select range	
All images in folder	
Unprotect all images in	n folder
All images on card	
Unprotect all images o	n card
	MENU ***

When you select [All images in folder] or [All images on card] in [**1**: **Protect images**], all the images in the folder or on the card will be protected. To cancel the selection, select [Unprotect all images in folder] or [Unprotect all images on card].

#### If you format the card (p.68), the protected images will also be erased.

- Movies can also be protected.
  - Once an image is protected, it cannot be erased by the camera's erase function. To erase a protected image, you must first cancel the protection.
  - If you erase all the images (p.341), only the protected images will remain. This is convenient when you want to erase all unnecessary images at once.

### 🗑 Erasing Images

You can either select and erase unnecessary images one by one or erase them in one batch. Protected images (p.336) will not be erased.

Once an image is erased, it cannot be recovered. Make sure you no longer need the image before erasing it. To prevent important images from being erased accidentally, protect them. Erasing an image shot in RAW+JPEG will erase both the RAW and JPEG images.

#### **Erasing a Single Image**



#### Play back the image to be erased.

- Press the  $< \overline{m} >$  button.
  - The Erase menu will appear.



#### Erase the image.

 Select [Erase], then press < SET >. The image displayed will be erased.

#### **MENU** Checkmarking $\langle \sqrt{\rangle}$ Images to Be Erased in a Batch

By adding checkmarks  $< \checkmark >$  to the images to be erased, you can erase all those images at once.



#### Select [Erase images].

■ Under the [▶1] tab, select [Erase images], then press <SET >.



#### Select [Select and erase images].

An image is displayed.



∰Erase images		
Erase selec	ted images	

#### Select the images to be erased.

- Press the < ◀> < ►> keys to select the image to be erased, then press <SET>.
- A checkmark <√> will be displayed on the upper left of the screen.
- By pressing the < ■·Q > button, you can select images from a three-image display. To return to the single-image display, press the < Q > button.
- To select another image to be erased, repeat step 3.

#### Erase the images.

- Select [OK], then press < SET >.
- The selected images will be erased.

#### MENU Specifying the Range of Images to be Erased

You can specify the range of images to erase all the images in the range at once.

Ei Erase images Select range All images in folder All images on card	<ul> <li>Select [Select range].</li> <li>Select [Select range] in [▶1: Erase images], then press <set>.</set></li> </ul>
	<ul> <li>Specify the range of images.</li> <li>Select the first image (start point), then press <set>.</set></li> <li>Select the last image (end point), then press <set>.</set></li> <li>The [√] icon will appear on the selected images.</li> <li>To cancel the selection, repeat this step.</li> <li>To return to the previous screen, press the <menu> button.</menu></li> </ul>
Images     3       Erase images     (except Binages)       Cancel     DK	<ul> <li>Erase the images.</li> <li>Press the &lt; m &gt; button.</li> <li>Select [OK] on the confirmation dialog, then press &lt; SET &gt;.</li> <li>► The selected images will be erased.</li> </ul>

#### MENU Erasing All Images in a Folder or on a Card

You can erase all the images in a folder or on a card at once. When [**1**: Erase images] is set to [All images in folder] or [All images on card], all the images in the folder or on the card will be erased.

### Digital Print Order Format (DPOF)

DPOF (Digital Print Order Format) enables you to print images recorded on the card according to your printing instructions such as the image selection, quantity to print, etc. You can print multiple images in one batch or create a print order for a photofinisher.

You can set the print settings such as print type, date imprinting, file number imprinting, etc. The print settings will be applied to all the images specified for printing. (They cannot be set individually for each image.)



You can send images to a Wi-Fi printer supporting PictBridge (Wireless LAN) and print them. For details, refer to the Wi-Fi (Wireless Communication) Function Instruction Manual.



	∎	Stan	dard	Prints one image on one sheet.
Print type	₿	Inde	x	Multiple thumbnail images are printed on one sheet.
	ÐĐ	Both		Prints both the standard and index prints.
Date	C	)n	[ <b>On</b> ] imprints the recorded date of the captured image.	
Date	C	Off		
File number	C	Dn	[ <b>On</b> ] imprints the file number.	
	C	Dff	[ <b>UI</b> ] inp	

#### Exit the setting.

- Press the <MENU> button.
- The print order screen will reappear.
- Next, select [Sel.Image] or [Multiple] to order the images to be printed.
- RAW images or movies cannot be specified for printing.
  - Even if [Date] and [File No.] are set to [On], the date or file number may not be imprinted depending on the print type setting and printer model.
  - With [Index] prints, the [Date] and [File No.] cannot both be set to [On] at the same time.
  - When printing with DPOF, use the card for which print order specifications are set. You cannot print in the specified print order if you extract just the images from the card for printing.
  - Certain DPOF-compliant printers and photofinishers may not be able to print the images as you specified. Refer to the printer's instruction manual before printing, or check with your photofinisher about compatibility when ordering prints.
  - While installing images into this camera, do not specify a new print order for images that had a print order set by a different camera. All the print orders may be overwritten inadvertently. Also, the print order may not be possible, depending on the image type.

#### MENU Specifying Images for Printing

#### Selecting Images





Total images selected



Select and specify the images one by one.

By pressing the  $< \Box \cdot Q >$  button, you can select images from a three-image display. To return to the single-image display, press the < Q > button. Press the < MENU > button to save the print order to the card.

#### [Standard] [Both]

Press the  $< \blacktriangle > < V >$  keys to set the number of copies to be printed for the displayed image.

#### [Index]

Press  $\langle SET \rangle$  to add a checkmark to the box [ $\checkmark$ ]. The image will be included in the index print.

## Selecting Multiple Images Select Range



#### Select [Select range].

 Select [Select range] in [Multiple], then press < SET >.

#### Specify the range of images.

- Select the first image (start point), then press < SET >.
- Select the last image (end point), then press < SET >.
- The [√] icon will appear on the selected images. One copy of all the specified images will be set for printing.
- To cancel the selection, repeat this step.
- To return to the previous screen, press the <MENU> button.

#### All Images in a Folder

Select [Mark all in folder] and select the folder. A print order for one copy of all the images in the folder will be specified. If you select [Clear all in folder] and select the folder, the print order for all the images in the folder will be canceled.

#### All Images on a Card

If you select [Mark all on card], one copy of all the images on the card will be specified for printing. If you select [Clear all on card], the print order will be cleared for all the images on the card.

- Note that RAW images or movies will not be specified for printing even if you specify all images at once with [Multiple].
  - When using a PictBridge-compatible printer, do not specify more than 400 images for one print order. If you specify more than this, the images may not all be printed.

### Specifying Images for a Photobook

You can specify up to 998 images to be printed in a photobook. When you use EOS Utility (EOS software) to transfer images to a computer, the specified images for the photobook will be copied to a dedicated folder. This function is useful for ordering photobooks online.

#### MEND Specifying One Image at a Time

MENU \*



Select images Multiple

#### Select [Photobook Set-up].

Under the [**1**] tab, select [**Photobook Set-up**], then press <SET>.

#### Select [Select images].

An image is displayed.



#### Select the image to be specified.

- Press the <◄> <►> keys to select the image to be specified, then press <SET>.
- Repeat this step to select another image. The number of images that have been specified will be displayed on the upper left of the screen.
- To display the three-image display, press the < ⊡··Q > button. To return to the single-image display, press the < · Q > button.
- To cancel the image specification, press < SET > again.

#### **MENU** Specifying the Range

You can specify the range of images to select all the images in the range at once for the photobook.

Clear all in folder All images on card	Select range	
All images on card	All images in folder	
	Clear all in folder	
Close all on card	All images on card	
ciedr all off card	Clear all on card	
		MENU *>



#### Select [Select range].

In [Multiple] under [ 1: Photobook Set-up], select [Select range], then press < SET >.

#### Specify the range of images.

- Select the first image (start point), then press < SET >.
- Select the last image (end point), then press < SET >.
- The [√] icon will appear on the selected images.
- To cancel the selection, repeat this step.
- To return to the previous screen, press the <MENU> button.

#### MENU Specifying All Images in a Folder or on a Card

You can also specify all the images in a folder or on a card at once for the photobook.

Photobook Set-up	
Select range	
All images in folder	
Clear all in folder	
All images on card	
Clear all on card	
	MENU 5

When [Multiple] under [ > 1: Photobook Set-up] is set to [All images in folder] or [All images on card], all the images in the folder or on the card will be specified for the photobook. To clear your selections, select [Clear all in folder] or [Clear all on card].

RAW images or movies cannot be specified.

 Do not specify images already specified for a photobook in another camera for another photobook with this camera. All the photobook settings may be overwritten inadvertently.

### INFO: Shooting Information Display

The information displayed varies depending on the shooting mode and settings.



#### AF Point Display

When [**B**3: **AF point disp.**] is set to [**Enable**], the AF point that achieved focus will be displayed in red. If automatic AF point selection is set, multiple AF points may be displayed at the same time.

- If the image was taken by another camera, certain shooting information may not be displayed.
  - It may not be possible to play back images taken with this camera on other cameras.

### Shooting information display Detailed information



- \* When you shoot in the AW + **L** image-recording quality, the AW file size will be displayed.
- \* During flash photography without flash exposure compensation, < 2 > will be displayed.
- \* < Marchine > will be displayed for images shot with Multi Shot Noise Reduction.
- \* < >> will be displayed for images shot with the Creative filter function and for images edited (resized or Creative filter applied) and then saved.
- \*  $< \square >$  and  $< \square >$  will be displayed for images cropped and then saved.

#### Lens / Histogram information



#### White balance information



Picture Style information 2



 Lens aberration correction information



Picture Style information 1



Color space / Noise reduction information



If you used GPS Receiver GP-E2 or smartphone to record GPS information for the image, the "GPS information" screen will also appear.

#### **Movie Example**



- \* If manual exposure is used, the shutter speed, aperture, and ISO speed (when set manually) will be displayed.
- \* The < > icon will be displayed for video snapshots.

During movie playback, "\*, \*" will be displayed for [Fineness] and [Threshold] of [Picture Style]'s [Sharpness].

#### Highlight Alert

When the shooting information is displayed, overexposed and clipped highlights will blink. To obtain a better result for the blinking areas where you want the gradation to be faithfully reproduced, set the exposure compensation to a negative amount and shoot again.

#### Histogram

The brightness histogram shows the exposure level distribution and overall brightness. The RGB histogram is for checking the color saturation and gradation. The display can be switched with [**1**]: **3: Histogram disp**].

#### [Brightness] Display

This histogram is a graph showing the distribution of the image's brightness level. The horizontal axis indicates the brightness level (darker on the left and brighter on the right), while the vertical axis indicates how many pixels exist for each brightness level. The more pixels there are toward the left, the darker the image. The more pixels there are toward the right, the brighter the image. If there are too many pixels on the left, the shadow detail will be lost. If there are too many pixels on the right, the highlight detail will be lost. The gradation in-between will be reproduced. By checking the image and its brightness histogram,

#### Sample Histograms



Dark image



Normal brightness



Bright image

you can see the exposure level inclination and the overall gradation.

#### [RGB] Display

This histogram is a graph showing the distribution of each primary color's brightness level in the image (RGB or red, green, and blue). The horizontal axis indicates the color's brightness level (darker on the left and brighter on the right), while the vertical axis indicates how many pixels exist for each color brightness level. The more pixels there are toward the left, the darker and less prominent the color. The more pixels there are too many pixels on the left, the brighter and denser the color. If there are too many pixels on the left, the respective color information will be lacking. If there are too many pixels on the right, the color will be too saturated with no gradation. By checking the image's RGB histogram, you can see the color's saturation and gradation condition, as well as white balance inclination.

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# Post-Processing Images

After taking a picture, you can apply a filter effect, resize the JPEG image (reduce the pixel count), or crop the JPEG image.

- The camera may not be able to process images taken with another camera.
  - Post-processing of images as described in this chapter cannot be performed when the camera is connected to a computer with an interface cable.

### Applying Creative Filter Effects

You can apply the following Creative filters to an image and save it as a new image: Grainy B/W, Soft focus, Fish-eye effect, Art bold effect, Water painting effect, Toy camera effect, and Miniature effect.

2. 1	PLAN3
Protect images	
Rotate image	
Erase images	
Print order	
Photobook Set-up	
Creative filters	
	MENU *>







#### Select [Creative filters].

- Under the [**1**] tab, select [**Creative filters**], then press <**SET** >.
- An image will be displayed.

#### Select an image.

- Select the image you want to apply a filter to.
- By pressing the < < < > button, you can switch to the index display and select an image.

#### Select a filter effect.

- When you press <SET>, the types of Creative filters will be displayed (p.357).
- Select a filter, then press < SET >.
- The image will be displayed with the effects of the filter applied.

#### Adjust the filter effect.

- Adjust the filter effect, then press <SET>.
- For the Miniature effect, press the
   ▲> < ▼> keys to move the white frame to where you want the image to look sharp, then press <SET>.



#### Save the image.

- Select [OK] to save the image.
- Check the destination folder and image file number, then select [OK].
- To apply a filter to another image, repeat steps 2 to 5.
- When shooting XXX + 4 L or XXX image, the Creative filter will be applied to the XXX image and the image will be saved as a JPEG image.
  - If an aspect ratio was set for a I III image and the filter effect is applied to it, the image will be saved in the aspect ratio that is set.
  - Dust Delete Data (p.304) will not be appended to images with Fish-eye
    effect applied.

#### **Creative Filter Characteristics**

#### Grainy B/W

Creates a grainy black-and-white photo. You can change the blackand-white effect by adjusting the contrast.

#### Soft focus

Gives the image a soft look. You can change the degree of softness by adjusting the blur.

#### Fish-eye effect

Gives the effect of a fish-eye lens. The image will have a barrel-type distortion.

Depending on the level of this filter effect, the area trimmed along the periphery of the image changes. Also, since this filter effect will magnify the image center, the apparent resolution at the center may degrade depending on the number of recorded pixels. Set the filter effect in step 4 while checking the resulting image.

#### 🔹 🦿 Art bold effect

Makes the photo look like an oil painting and the subject look more three-dimensional. You can adjust the contrast and saturation. Note that subjects such as the sky or white walls may not be rendered with a smooth gradation and may look irregular or have significant noise.

#### Water painting effect

Makes the photo look like a watercolor painting with soft colors. You can control the color density by adjusting the filter effect. Note that night scenes or dark scenes may not be rendered with a smooth gradation and may look irregular or have significant noise.

#### • 💿 Toy camera effect

Darkens the photo's corners and applies a unique color tone that makes it look as if it was shot by a toy camera. You can change the color cast by adjusting the color tone.

#### Ainiature effect

Creates a diorama effect. You can change where the image looks sharp. In step 4, if you press the <INFO> button (or tap on [ $[\frac{1}{12}]$ ) on the screen), you can switch between the white frame's vertical and horizontal orientations.

### 🖃 Resizing JPEG Images

You can resize a JPEG image to make the pixel count lower and save it as a new image. Resizing an image is possible only with JPEG L, M, and S1 images. JPEG S2 and RAW images cannot be resized.

Playback settings	
1 2 3	FLAY2
Cropping	
Resize	
Rating	
Slide show	
Set image search condition	15
Image jump w/n	





#### Target sizes



#### Select [Resize].

- Under the [▶2] tab, select [**Resize**], then press < SET >.
- An image will be displayed.

#### Select an image.

- Select the image you want to resize.
- By pressing the < Q > button, you can switch to the index display and select an image.

#### Select the desired image size.

- Press < SET > to display the image sizes.
- Select the desired image size, then press < SET >.

#### Save the image.

- Select [OK] to save the resized image.
- Check the destination folder and image file number, then select [OK].
- To resize another image, repeat steps 2 to 4.

#### **Resize Options by Original Image Quality**

Original Image	Available Resize Settings		
Quality	М	S1	S2
L	0	0	0
М		0	0
S1			0

#### **Image Sizes**

The image sizes by aspect ratios are shown in the table below.

Image	Aspect Ratio and Pixel Count (Approx.)			
Quality	3:2	4:3	16:9	1:1
м	3984x2656	3552x2664	3984x2240*	2656x2656
	(10.6 megapixels)	(9.5 megapixels)	(8.9 megapixels)	(7.1 megapixels)
S1	2976x1984	2656x1992	2976x1680*	1984x1984
	(5.9 megapixels)	(5.3 megapixels)	(5.0 megapixels)	(3.9 megapixels)
S2	2400x1600	2112x1600*	2400x1344*	1600x1600
	(3.8 megapixels)	(3.4 megapixels)	(3.2 megapixels)	(2.6 megapixels)

- The actual aspect ratio of images in the sizes marked with an asterisk will differ from the aspect ratio indicated.
  - The image may be cropped slightly depending on the resizing conditions.
# **口 Cropping JPEG Images**

You can crop a captured JPEG image and save it as another image. **Images shot in RAW cannot be cropped.** JPEG images shot with ₩ + **4** L can be cropped.

Playback settings	<u>6</u>	
2 0		PLA12
Cropping		
Resize		
Rating		
Slide show		
Set image search co	nditions	
Image jump w/~	(10	
	1	MENU 3





#### Select [Cropping].

- Under the [**2**] tab, select [**Cropping**], then press <SET>.
- An image will be displayed.

#### Select an image.

- Select the image you want to crop.
- By pressing the < ■·Q > button, you can switch to the index display and select an image.

# Set the cropping frame size, aspect ratio, position, and tilt correction.

- Press < SET > to display the cropping frame.
- The image area within the cropping frame will be cropped.

#### Changing the Cropping Frame Size

- Press the <<sup>⊕</sup> > or < ■<sup>⊕</sup> > button.
- The cropping frame size will change. The smaller the cropping frame, the more magnified the cropped image will look.

#### **Changing the Cropping Frame Aspect Ratio**

- Turn the < <sup>\*</sup> > dial.
- Cropping frame aspect ratio will change to [3:2], [16:9], [4:3], or [1:1].
- The aspect ratio will change as you turn the < 2 > dial. This also enables you to crop the image shot in horizontal orientation to look as if it was shot in vertical orientation.

#### Moving the Cropping Frame

- Press the <▲> <▼> or <◀> <►> keys.
- The cropping frame will move up, down, left, or right.
- You can also touch the cropping frame and drag it to the desired position.

#### **Correcting the Tilt**

- Press the <INFO > button.
- Check the tilt with the displayed grid, then turn the < 2 > dial to correct the tilt. You can correct the tilt up to ±10° in 0.1° increments.
- If you tap on [←] or [→] on the upper left of the screen, the tilt will be corrected in 0.5° increments.
- Press < SET >.





# Display the cropped image in the full view.

- Press the < Av ≥ button.</p>
- > You can see the cropped image.
- To return to the original display, press the < Av > button again.

#### Save the cropped image.

- Press < SET >, then select [OK] to save the cropped image.
- Check the destination folder and image file number, then select [OK].
- To crop another image, repeat steps 2 to 5.
- The position and size of the cropping frame may change depending on the angle set for tilt correction.
  - Once a cropped image is saved, it cannot be cropped again. In addition, you cannot resize it or apply a Creative filter.
  - AF point display information (p.349) and Dust Delete Data (p.304) will not be appended to the cropped images.

# Customizing the Camera

You can make fine adjustments to various camera functions to suit your picture-taking preferences with Custom Functions. Custom Functions can be set and work only in Creative Zone modes.



# MENU Setting Custom Functions \*



#### Custom Function number

	C.Fn I :Exposure Exposure level increments	
3	0:1/3-stop	
	1:1/2-stop	

C.Fn I :Exposure Exposure level increments	1
0:1/3-stop	
1:1/2-stop	
	SET OK
C.Fn I :Exposure Exposure level increments	1,
0:1/3-stop	

#### Select [Custom Functions(C.Fn)].

 Under the [¥4] tab, select [Custom Functions(C.Fn)], then press <SET>.

# Select the Custom Function number.

 Press the < <> > keys to select the Custom Function number, then press <SET >.

#### Change the setting as desired.

- Press the <▲> <▼> keys to select the desired setting (number), then press <SET>.
- Repeat steps 2 to 3 if you want to set other Custom Functions.
- At the bottom of the screen, the current Custom Function settings are indicated below the respective function numbers.

#### Exit the setting.

- Press the <MENU> button.
- The screen in step 1 will reappear.

#### **Clearing All Custom Functions**

MENU S

Under [**¥4:** Clear settings], select [Clear all Custom Func. (C.Fn)] to clear all the Custom Function settings (p.298).

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#### **Custom Functions**

C.F	n I: Exposure		LV Shooting	V Movie Shooting
1	Exposure level increments		0	0
2	ISO expansion	p.366	0	0
3	Exposure compensation auto cancel		0	0

#### C.Fn II: Image

4	Highlight tone priority	p.367	0	0	
---	-------------------------	-------	---	---	--

#### C.Fn III: Autofocus/Drive

5	AF-assist beam firing	p.368	0*	
6	Mirror lockup	p.369		

\* When an EX-series Speedlite (sold separately) equipped with an LED light is used.

#### C.Fn IV: Operation/Others

7	Warnings 🌗 in viewfinder	p.369		
8	Shutter/AE lock button	p.370	0	0
9	Assign SET button	p.371	O (Except 3)	O (4 and 5 only*)
10	LCD display when power ON			
11	Retract lens on power off	p.372	0	0

\* Setting 4 does not function during movie shooting.

\* 5 is settable only for manual exposure shooting.

# MENU Custom Function Setting Items \*

Custom Functions are organized into four groups based on the function type: C.Fn I: Exposure, C.Fn II: Image, C.Fn III: Autofocus/Drive, C.Fn IV: Operation/Others.

#### C.Fn I: Exposure

#### C.Fn-1 Exposure level increments

#### 0: 1/3-stop

#### 1: 1/2-stop

Sets 1/2-stop increments for the shutter speed, aperture, exposure compensation, AEB, flash exposure compensation, etc. This is effective when you prefer to control the exposure in less fine increments than 1/3-stop increments.

With setting 1, the exposure level will be displayed as shown below.

ES 45 201 m<sup>2</sup> 150 400 B.●

#### C.Fn-2 ISO expansion

- 0: Off
- 1: On

When you set the ISO speed, you can set "H" (equivalent to ISO 51200) for still photos and "H" (equivalent to ISO 25600) for movies. Note that if [C.Fn-4: Highlight tone priority] is set to [1:Enable], "H" cannot be selected.

#### C.Fn-3 Exposure compensation auto cancel

#### 0: Enable

When you set the power switch to <OFF>, the exposure compensation setting will be canceled.

#### 1: Disable

The exposure compensation setting will remain in effect even if you set the power switch to < OFF >.

#### C.Fn II: Image

#### C.Fn-4 Highlight tone priority

#### 0: Disable

1: Enable

Highlight details are improved. The dynamic range is expanded from the standard 18% gray to bright highlights. The gradation between the grays and highlights becomes smoother.

- With setting 1, the Auto Lighting Optimizer (p.149) is automatically set to [Disable] and the setting cannot be changed.
  - With setting 1, noise (grainy image, banding, etc.) may become slightly more noticeable than with setting 0.
- With setting 1, the settable ISO speed range will be ISO 200 ISO 25600 (up to ISO 12800 for movies).

Also, the <D+> icon will be displayed in the viewfinder and on the LCD monitor to indicate that highlight tone priority is enabled.

#### C.Fn III: Autofocus/Drive

#### C.Fn-5 AF-assist beam firing

Enables or disables the built-in flash's AF-assist beam or the EOSdedicated external Speedlite's AF-assist beam.

#### 0: Enable

The AF-assist beam will be emitted when necessary.

#### 1: Disable

The AF-assist beam will not be emitted. This prevents the AFassist beam from disturbing others.

#### 2: Enable external flash only

If an external Speedlite is attached, it will emit the AF-assist beam when necessary. The camera's built-in flash will not fire the AF-assist beam.

#### 3: IR AF assist beam only

When an external Speedlite is attached, only the infrared AF-assist beam will be emitted. Set this when you do not want the camera to fire the AF-assist beam as a burst of small flashes.

With an EX-series Speedlite equipped with an LED light, the LED light will not automatically turn on as the AF-assist beam.

If an external Speedlite's [AF-assist beam firing] Custom Function is set to [1:Disable], this function's setting will be overridden and the AF-assist beam will not be emitted.

#### C.Fn-6 Mirror lockup

#### 0: Disable

#### 1: Enable

You can prevent the camera vibration blur due to the mechanical vibrations (mirror shock) inside the camera during shooting with super telephoto lenses or shooting close-ups (macro photography). See page 179 for the mirror lockup procedure.

#### C.Fn IV: Operation/Others

#### C.Fn-7 Warnings () in viewfinder

When any of the following functions are set, the <!> icon can be displayed on the viewfinder's bottom left (p.33). The <!> icon will also appear on the Quick Control screen (p.58).

Select the function for which you want the warning icon to appear, press  $\langle SET \rangle$  to add a checkmark [ $\checkmark$ ], then select [**OK**].

#### When monochrome 🖾 is set:

If the Picture Style is set to [Monochrome] (p.136), the warning icon will appear.

#### When WB is corrected:

If white balance correction is set (p.147), the warning icon will appear.

#### When 🕮 is set:

## If [D4: High ISO speed NR] is set to [Multi Shot Noise

Reduction] (p.150), the warning icon will appear.

#### When spot meter. is set:

If **[1**3: **Metering mode**] is set to **[Spot metering]** (p.172), the warning icon will appear.

When [**D**: Shooting screen] is set to [Guided], this Custom Function does not function. (Settings do not take effect.)

#### C.Fn-8 Shutter/AE lock button

#### 0: AF/AE lock

#### 1: AE lock/AF

This is convenient when you want to focus and meter separately. Press the  $< \bigstar$  > button to autofocus, and press the shutter button halfway to apply AE lock.

#### 2: AF/AF lock, no AE lock

During AI Servo AF (or Servo AF for Live View shooting), you can press the  $< \bigstar >$  button to pause the AF operation momentarily. This prevents the AF from being thrown off by any obstacle passing between the camera and subject. The exposure is set at the moment the picture is taken.

#### 3: AE/AF, no AE lock

This is useful for subjects that keep moving and stopping repeatedly. During AI Servo AF (or Servo AF for Live View shooting), you can press the  $< \frac{1}{2}$  > button to start or stop the AI Servo AF operation. The exposure is set at the moment the picture is taken. Thus, you can set your camera to always maintain the optimum focusing and exposure and wait for the decisive moment.

#### During movie shooting

- With setting 1 or 3, press the < ★ > button for One-Shot AF.
- With setting 2, press the shutter button halfway for One-Shot AF.

#### C.Fn-9 Assign SET button

You can assign a frequently-used function to <SET>. When the camera is ready to shoot, pressing the <SET> button will display the respective function setting screen.

- 0: Quick Control screen
- Image quality The image quality setting screen will appear.
   Flash exposure comp.
  - The flash exposure compensation setting screen will appear.
- 3: LCD monitor On/Off You can turn on or off the LCD monitor.
- 4: Menu display

The menu screen will appear.

- 5: Expo comp (hold btn, turn ♣) You can set the exposure compensation by turning the < ♣ > dial while holding down < SET >. Useful when you want to set exposure compensation in < M > manual exposure with ISO Auto set.
- 6: Flash function settings The built-in flash or external flash function setting screen will appear.
- 7: Depth-of-field preview

The lens will stop down to the set aperture, and you can see the range of acceptable focus (depth of field) in the viewfinder or in the Live View image.

#### C.Fn-10 LCD display when power ON

0: Display on

When you turn on the power, the Quick Control screen will appear (p.58).

#### 1: Previous display status

When you turn on the power, the camera will start with the LCD monitor display in the state it was in when the power was last turned off. Therefore, if you turn off the camera when the LCD monitor is off, nothing will be displayed when you turn on the camera again. This helps to save battery power. The menu operations and image playback will be available as usual.

#### C.Fn-11 Retract lens on power off

This is the setting for the lens retraction mechanism when a geardriven STM lens (such as EF40mm f/2.8 STM) is attached to the camera. You can set it to retract the extended lens automatically when the camera's power switch is set to <0FF>.

- 0: Enable
- 1: Disable
- igvee With auto power off, the lens will not retract regardless of the setting.
  - Before detaching the lens, make sure that it is retracted.

With setting 0, this function takes effect regardless of the lens's focus mode switch setting (AF or MF).

## MENU Registering My Menu\*

Under My Menu tab, you can register menu items and Custom Functions whose settings you change frequently. You can also name the registered menu tabs, and press the <MENU> button to display the My Menu tab first.

When [□ : Menu display] is set to [Guided], the [★] tab will not be displayed. Change the [Menu display] to [Standard] (p.54).

#### Creating and Adding My Menu Tab



#### Select [Add My Menu tab].

Under the [★] tab, select [Add My Menu tab], then press <SET>.



#### Select [OK].

- The [MY MENU1] tab is created.
- You can create up to five My Menu tabs by repeating steps 1 and 2.

#### Registering Menu Items under the My Menu Tab(s)



#### Select [Configure: MY MENU\*].

 Press the < ◀> < ►> keys to select [Configure: MY MENU\*] (tab for registering menu items), then press <SET>.



Release shutter without card AF operation

Lens electronic MF

MENU 55

#### Select [Select items to register].

#### Register the desired items.

- Select the desired item, then press <SET>.
- Select [OK] on the confirmation dialog.
- You can register up to six items.
- To return to the screen in step 2, press the <MENU> button.

#### My Menu Tab Settings

SET ON

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

You can sort and delete items under the menu tab, and rename or delete the menu tab.

#### Sort registered items

You can change the order of the registered items in My Menu. Select [Sort registered items] and select the item whose order you want to change. Then press  $\langle SET \rangle$ . With [ $\diamondsuit$ ] displayed, press the  $\langle \blacktriangle \rangle$  $\langle \nabla \rangle$  keys to change the order, then press  $\langle SET \rangle$ .

#### Delete selected items / Delete all items on tab

You can delete any of the registered items. [Delete selected items] deletes one item at a time, and [Delete all items on tab] deletes all the registered items under the tab.

#### Delete tab

You can delete the My Menu tab currently displayed. Select [**Delete** tab] to delete the [**MY MENU**\*] tab.

#### Rename tab

You can rename the My Menu tab from [MY MENU\*].



Select [Rename tab].

#### Enter text.

- Press the < m > button to delete any unnecessary characters.
- Press the < ↔ > cross keys or turn the
   2 dial to move the □ and select the desired character. Then press
   SET > to enter it.
- By selecting [Aa≠1@], you can change the input mode.
- You can enter up to 16 characters.
- To cancel the text entry, press the <INFO> button, then select [OK].

#### Exit the setting.

- After entering the text, press the <MENU> button, then select [OK].
- The set name is saved.



#### Deleting All My Menu Tabs / Deleting All Items



You can delete all the created My Menu tabs or My Menu items registered under them.

#### Delete all My Menu tabs

You can delete all My Menu tabs you created. When you select [Delete all My Menu tabs], all the tabs from [MY MENU1] to [MY MENU5] will be deleted and the [★] tab will revert to its default.

#### Delete all items

You can delete all the items registered under the [MY MENU1] to [MY MENU5] tabs. The tab(s) will remain. When [Delete all items] is selected, all the items registered under all the created tabs will be deleted.

If you perform [Delete tab] or [Delete all My Menu tabs], tab names renamed with [Rename tab] will also be deleted.

#### **Menu Display Settings**



You can select [Menu display] to set the menu screen that is to appear first when you press the <MENU> button.

- Normal display Displays the last displayed menu screen.
- **Display from My Menu tab** Displays with the [★] tab selected.
- Display only My Menu tab
   Only the [★] tab is displayed. (The □, ▶, ♀, and □ tabs will not be displayed.)


# 

# Reference

This chapter provides reference information for camera features, system accessories, etc.



Certification Logo

Select [ 4: Certification Logo Display] and press < SET > to display some of the logos of the camera's certifications. Other certification logos can be found in this Instruction Manual, on the camera body, and on the camera's package.

## **MENU** Checking the Battery Information

You can check the conditions of the battery you are using on the LCD monitor.

Function settings 2 3 4 500 Video system For NTSC Touch control Standard Switch 182/K-button Disable Beep Enable Battery info. Sensor cleaning	<ul> <li>Select [Battery info.].</li> <li>Under the [¥3] tab, select [Batter info.], then press &lt; SET &gt;.</li> <li>The battery information screen wi appear.</li> </ul>
Battery position Eattery info. D.P.E17 Remaining cap.	Battery model or household power source being used. The battery level (p.43) is displayed.
Recharge performance Maximum	Battery's recharge performance level is displayed in three levels.
	■ □ (Green) : Battery's recharge performance is slightly degraded. ■ □ □ (Red) : Purchasing a new battery is recommend

Using a genuine Canon Battery Pack LP-E17 is recommended. If you use batteries that are not genuine Canon products, the camera's full performance may not be attained or malfunction may result.

If a battery communication error message is displayed, follow the instructions in the message.

# Using a Household Power Outlet

You can power the camera with a household power outlet by using the DC Coupler DR-E18 and AC Adapter AC-E6N (each sold separately).







#### Connect the DC coupler's plug.

Connect the DC coupler's plug to the AC Adapter's socket.

#### Connect the power cord.

- Connect the power cord as shown in the illustration.
- After using the camera, unplug the power plug from the power outlet.

#### Insert the DC coupler.

• Open the cover and insert the DC coupler securely until it locks.



#### Push in the DC cord.

- Open the DC cord hole cover and install the cord as shown in the illustration.
- Close the cover.

Do not connect or disconnect the power cord when the camera's power switch is set to <0N>.

## Remote Control Shooting

#### Wireless Remote Control BR-E1 (Sold Separately)

Wireless Remote Control BR-E1 (sold separately) compatible with Bluetooth<sup>®</sup> low energy technology enables remote control shooting up to approx. 5 meters/16.4 feet from the camera.

To use the BR-E1, you must first pair the camera and remote controller so they recognize each other.

#### Pairing

Wi-Fi settings Bluetooth function

Nickname **Clear settings** 

**Bluetooth function Bluetooth** function



Select [Wireles:	s communication
settings].	

- Under the [ 1] tab, select [Wireless communication settings], then press < SET >.
- Select [Bluetooth function].

## Wireless communication settings Disable

MENU TO

#### Select [Bluetooth function].

#### Select [Remote].

If a message "Register a nickname to identify the camera." appears, press <SET > and register a nickname. For the procedure to register a nickname, refer to page 13 of the Wi-Fi (Wireless Communication) Function Instruction Manual



Disable

emote

#### Select [Pairing].

- Select [Pairing], then press < SET >.
- Press and hold the <W> button and
   <T> button simultaneously for 3 sec.
- Pairing starts. After the pairing is complete, the BR-E1 is registered to the camera.

#### Enable remote control shooting.

Set [
 **1: Drive mode**] to [
 [
 **3**].

Set [ **1** 5: Remote control] to [Enable].

Even when the camera's power is turned off by its auto power off function, the camera battery will still be consumed with the Bluetooth connection established.

- When you do not use Bluetooth function, setting it to [Disable] in step 4 is recommended. To use the remote controller again, just select [Remote] again.
  - If remote control shooting is enabled, the auto power off will take effect in approx. 2 min. even if [**Ý**2: Auto power off] is set to [1 min.].
  - For the Bluetooth connection indicator, refer to the Wi-Fi (Wireless Communication) Function Instruction Manual.
  - For operation of BR-E1, refer to the BR-E1 Instruction Manual.





#### Movie Shooting

-

Shooting setting	5	
2 3 4 S		5H0075
Video snapshot	Disable	
Time-lapse movie	Disable	
Remote control	Enable	-

#### **Cancelling the Paring**

To pair with another BR-E1, clear the connection information of the remote controller currently connected. You can check the connection status of the camera and remote controller on the [Check/clear connection info] screen in step 4.



#### Remote Switch RS-60E3 (Sold Separately)

The camera is compatible with the Remote Switch RS-60E3 that comes with an approx. 60 cm/2.0 ft cord. When connected to the camera's remote control terminal, it can be pressed halfway and completely, just like the shutter button.







#### Using the Eyepiece Cover

When you take a picture without looking through the viewfinder, such as when you use the self-timer, bulb exposure, or a remote switch, stray light entering the viewfinder may cause the picture to look dark. To prevent this, use the evepiece cover (p.35) attached to the camera strap. Note that attaching the eyepiece cover is not necessary in Live View shooting or movie shooting.





Detach the eyecup.

Push the bottom of the evecup to detach it.



#### Attach the eyepiece cover.

- Slide the eyepiece cover down into the evepiece groove to attach it.
- After you finish shooting, detach the eyepiece cover and attach the evecup by sliding it down into the eyepiece groove.

# 🛜 Using Eye-Fi Cards

With a commercially-available Eye-Fi card already set up, you can automatically transfer captured images to a computer or upload them to an online service via a wireless LAN.

The image transfer is a function of the Eye-Fi card. For instructions on how to set up and use the Eye-Fi card or to troubleshoot any image transfer problems, refer to the Eye-Fi card's instruction manual or contact the card manufacturer.

The camera is not guaranteed to support Eye-Fi card functions (including wireless transfer). In case of a problem with an Eye-Fi card, please check with the card manufacturer. Also note that approval is required to use Eye-Fi cards in many countries or regions. Without approval, use of the card is not permitted. If it is unclear whether the card has been approved for use in your area, please check with the card manufacturer.

Function setting	35
2 3 4	(ET UP)
Select folder	
File numbering	Continuous
Auto rotate	On C
Format card	
Eye-Fi settings	
Wireless communi	cation settings

Eye-Fi settings	
Eye-Fi trans.	Disable
	) Enable

Eye-Fi trans.	Enable	
---------------	--------	--

#### Insert an Eye-Fi card (p.38).

#### Select [Eye-Fi settings].

- Under the [¥1] tab, select [Eye-Fi settings], then press < SET >.
- This menu is displayed only when an Eye-Fi card is inserted into the camera.

#### Enable Eye-Fi transmission.

- Select [Eye-Fi trans.], then press <SET>.
- Select [Enable], then press < SET >.
- If you set [Disable], there will be no automatic transmission even with the Eye-Fi card inserted (transmission status icon of).

#### Display the connection information.

Select [Connection info.], then press <SET >.

Connection int	ło.
Access point S	SID:
ABCDEFG12345	67890
Connection:	Connected
MAC address:	0-0-0-0-0-0
Eye-Fi firmwar	e Ver.:
SHOW NO.1	2008 23:26:27
	MENU 5



Transmission status icon

(Gray) Not connected
 (Blinking) Connecting...
 (Illuminated) Connected
 (1) Transferring...

#### Check the [Access point SSID:].

- Check that an access point is displayed for [Access point SSID:].
- You can also check the Eye-Fi card's MAC address and firmware version.
- Press the <MENU> button to exit the menu.

#### Take the picture.

- The picture is transferred and the < <sup>¬</sup> > icon switches from gray (not connected) to one of the icons in the sequence below.
- For transferred images, raise displayed in the shooting information (p.349).
- (Gray) Not connected : No connection with access point.
- (Blinking) Connecting...: Connecting to access point.

(Illuminated) Connected: Connection to access point established.

: Image transfer to access point in progress.

#### Cautions for Using Eye-Fi Cards

- Under [Wi-Fi settings] of [¥1: Wireless communication settings], if [Wi-Fi] is set to [Enable], image transfer with an Eye-Fi card will not be possible.
- Even if [Eye-Fi trans.] is set to [Disable], it may still transmit a signal. In hospitals, on airplanes, and in other places where wireless transmissions are prohibited, remove the Eye-Fi card from the camera beforehand.
- If the image transfer does not function, check the Eye-Fi card and computer settings. For details, refer to the card's instruction manual.
- Depending on the wireless LAN's connection conditions, the image transfer may take longer or it may be interrupted.
- Because of the communication function, the Eye-Fi card may become hot.
- The camera's battery power will be consumed faster.
- During the image transfer, auto power off will not take effect.
- If you insert a wireless LAN card other than an Eye-Fi card, [Eye-Fi settings] will not appear. Also, the transmission status icon <?> will not appear.

### Function Availability Table by Shooting Mode

#### Still Photo Shooting in Basic Zone Modes: 🔺 🔁 🕼

•.	Set automatically O: User selec		NOL SEIECIAL	ie/Disableu
	Function	<b>⊡</b> t	5	CA
Image quality s	ettings selectable	0	0	0
Aspect ratio				
ISO speed	Automatically set/Auto	•	•	•
150 speed	Manually set			
Picture Style	Automatically set	a∎•A	<i>≈</i> ∎A	a A
Ficture Style	Manual selection			
Ambience-base	ed shots			0
Background bl	ur			0
Brightness				
Color tone				
White balance	Auto	AWB	AWB	AWB
	Preset			
winte balance	Custom			
	Correction/Bracketing			
Auto Lighting C	Dptimizer	٠	•	•
	Peripheral illumination correction	•	•	•
Lens aberration	Chromatic aberration correction	٠	•	•
correction	Distortion correction			
	Diffraction correction	٠	•	•
Long exposure	noise reduction			
High ISO speed	I noise reduction	•	•	•
Color space	sRGB	•	•	•
Color space	Adobe RGB			
	Evaluative metering	•	•	•
Metering	Center-weighted average metering			
	Metering mode selection			

•: Set automatically O: User selectable I : Not selectable/Disabled

	Function	<b>⊡</b> t	5	CA
	One-Shot AF			
AF operation (Viewfinder shooting)	AI Servo AF			
(viewinder shooting)	AI Focus AF	•	•	•
AF operation (Live	One-Shot AF	•	•	•
View shooting)	Servo AF			
AF	AF point selection	0	0	0
AF	AF-assist beam	•		•
	Program shift			
	Exposure compensation			
Exposure	AEB			
	AE lock			
	Depth-of-field preview			
	Single shooting	0	0	0
	Continuous shooting	0	0	0
Drive	Silent single shooting <sup>*1</sup>			
	Silent continuous shooting*1			
	Self-timer/Remote control*2	0	0	0
	Automatic firing	0		0
	Flash on (Fires at all times)	0		0
Built-in flash	Flash off	0	•	0
Dunt-in nash	Red-eye reduction	0		0
	FE lock			
	Flash exposure compensation			
	Flash on (Fires at all times)	•		•
External flash	Flash off		•	
	Function settings			
	Custom Function settings			
Live View shooting		0	0	0
Quick Control		0	0	0

\*1: Settable only with viewfinder shooting.

\*2: Settable after pairing with Wireless Remote Control BR-E1 (sold separately).

#### Still Photo Shooting in Basic Zone Modes: SCN

_							SCN					
F	unction	Ą	iţi	*	Ř	ş,		۳ſ	24	E.	28	ě
Image quality	settings selectable	0	0	0	0	0	0	0	0	0	O*1	O*1
Aspect ratio												
ISO speed	Automatically set/ Auto	•	•	●	•	•	●	٠	•	•	•	•
-	Manually set											
Picture Style	Automatically set	a∎A	a A	3 A	a.sA	⇒ A	a A	≈ A	a∎A	a ∙A	a A	a.⊶A
Ficture Style	Manual selection											
Ambience-ba	sed shots											
Background	blur											
Brightness		0	0	0	0	0	0	0	0	0	0	
Color tone								0	0			
	Auto	AWB	AWB	AWB	AWB	AWB	AWB	AWBw	AWB	AWB	AWB	AWB
White	Preset											
balance	Custom											
	Correction/Bracketing											
Auto Lighting	g Optimizer	٠	•	•	•	•	•	۲	٠	•	•	•
	Peripheral illumination correction	•	•	•	•	•	•	•	•	•	•	•
Lens aberration	Chromatic aberration correction	•	•	•	•	•	•	٠	•	•	•	•
correction	Distortion correction		•									
	Diffraction correction	•	•	•	•	•	•	۲	•	•	•	•
Long exposure	e noise reduction											
High ISO spee	d noise reduction	•	•	•	•	•	•	•	•	•	•	•
Color space	sRGB	•	•	•	•	•	•	•	•	•	•	•
COIOI Space	Adobe RGB											
	Evaluative metering	•	•	•	•	•	٠	٠		•	•	•
Metering	Center-weighted average metering								•			
	Metering mode selection											

\*1: RAW + I L or RAW cannot be selected.

	Function						SCN	I				
, i i i i i i i i i i i i i i i i i i i			İİİ	*	×	÷.	۳	۳ſ	2î	Š	2	ŝ.
AF operation	One-Shot AF	٠	٠	•			٠	•	٠	٠	٠	•
(Viewfinder shooting)	Al Servo AF				٠	٠						
shooting)	AI Focus AF											
AF operation	One-Shot AF	•	•	•			•	•		•	•	•
(Live View shooting)	Servo AF				•	•						
AF	AF point selection	0	0	0	Ο	0	Ο	0	٠	0	0	0
	AF-assist beam	•	ullet				•	ullet	ullet	•	٠	٠
	Program shift											
	Exposure compensation											
Exposure	AEB											
	AE lock											
	Depth-of-field preview											
	Single shooting	0	0	0	Ο	0	Ο	0	0	0	0	Ο
	Continuous shooting	0	0	0	Ο	0	Ο	0	0	0	0	0
Drive	Silent single shooting*2											
	Silent continuous shooting*2											
	Self-timer/Remote control*3	0	0	0	0	0	0	0	0	0	0	0
	Automatic firing	0	0			0	Ο			•		
	Flash on (Fires at all times)	0	0			0	0	0			0	
Built-in flash	Flash off	0	0	•	٠	0	Ο	0	٠		0	٠
Built-III hash	Red-eye reduction	0	0			0	Ο	0		0	0	
	FE lock <sup>*2</sup>											
	Flash exposure compensation											
	Flash on (Fires at all times)	•	$\bullet$	$\bullet$	٠	•	ullet	$\bullet$		•	•	
External flash	Flash off								٠			$\bullet$
	Function settings											
	Custom Function settings											
Live View shootin	Ig	0	0	0	0	0	0	0		0	0	0
Quick Control		0	0	Ο	Ο	0	Ο	Ο	0	0	0	0

\*2: Settable only with viewfinder shooting.
 \*3: Settable after pairing with Wireless Remote Control BR-E1 (sold separately).

#### Still Photo Shooting in Basic Zone Modes: 🕥

•: Set automatically O: User selectable : Not selectable/Disabled

	Function					Q	)				
	Function	£.,	2	4	*	đ	ł	HDR	HDR	KHDR	SHDR
Image quality	settings selectable*1	0	0	0	0	0	0	0	0	0	0
ISO speed	Automatically set/Auto	•	•	•	•	٠	•	•	•	٠	•
130 speed	Manually set										
Picture Style	Automatically set	ڪ ج	e S	a ∙A	ة S	s:S	s د	a A	ڪ ج	≥ <b>∵</b> S	- S
Ficture Style	Manual selection										
Ambience-bas	sed shots										
Background b	olur										
Brightness											
Color tone											
	Auto	AWB	AWB	AWB	AWB	AWB	AWB	AWB	AWB	AWB	AWB
White	Preset										
balance	Custom										
	Correction/Bracketing										
Auto Lighting	Optimizer										
	Peripheral illumination correction	•	•	•	•	•	•	•	•	•	•
Lens aberration	Chromatic aberration correction	•	•	•	•	•	•	•	•	•	•
correction	Distortion correction										
	Diffraction correction	•	•	•	•	•	•	•	•	•	•
Long exposur	e noise reduction										
High ISO spee	ed noise reduction	•	•	•	•	•	٠	•	•	•	•
Color space	sRGB	•	•	•	•	•	•	•	•	•	•
Color space	Adobe RGB										
	Evaluative metering	•	•		•	•	•	•	•	•	•
Metering	Center-weighted average metering			٠							
	Metering mode selection										

\*1: RAW + I L or RAW cannot be selected.

	Function					Q	)				
	Function	Ē,	2	4	*	đ	₫	SHDR	HDR	KHDR	SHDR
AF operation	One-Shot AF							•	•	•	•
(Viewfinder	AI Servo AF										
shooting)	AI Focus AF	٠	•	•	•	•	•				
AF operation (Live	One-Shot AF	•	•	•	•	•	•	•	•	•	•
View shooting)	Servo AF										
AF	AF point selection	0	0	•	0	0	○*2	0	0	0	0
~	AF-assist beam	•	•	•	•	•	•	•	•	•	•
	Program shift										
	Exposure compensation										
Exposure	AEB										
	AE lock										
	Depth-of-field preview										
	Single shooting	0	0	0	0	0	0	0	0	0	0
	Continuous shooting							0	0	0	0
Drive	Silent single shooting*3										
	Silent continuous shooting*3										
	Self-timer/Remote control*4	0	0	0	0	0	0	0	0	0	0
	Automatic firing	0	0	0	0	0	0				
	Flash on (Fires at all times)	0	0	0	0	0	0				
Built-in flash	Flash off	0	0	0	0	0	0	•	•	•	•
Dunt-in nash	Red-eye reduction	0	0	0	0	0	0				
	FE lock*3										
	Flash exposure compensation										
	Flash on (Fires at all times)	٠	•	•	•	•	•				
External	Flash off							٠	٠	۲	٠
flash	Function settings										
	Custom Function settings										
Live View sho	oting	0	0	0	0	0	0	0	0	0	0
Quick Control	I	0	0	0	0	0	0	0	0	0	0

\*2: Selectable for Live View shooting.

\*3: Settable only with viewfinder shooting.

\*4: Settable after pairing with Wireless Remote Control BR-E1 (sold separately).

#### **Still Photo Shooting in Creative Zone Modes**

•	et automatically USEr s	electable	. NOL	Selectable	Disableu
	Function	Р	Τv	Av	М
Image quality set	tings selectable	0	0	0	0
Aspect ratio*1		0	0	0	0
ISO speed	Automatically set/Auto	0	0	0	0
150 speed	Manually set	0	0	0	0
Picture Style	Automatically set	0	0	0	0
Ficture Style	Manual selection	0	0	0	0
Creative filters*1*2		0	0	0	0
	Auto	0	0	0	0
White balance	Preset	0	0	0	0
white balance	Custom	0	0	0	0
	Correction/Bracketing	0	0	0	0
Auto Lighting Op	timizer	0	0	0	0
	Peripheral illumination correction	0	0	0	0
Lens aberration	Chromatic aberration correction	0	0	0	0
correction	Distortion correction	0	0	0	0
	Diffraction correction	0	0	0	0
Long exposure n	oise reduction	0	0	0	0
High ISO speed r	oise reduction	0	0	0	0
Highlight tone pr	iority	0	0	0	0
	sRGB	0	0	0	0
Color space	Adobe RGB	0	0	0	0
Metering	Evaluative metering	0	0	0	0
wetering	Metering mode selection	0	0	0	0

ullet : Set automatically  $\bigcirc$  : User selectable  $\fbox$  : Not selectable/Disabled

\*1: Settable only with Live View shooting.

\*2: RAW + I L or RAW cannot be selected.
	Function	Р	Τv	Av	М
AF operation	One-Shot AF	0	0	0	0
(Viewfinder	Al Servo AF	0	0	0	0
shooting)	AI Focus AF	0	0	0	0
AF operation (Live	One-Shot AF	0	0	0	0
View shooting)	Servo AF	0	0	0	0
AF	AF point selection	0	0	0	0
AF	AF-assist beam	0	0	0	0
	Program shift	0			
	Exposure compensation	0	0	0	*3
Exposure	AEB	0	0	0	0
	AE lock	0	0	0	*4
	Depth-of-field preview	0	0	0	0
	Single shooting	0	0	0	0
	Continuous shooting	0	0	0	0
Drive	Silent single shooting*5	0	0	0	0
	Silent continuous shooting*5	0	0	0	0
	Self-timer/Remote control*6	0	0	0	0
	Automatic firing				
	Flash on (Fires at all times)	0	0	0	0
Built-in flash	Flash off	0	0	0	0
Dunt-in nash	Red-eye reduction	0	0	0	0
	FE lock*7	0	0	0	0
	Flash exposure compensation	0	0	0	0
	Flash on (Fires at all times)	0	0	0	0
External flash	Flash off	0	0	0	0
	Function settings	0	0	0	0
	Custom Function settings	0	0	0	0
Live View shooting	ıg	0	0	0	0
Quick Control		0	0	0	0

\*3: Settable only with ISO Auto set.

\*4: With ISO Auto, you can set a fixed ISO speed.

\*5: Works only with viewfinder shooting in One-Shot AF mode.

\*6: Settable after pairing with Wireless Remote Control BR-E1 (sold separately).

\*7: Works only with viewfinder shooting.

### **Movie Shooting**

	Function	Ť.	5	CA	SCN	Q	Ρ	Τv	Av	М
	T unouon		₩ <mark>A<sup>+</sup> HDR</mark>			· <b>!</b>			M	
Select mov	ie recording size	0	0	0	•	O*1	0	0	0	0
Digital zoor	n	0	0	0			0	0	0	0
HDR movie	shooting				•					
Creative filt	ters					0	0	0	0	0
Video snap	shot	0	0	0			0	0	0	0
Time-lapse	movie	0	0	0			0	0	0	0
	Automatically set/Auto	٠	٠	٠	•	•	٠	٠	٠	0
ISO speed	Manually set									0
Picture	Automatically set	<b>≈</b> •A	<b>≈</b> •A	<b>≈</b> •A	<b>≈</b> •A	≈ S	0	0	0	0
Style	Manual selection						0	0	0	0
	Auto	AWB	AWB	AWB	AWB	AWB	0	0	0	0
White	Preset						0	0	0	0
balance	Custom						0	0	0	0
	Correction						0	0	0	0
Auto Lightin	ng Optimizer	٠	٠	٠	•		0	0	0	0
Lens aberration	Peripheral illumination correction	•	•	•	•	•	0	0	0	0
correction	Chromatic aberration correction	•	•	•	•	•	0	0	0	0
High ISO speed noise reduction		•	•	٠	•	•	٠	•	٠	٠
Highlight to	one priority						0	0	0	0

•: Set automatically O: User selectable : Not selectable/Disabled

\*1: THD and TVGA FHD 59.94 FHD 50.00P cannot be selected.

	Function	\ <b>∆</b> †	¥.	CA	SCN	Q	Ρ	Τv	Av	М
i direttoli			∙ <b>≝</b> <sup>A⁺</sup>		HDR			.₩		, <sub>∭</sub> M
Metering		•	•	•	•	•	٠	•	٠	•
	Face+Tracking*2	0	0	0	0	0	0	0	0	0
	Smooth zone*2	0	0	0	0	0	0	0	0	0
AF	Live 1-point AF	0	0	0	0	0	0	0	0	0
	Manual focusing (MF)	0	0	0	0	0	0	0	0	0
	Movie Servo AF <sup>*2</sup>	0	0	0	0	0	0	0	0	0
	Program shift									
Exposure	Exposure compensation						0	0	0	*3
Exposure	AE lock						0	0	0	*4
	Depth-of-field preview									
Aspect ratio										
Sound recording		0	0	0	0	0	0	0	0	0
Quick Cont	trol	0	0	0	0	0	0	0	0	0

\*2: Not settable with Miniature effect movie set.

\*3: Settable only with ISO Auto set.

\*4: With ISO Auto, you can set a fixed ISO speed.

## System Map





- \*2: The digital compass cannot be used with this camera. (Shooting direction will not be recorded.)
- \* All cable lengths given are approximate figures.

## MENU Menu Settings

### Viewfinder Shooting (Basic Zone Modes)

### **D**: Shooting 1 (Red)

Page Image guality 128 RAW + L \*1/RAW \*1 Single shooting / Continuous shooting / Selftimer: 10-sec /remote control\*2 / Self-timer: 2-Drive mode 123 sec. / Self-timer: Continuous Image review time Off / 2 sec. / 4 sec. / 8 sec. / Hold 288 Release shutter Enable / Disable 287 without card **Red-eye reduction** Disable / Enable 183 Live View shooting Enable / Disable 197

\*1: Not selectable in the < SCN: 1 &> and < > modes.

\*2: Displayed after paring with Wireless Remote Control BR-E1 (sold separately).

Although the menu tabs and options displayed under [ Image: (Playback)], [ f (Set-up)], and [ ★ (My Menu)] are basically the same for viewfinder shooting, Live View shooting, and movie shooting, there may be slight differences.

### Live View Shooting (Basic Zone Modes)

### : Shooting 1 (Red)

 L/J L/J M/J M/J S1/J S1/S2/
 Image quality 128 RAW + L \*1/ RAW \*1 Single shooting / Continuous shooting / Selftimer: 10-sec./remote control\*2 / Self-timer: 2-123 Drive mode sec. / Self-timer: Continuous Image review time Off / 2 sec. / 4 sec. / 8 sec. / Hold 288 Release shutter Enable / Disable 287 without card **Red-eye reduction** Disable / Enable 183

\*1: Not selectable in the <SCN: M & and <Q > modes.

\*2: Displayed after paring with Wireless Remote Control BR-E1 (sold separately).

#### : Shooting 2 (Red)

AF method	: +Tracking / Smooth zone / Live 1-point AF	214
Touch Shutter	Disable / Enable	224
Grid display	Off / 3x3 ♯ / 6x4  / 3x3+diag	209

Page

# Viewfinder Shooting and Live View Shooting (Creative Zone Modes)

### **D**: Shooting 1 (Red)

Page

Image quality	▲ L / J L / ▲ M / J M / J S1 / J S1 / S2 / RAW + ▲ L / RAW	128	
Drive mode	Single shooting / Continuous shooting / Silent single shooting*1 / Silent continuous shooting*1 / Self-timer: 10-sec./remote control*2 / Self-timer: 2-sec. / Self-timer: Continuous	123	
Image review time	Off / 2 sec. / 4 sec. / 8 sec. / Hold	288	
Release shutter without card	Enable / Disable	287	
AF operation*3	ONE SHOT / AI FOCUS / AI SERVO	114	
Lens electronic MF	Disable after One-Shot AF / Enable after One-Shot AF	118	

\*1: Cannot be set for Live View shooting.

\*2: Displayed after paring with Wireless Remote Control BR-E1 (sold separately).

\*3: [ONE SHOT/SERVO] will take effect for Live View shooting.

### : Shooting 2 (Red)

· ·		
Exposure compensation/ AEB setting	1/3- and 1/2-stop increments, ±5 stops* (AEB ±2 stops)	176
Lens aberration correction	Peripheral illumination correction: Enable / Disable	
	Chromatic aberration correction: Enable / Disable	153
	Distortion correction: Disable / Enable	155
	Diffraction correction: Enable / Disable	
Flash control	Flash firing / E-TTL II metering / Flash synchronization speed in Av mode / Built-in flash settings / External flash function settings / External flash C.Fn setting / Clear settings	189
Red-eye reduction	Disable / Enable	183
ISO speed	ISO speed setting	132
ISO Auto	Max.:400 / Max.:800 / Max.:1600 / Max.:3200 / Max.:6400 / Max.:12800 / Max.:25600	134

\* During Live View shooting or when [**D**: Shooting screen] is set to [Guided], exposure compensation can be set up to ±3 stops.

### **D**: Shooting 3 (Red)

: Shooting 3 (Red)	(	Page
Metering mode	<ul> <li>Evaluative metering /  Partial metering /</li> <li>Spot metering /  Center-weighted average metering</li> </ul>	172
Auto Lighting	Disable / Low / Standard / High	149
Optimizer	Disable during manual exposure	149
White balance	ໝ (Ambience priority) / ໝ w (White priority) / ☀/ 兪 / ▲ / 涞 / 兴 / ↓ ⊲	143
Custom White Balance	Manual setting of white balance	145
White balance shift/	White balance correction: B/A/M/G bias, 9 levels each	147
bracketing	White balance bracketing: B/A and M/G bias, single-level increments, ±3 levels	148
Color space	sRGB / Adobe RGB	159

### : Shooting 4 (Red)

Picture Style	Auto / SSS Standard / SSP Portrait / SSS Landscape / SSS Fine Detail / SSS Neutral / SSS Faithful / SSS Monochrome / SSS User Defined 1-3	135
Long exposure noise reduction	Disable / Auto / Enable	151
High ISO speed noise reduction	Disable / Low / Standard / High / Multi Shot Noise Reduction	150
Dust Delete Data	Obtain data to be used with Digital Photo Professional (EOS software) to delete dust spots	304
Live View shooting*	Enable / Disable	197

\* Not displayed for Live View shooting.

### **D**: Shooting 5\* (Red)

AF method	:+Tracking / Smooth zone / Live 1-point AF	214
Touch Shutter	Disable / Enable	224
Metering timer	4 sec. / 8 sec. / 16 sec. / 30 sec. / 1 min. / 10 min. / 30 min.	209
Grid display	Off / 3x3 ♯ / 6x4  / 3x3+diag	209
Aspect ratio	3:2 / 4:3 / 16:9 / 1:1	210
* D1 1 16 11 16		

\* Displayed for Live View shooting.

#### Playback 1 (Blue)

Page 336 Protect images Protect images Rotate image Rotate images 316 339 Erase images Erase images Specify images to be printed (DPOF) Print order 342 Photobook Set-up Specify images for a photobook 346 Grainy B/W / Soft focus / Fish-eye effect / Art Creative filters bold effect / Water painting effect / Toy camera 356 effect / Miniature effect

#### Playback 2 (Blue)

Cropping	Crop part of the image	361
Resize	Downsize JPEG image's pixel count	359
Rating	Rate images	317
Slide show	Display time / Repeat / Transition effect / Background music	330
Set image search conditions	Rating / Date / Folder / Protect / Type of file	320
Image jump w/ 📇	1 image / 10 images / Jump images by the specified number / Date / Folder / Movies / Stills / Protect / Rating	311

#### Playback 3 (Blue)

AF point display	Disable / Enable	349
Histogram display	Brightness / RGB	353
Control over HDMI	Disable / Enable	334

<b>•: Set-up 1</b> (Yellow)		Page
Select folder	Create and select a folder	290
File numbering	Numbering: Continuous / Auto reset	
File numbering	Manual reset	294
Auto rotate	On 🗖 📃 / On 🖳 / Off	297
Format card	Erase data on the card by formatting	68
Eye-Fi settings	Displayed when a commercially-available Eye-Fi card is inserted	387
	Wi-Fi settings: Wi-Fi/NFC connection / Password / Connection history / MAC address	
Wireless communication	Wi-Fi function: Transfer images between cameras / Connect to smartphone / Remote control (EOS Utility) / Print from Wi-Fi printer / Upload to Web service	_*
settings	Bluetooth function: Bluetooth function / Pairing / Check/clear connection info / Bluetooth address	-
	Send images to smartphone	
	Nickname	
	Clear settings	

\* For details, refer to the Wi-Fi (Wireless Communication) Function Instruction Manual.



When using a wireless communication function or GPS device, be sure to check the countries and region of use, and observe the laws and regulations of the country or region.

### 4 · Sot up 2 (Vollow)

<pre> f: Set-up 2 (Yellow) </pre>		Page
Auto power off	10 sec/30 sec / 30 sec. / 1 min. / 2 min. / 4 min. / 8 min. / 15 min. / Disable	288
LCD brightness	Adjust the brightness (seven levels)	289
LCD off/on button*1	Shutter button / Shutter/DISP / Remains on	301
Date/Time/Zone	Date (year, month, day) / Time (hour, min., sec.) / Daylight saving time / Time zone	44
Language 😥	Select the interface language	47
GPS device settings*2	Disable / GPS receiver / Smartphone	282

\*1: Not displayed for Live View shooting or movie shooting.

\*2: Settable after GPS Receiver GP-E2 (sold separately) is attached or after the camera is paired with a smartphone.

Video system	For NTSC / For PAL	333
Touch control	Standard / Sensitive / Disable	67
Switch ■/¥ button	Disable / Enable	119
Веер	Enable / Touch 戌 / Disable	287
Battery information	Remaining capacity / Recharge performance	380
	Auto cleaning ,tot : Enable / Disable	302
Sensor cleaning	Clean now , 🗖	302
	Clean manually	306

### **Y: Set-up 3** (Yellow)

Shaded menu options are not displayed in Basic Zone modes.

Page

### **\U00e7: Set-up 4** (Yellow)

		i ugo
Custom Functions (C.Fn)	Customize camera functions as desired	366
Clear settings	Clear all camera settings / Clear all Custom Functions (C.Fn)	298
Copyright information	Display copyright information / Enter author's name / Enter copyright details / Delete copyright information	295
Manual/software URL	QR code for the download site	5
Certification Logo Display	Displays some of the logos of the camera's certifications	379
firmware ver.*	For updating the firmware	-

\* Not displayed for Live View shooting or movie shooting.

To prevent an inadvertent update of the firmware, selecting [ firmware ver.] will disable touch control.

### Display level settings (Blue green)

Shooting screen*	Guided / Standard	52
Menu display	Guided / Standard	54
Mode guide*	Enable / Disable	55
Feature guide	Enable / Disable	56

\* Cannot be set for Live View shooting or movie shooting.

### ★: My Menu\* (Green)

Add My Menu tab	Add My Menu tabs 1-5	373
Delete all My Menu tabs	Delete all My Menu tabs	376
Delete all items	Delete all items under My Menu tabs 1-5	376
Menu display	Normal display / Display from My Menu tab / Display only My Menu tab	377

\* Not displayed when [ : Menu display] is set to [Guided].

### Movie Shooting

### **D**: Shooting 1 (Red)

<b>La. Shouling T</b> (Red)		Faye
Movie recording size	• 1920x1080 / 1280x720 / 640x480 • NTSC: 59.94p / 29.97p / 23.98p PAL: 50.00p / 25.00p • Standard / Light	245
Digital zoom	Disable / Approx. 3-10x zoom	248
	Sound recording: Auto / Manual / Disable	
Cound recording*	Recording level	271
Sound recording*	Wind filter: Auto / Disable	
	Attenuator: Disable / Enable	
Lens aberration correction	Peripheral illumination correction: Enable / Disable	153
	Chromatic aberration correction: Enable / Disable	133
Lens electronic MF	Disable after One-Shot AF / Enable after One-Shot AF	118

Page

\* In Basic Zone modes, the settings available for [Sound recording] will be [On/Off].

### : Shooting 2 (Red)

Exposure compensation	1/3- and 1/2-stop increments, ±3 stops	176
P. ISO speed*	ISO speed setting	132 277
ISO Auto	Max.:6400 / Max.:12800	277
Auto Lighting Optimizer	Disable / Low / Standard / High	149
	Disable during manual exposure	

\* Settable only for manual exposures.

### : Shooting 3 (Red)

Page Auto / ESS Standard / ESP Portrait / EL Landscape / ED Fine Detail / EN Neutral / **Picture Style** 135 ESE Faithful / Monochrome / User Defined 1-3 (Ambience priority) / WEw (White priority) / White balance 143 業/兪/亀/羔/湍/約/№ Custom White Manual setting of white balance 145 Balance White balance shift B/A/M/G bias. 9 levels each 147

### **D**: Shooting 4\* (Red)

Movie Servo AF	Enable / Disable	273
AF method	: +Tracking / Smooth zone / Live 1-point AF	274
Metering timer	4 sec. / 8 sec. / 16 sec. / 30 sec. / 1 min. / 10 min. / 30 min.	274
Grid display	Off / 3x3 ♯ / 6x4  / 3x3+diag	275
Sutton function	<sup>®</sup> AF/-/®/-/ <sup>®</sup> AF/ <sup>▶</sup> ₩/®// <sup>▶</sup> ₩	275

\* In Basic Zone modes, these menu options are displayed under the [2] tab.

### **D**: Shooting 5\* (Red)

Video snapshot	Video snapshot: Disable / Enable	261
	Album settings: Create a new album / Add to existing album	
	Show confirm message: Enable / Disable	
Time-lapse movie	Disable / Enable (Interval / Number of shots / Auto exposure / LCD auto off / Beep as image taken)	254
Remote control shooting	Disable / Enable	276

\* In Basic Zone modes, these menu options are displayed under the [ 13] tab.

## **Troubleshooting Guide**

If a problem occurs with the camera, first consult this Troubleshooting Guide. If this Troubleshooting Guide does not resolve the problem, contact your dealer or nearest Canon Service Center.

### **Power-Related Problems**

### The battery does not recharge.

 Do not use any battery other than genuine Canon Battery Pack LP-E17.

### The battery charger's lamp blinks.

If (1) the battery charger or battery has a problem or (2) communication with the battery failed (with a non-Canon battery pack), the protection circuit will stop charging, and the charge lamp will blink in orange. In the case of (1), unplug the charger's power plug from the power outlet. Detach and reattach the battery to the charger. Wait two or three minutes, then reconnect the power plug to the power outlet. If the problem persists, contact your dealer or nearest Canon Service Center.

# The camera is not activated even when the power switch is set to <0N>.

- Make sure the battery is installed properly in the camera (p.38).
- Make sure the card slot/battery compartment cover is closed (p.38).
- Recharge the battery (p.36).
- Press the <DISP> button (p.70).

# The access lamp still blinks even when the power switch is <0FF>.

 If the power is turned off while an image is being recorded to the card, the access lamp will remain on or continue to blink for a few seconds. When the image recording is complete, the power will turn off automatically.

# [Battery communication error. Does this battery/do these batteries display the Canon logo?] is displayed.

- Do not use any battery other than genuine Canon Battery Pack LP-E17.
- Remove and install the battery again (p.38).
- If the electrical contacts are dirty, use a soft cloth to clean them.

### The battery becomes exhausted quickly.

- Use a fully-charged battery (p.36).
- The battery performance may have degraded. See [**Ý**3: Battery info.] to check the battery's recharge performance level (p.380). If the battery performance is poor, replace the battery with a new one.
- The number of possible shots will decrease with any of the following operations:
  - Pressing the shutter button halfway for a prolonged period.
  - · Activating the AF frequently without taking a picture.
  - Using the lens's Image Stabilizer.
  - Using the LCD monitor frequently.
  - Continuing Live View shooting or movie shooting for a prolonged period.
  - · Using the Bluetooth function.
  - Using the Wi-Fi function.
  - The Eye-Fi card's transmission is enabled.

### The camera turns off by itself.

- Auto power off is in effect. If you do not want auto power off to take effect, set [**Y2:** Auto power off] to [Disable] (p.288).
- Even if [**Y**2: Auto power off] is set to [Disable], the LCD monitor will still turn off after the camera is left idle for approx. 30 min. (The camera's power does not turn off.) Press the <DISP> button to turn on the LCD monitor.

### Shooting-Related Problems

### The lens cannot be attached.

The camera cannot be used with EF-M lenses (p.48).

### No images can be shot or recorded.

- Make sure the card is properly inserted (p.38).
- Slide the card's write-protect switch to the Write/Erase setting (p.38).
- If the card is full, replace the card or delete unnecessary images to make space (p.38, 339).
- You cannot take a picture when focus indicator <●> in the viewfinder blinks during focusing with One-Shot AF. Press the shutter button halfway again to refocus automatically, or focus manually (p.51, 122).

### The card cannot be used.

If a card error message is displayed, see page 40 or 427.

# An error message is displayed when the card is inserted in another camera.

 Since SDXC cards are formatted in exFAT, if you format a card with this camera and then insert it into another camera, an error may be displayed and it may not be possible to use the card.

### The image is out of focus or blurred.

- Set the lens's focus mode switch to <AF> (p.48).
- Press the shutter button gently to prevent camera shake (p.50-51).
- With a lens equipped with the Image Stabilizer, set the IS switch to <0N>.
- In low light, the shutter speed may become slow. Use a faster shutter speed (p.164), set a higher ISO speed (p.132), use flash (p.182), or use a tripod.

### I cannot lock the focus and recompose the shot.

 Set the AF operation to One-Shot AF. Focus lock is not possible in the AI Servo AF mode or when servo takes effect in AI Focus AF mode (p.114).

# Horizontal stripes appear, or the exposure or color tone look strange.

 Horizontal stripes (noise) or irregular exposures can be caused by fluorescent lighting, LED lighting, or other light sources during viewfinder or Live View shooting. Also, the exposure or color tone may not come out right. A slow shutter speed may reduce the problem.

# The standard exposure cannot be obtained or the exposure is irregular.

 During viewfinder shooting or Live View shooting, if you use a TS-E lens (except the TS-E17mm f/4L or TS-E24mm f/3.5L II) and shift or tilt the lens or use an extension tube, the standard exposure may not be obtained or the exposure may be irregular.

### The continuous shooting speed is slow.

 The maximum continuous shooting speed may become slower depending on the shutter speed, aperture, subject conditions, brightness, lens, flash use, temperature, battery type, remaining battery level, shooting function settings, etc. For details, see page 124.

### The maximum burst during continuous shooting is lower.

 If you shoot a subject that has fine detail such as a field of grass, the file size will be larger, and the actual maximum burst may be lower than the number listed on page 129.

### ISO 100 cannot be set.

 Under [¥4: Custom Functions(C.Fn)], if [4: Highlight tone priority] is set to [1:Enable], ISO 100 cannot be set. If [0:Disable] is set, ISO 100 can be set (p.367). This also applies to movie shooting (p.239).

### Expanded ISO speeds cannot be selected.

Under [¥4: Custom Functions(C.Fn)], if [4: Highlight tone priority] is set to [1:Enable], the settable ISO speed range will be ISO 200 - ISO 25600 (up to ISO 12800 for movies) even when [2: ISO expansion] is set to [1:On]. If [0:Disable] is set for [4: Highlight tone priority], [H] can be set (p.367). This also applies to movie shooting (p.239).

#### The Auto Lighting Optimizer cannot be set.

 Under [¥4: Custom Functions(C.Fn)], if [4: Highlight tone priority] is set to [1:Enable], the Auto Lighting Optimizer cannot be set. If [0:Disable] is set, the Auto Lighting Optimizer can be set (p.367).

# Even if I set a decreased exposure compensation, the image comes out bright.

Set [13: Auto Lighting Optimizer] to [Disable]. When [Standard]
 [Low] [High] is set, even if you set a decreased exposure compensation or flash exposure compensation, the image may come out bright (p.149).

# When I use the $\langle Av \rangle$ mode with flash, the shutter speed becomes slow.

 If you shoot at night when the background is dark, the shutter speed automatically becomes slow (slow-sync shooting) so that both the subject and background are properly exposed. To prevent a slow shutter speed, under [<sup>1</sup>2: Flash control], set [Flash sync. speed in Av mode] to [1/200-1/60sec. auto] or [1/200 sec. (fixed)] (p.190).

### The built-in flash rises by itself.

- In shooting modes (<(▲) > <((△) > <SCN: ※) (※ ※ (△) >
   <(○): ▲ △ ≪ (○) >) whose default setting is < \*> (Built-in autoflash), the built-in flash will be raised automatically when necessary.
- In the <SCN: ⊞ ☆> and <②: Sum Sum Sum Sum > modes, when you press the shutter button halfway under low-light conditions, the built-in flash may be raised automatically and emit the AF-assist beam.

### The built-in flash does not fire.

 If you use the built-in flash too often in too short a period of time, the flash may stop firing for a while to protect the light-emitting unit.

#### The external flash always fires at full output.

- If you use a flash unit other than an EX-series Speedlite, the flash will always fire at full output (p.188).
- Under [D2: Flash control], if [Flash metering mode] in [External flash C.Fn setting] is set to [TTL flash metering] (autoflash), the flash will always fire at full output (p.194).

# Flash exposure compensation cannot be set for the external Speedlite.

 If flash exposure compensation is set with the external Speedlite, compensation amount cannot be set with the camera. When the external Speedlite's flash exposure compensation is canceled (set to 0), flash exposure compensation can be set with the camera.

### High-speed sync cannot be set in the $\langle Av \rangle$ mode.

 Under [12: Flash control], set [Flash sync. speed in Av mode] to [Auto] (p.190).

### The camera makes a noise when it is shaken.

 A small noise may be heard when the camera's internal mechanism moves slightly.

# The shutter makes two release sounds during Live View shooting.

 If you use flash, the shutter will make two release sounds each time you shoot (p.198).

# During Live View shooting, a white 🛽 or red 🖾 icon is displayed.

 It indicates that the camera's internal temperature is high. If the white
 > icon is displayed, the still photo's image quality may deteriorate. If the red 
 > icon is displayed, it indicates that the Live View shooting will soon stop automatically (p.230).

### During movie shooting, the red 🔟 icon is displayed.

It indicates that the camera's internal temperature is high. If the red <100 > icon is displayed, it indicates that the movie shooting will soon stop automatically (p.278).

### Movie shooting stops by itself.

- If the card's writing speed is slow, movie shooting may stop automatically. For cards that can record movies, see page 8. To find out the card's writing speed, refer to the card manufacturer's Web site, etc.
- If you shoot a movie for 29 min. 59 sec., the movie shooting will stop automatically.

### The ISO speed cannot be set for movie shooting.

 In shooting modes other than <M>, the ISO speed is set automatically.
 In the <M> mode, you can manually set the ISO speed (p.239).

### The exposure changes during movie shooting.

- If you change the shutter speed or aperture during movie shooting, the changes in the exposure may be recorded.
- Zooming the lens during movie shooting may cause changes in the exposure regardless of whether the lens's maximum aperture changes or not. The changes in the exposure may be recorded as a result.

### The subject looks distorted during movie shooting.

 If you move the camera to the left or right or shoot a moving subject, the image may look distorted.

# The image flickers or horizontal stripes appear during movie shooting.

 Flickering, horizontal stripes (noise), or irregular exposures can be caused by fluorescent lighting, LED lighting, or other light sources during movie shooting. Also, changes in the exposure (brightness) or color tone may be recorded. Note that in the <**M**> mode, a slow shutter speed may reduce the problem.

### Wi-Fi

#### Wi-Fi cannot be set.

- If the camera is connected to a computer or other device with an interface cable, Wi-Fi functions cannot be set. ([**\fu1: Wireless** communication settings] will be grayed out.) Disconnect the interface cable before setting any functions.
- Refer to the Wi-Fi (Wireless Communication) Function Instruction Manual.

### **Operation Problems**

### A camera button or dial does not work as expected.

- Under [¥4: Custom Functions(C.Fn)], check the [9: Assign SET button] setting (p.371).
- For movie shooting, check the [ btn function] setting (p.275).

### During touch screen operations, the beeper suddenly sounds softer.

• Check if your finger is blocking the speaker (p.28).

### Touch operation is not possible.

• Check if [**43: Touch control**] is set to [**Standard**] or [**Sensitive**] (p.67).

### **Display Problems**

#### The menu screen shows fewer tabs and options.

- Certain tabs or menu options are not displayed in Basic Zone modes. Set the shooting mode to a Creative Zone mode (p.60).
- Under the [★] tab, [Menu display] is set to [Display only My Menu tab] (p.377).

### The file name's first character is an underscore ("\_").

 Set the color space to sRGB. If Adobe RGB is set, the first character will be an underscore (p.159).

#### The file name starts with "MVI\_".

It is a movie file (p.294).

### The file numbering does not start from 0001.

 If the card already contains recorded images, the image file number may not start from 0001 (p.294).

### The shooting date and time displayed are incorrect.

- Make sure the correct date and time are set (p.44).
- Check the time zone and daylight saving time (p.44).

### The date and time are not in the image.

 The shooting date and time do not appear in the image. The date and time are recorded in the image data as shooting information. When printing, you can imprint the date and time in the picture, using the date and time recorded in the shooting information (p.342).

### [###] is displayed.

 If the number of images recorded on the card exceeds the number the camera can display, [###] will be displayed (p.319).

### The LCD monitor does not display a clear image.

- If the LCD monitor is dirty, use a soft cloth to clean it.
- In low or high temperatures, the LCD monitor display may seem slow or may look black. It will return to normal at room temperature.

### [Eye-Fi settings] does not appear.

- [Eye-Fi settings] will appear only when an Eye-Fi card is installed in the camera. If the Eye-Fi card has a write-protect switch set to the LOCK position, you will not be able to check the card's connection status or disable Eye-Fi transmission (p.387).
- If [Wi-Fi] is set to [Enable] for [Wi-Fi settings] under [¥1: Wireless communication settings], [Eye-Fi settings] cannot be selected even when an Eye-Fi card is installed.

### Playback Problems

### Part of the image blinks in black.

 It is the highlight alert (p.353). Overexposed areas with clipped highlights will blink.

### The image cannot be erased.

• If the image is protected, it cannot be erased (p.336).

### The movie cannot be played back.

Movies edited with a computer cannot be played back with the camera.

# Operation sound and mechanical sound can be heard during movie playback.

 If you operate the camera's dials or lens during movie shooting, the operation sound will also be recorded. Using the Directional Stereo Microphone DM-E1 (sold separately) is recommended (p.271).

### The movie appears to freeze momentarily.

 If there is a drastic change in the exposure level during autoexposure movie shooting, the recording will stop momentarily until the brightness stabilizes. In such a case, shoot in the <**M**> mode (p.238).

### No picture appears on the TV set.

- Make sure the [**Ý**3: Video system] is correctly set to [For NTSC] or [For PAL] (depending on the video system of your TV set).
- Make sure the HDMI cable's plug is inserted all the way in (p.333).

### There are multiple movie files for a single movie shoot.

 If the movie file size reaches 4 GB, another movie file will be created automatically (p.247). However, if you use an SDXC card formatted with the camera, you can record a movie in a single file even if it exceeds 4 GB.

#### My card reader does not recognize the card.

 Depending on the card reader used and the computer's operating system, SDXC cards may not be correctly recognized. In such a case, connect your camera to the computer with the interface cable, then transfer the images to the computer using EOS Utility (EOS software, p.444).

#### The image cannot be resized.

With this camera, you cannot resize JPEG S2 or RAW images (p.359).

#### The image cannot be cropped.

With this camera, you cannot crop RAW images (p.361).

#### A red box is displayed on the image.

[ >3: AF point disp.] is set to [Enable] (p.349).

### A red box is not displayed on the image.

- Even if [**3**: **AF point disp.**] is set to [**Enable**] (p.349), the red box is not displayed for the following images:
  - Images shot with Multi Shot Noise Reduction (p.150)
  - Images recorded with distortion correction enabled (p.155)
  - Images shot with < SCN: ₩ 🖬 🖄 > or < ۞: 🖓 🖬 🖓 🖓
  - · Cropped images (p.361)
  - Images with Fish-eye effect applied after shooting (p.356)

### Dots of light appear on the image.

 White, red, blue, or other colored dots of light may appear on images if the sensor is affected by cosmic rays, etc. Their appearance may be reduced by performing [Clean now <u>\_</u>] under [**43: Sensor cleaning**] (p.302).

### **Sensor Cleaning Problems**

### The shutter makes a sound during sensor cleaning.

 When you select [Clean now, -], the shutter will make a mechanical sound, but no picture is taken (p.302).

### Automatic sensor cleaning does not work.

 If you repeatedly turn the power switch <ON> and <OFF> within a short time period, the < → > icon may not be displayed (p.42).

### **Computer Connection Problems**

# Communication between the connected camera and computer does not work.

 When using EOS Utility (EOS software), set [15: Time-lapse movie] to [Disable] (p.254).

### I cannot transfer images to a computer.

- Install EOS software on the computer (p.444).
- While a Wi-Fi connection is established, the camera cannot be connected to a computer with an interface cable.

## Error Codes



If there is a problem with the camera, an error message will appear. Follow the onscreen instructions.

Cause and countermeasures

Number	Error Message and Solution
01	Communications between the camera and lens is faulty. Clean the lens contacts.
	Clean the electrical contacts on the camera and lens, use a Canon lens, or remove and install the battery again (p.27, 48, 38).
02	Card cannot be accessed. Reinsert/change card or format card with the camera.
02	Remove and insert the card again, replace the card, or format the card (p.38, 68).
	Cannot save images because card is full. Replace card.
04	Replace the card, erase unnecessary images, or format the card (p.38, 339, 68).
05	The built-in flash could not be raised. Turn the camera off and on again.
	Operate the power switch (p.42).
06	Sensor cleaning could not be performed. Turn the camera off and on again.
	Operate the power switch (p.42).
10, 20 30, 40	An error prevented shooting. Turn the camera off and on again or re-install the battery.
50, 60 70, 80 99	Operate the power switch, remove and install the battery again, or use a Canon lens (p.42, 38, 48).

\* If the error message still appears after following the above instructions, write down the error code number and contact your nearest Canon Service Center.

## Specifications

• Type	
Туре:	Digital, single-lens reflex, AF/AE camera with built-in flash
Recording media:	SD/SDHC*/SDXC* memory cards * UHS-I cards supported
Image sensor size:	Approx. 22.3 x 14.9 mm
Compatible lenses:	Canon EF lenses (including EF-S lenses) * Excluding EF-M lenses
	(35mm-equivalent angle of view is that of a lens with approx. 1.6x the focal length indicated.)
Lens mount:	Canon EF mount
Image Sensor	
Type:	CMOS sensor
Effective pixels:	Approx. 24.2 megapixels
·	* Rounded to the nearest 100,000.
Aspect ratio:	3:2
Dust deletion:	Auto, Manual, Dust Delete Data appending
Recording System	
Recording format:	Design rule for Camera File System (DCF) 2.0
Image type:	JPEG, RAW (14-bit Canon original),
0 11	RAW+JPEG Large simultaneous recording possible
Pixels recorded:	L (Large) : 24.0 megapixels (6000 x 4000) M (Medium) : Approx. 10.6 megapixels (3984 x 2656) S1 (Small 1) : Approx. 5.9 megapixels (2976 x 1984) S2 (Small 2) : Approx. 3.8 megapixels (2400 x 1600)

Aspect ratio:
Folder Creation/
selection:
File numbering:

Continuous, Auto reset, Manual reset

: 24.0 megapixels (6000 x 4000)

RAW

3:2, 4:3, 16:9, 1:1 Possible

### Image Processing During Shooting

Picture Style:	Auto, Standard, Portrait, Landscape, Fine Detail,
Ficture Style.	Neutral, Faithful, Monochrome, User Defined 1 - 3
White balance:	Auto (Ambience priority), Auto (White priority), Preset
	(Daylight, Shade, Cloudy, Tungsten light, White
	fluorescent light, Flash), Custom
	White balance correction, and White balance bracketing provided
	* Flash color temperature information transmission possible
Noise reduction:	Applicable to long exposures and high ISO speed shots
Automatic image	Auto Lighting Optimizer provided
brightness correction:	
Highlight tone priority:	Provided
Lens aberration	Peripheral illumination correction, Chromatic aberration
correction:	correction, Distortion correction, Diffraction correction
Viewfinder	
Type:	Eye-level pentamirror
Field of view coverage:	Vertical/Horizontal approx. 95% (with Eye point approx.
	19 mm)
Magnification:	Approx. 0.87x (-1 m <sup>-1</sup> with 50mm lens at infinity)
Eyepoint:	Approx. 19 mm (from eyepiece lens center at -1 m <sup>-1</sup> )
Dioptric adjustment	Approx3.0 - +1.0 m <sup>-1</sup> (dpt)
range:	Fixed Drasisian Matte
Focusing screen: Mirror:	Fixed, Precision Matte Quick-return type
Depth-of-field preview:	Provided
Depth of field preview.	Toviaca

• Autofocus (for viewfinder shooting)

Туре:	TTL secondary image-registration, phase-difference
	detection with the dedicated AF sensor
AF points:	9-point AF (Center point: cross-type, vertical line
	sensitive when supporting f/2.8)
Focusing brightness	EV -0.5 - 18 (with the center AF point supporting f/2.8,
range:	One-Shot AF, at room temperature, ISO 100)
Focus operation:	One-Shot AF, AI Servo AF, AI Focus AF,
-	Manual focusing (MF)
AF-assist beam:	Small series of flashes fired by built-in flash

#### Exposure Control

Meterina mode:

63-zone TTL open-aperture metering

- Evaluative metering (linked to all AF points)
- Partial metering (approx. 9.0% of viewfinder at center)
- Spot metering (approx. 4.0% of viewfinder at center)
- Center-weighted average metering EV 1 - 20 (at room temperature, ISO 100)

Metering brightness range:

Shooting mode:

Basic Zone modes:

Scene Intelligent Auto, Flash Off, Creative Auto, Special scene modes (Portrait, Group Photo, Landscape, Sports, Kids, Close-up, Food, Candlelight, Night Portrait, Handheld Night Scene, HDR Backlight Control), Creative filters (Grainy B/W, Soft focus, Fish-eye effect, Water painting effect, Toy camera effect, Miniature effect, HDR art standard, HDR art vivid, HDR art bold, HDR art embossed)

Creative Zone modes: Program AE, Shutter-priority AE, Aperture-priority AE, Manual exposure

ISO speed (Recommended exposure index):	Basic Zone modes: ISO speed set automatically Creative Zone modes: ISO Auto, ISO 100 - ISO 25600 set manually (whole-stop increments), and ISO expansion to H (equivalent to ISO 51200) provided
ISO speed settings: Exposure compensation:	Maximum limit for ISO Auto settable Manual: ±5* stops in 1/3- or 1/2-stop increments * ±3 stops with [Shooting screen: Guided] set AEB: ±2 stops in 1/3- or 1/2-stop increments (can be combined with manual exposure compensation)
AE lock:	Auto: Applied in One-Shot AF with evaluative metering when focus is achieved Manual: With AE lock button
Shutter	
Type: Shutter speed:	Electronically-controlled, focal-plane shutter 1/4000 sec. to 30 sec. (total shutter speed range; available range varies by shooting mode), Bulb, X-sync at 1/200 sec.
Drive System	
Drive mode:	Single shooting, Continuous shooting, Silent single shooting, Silent continuous shooting, 10-sec. self-timer/ remote control*, 2-sec. delay, 10-sec. delay with continuous shooting * When Wireless Remote Control BR-E1 (sold separately) is used.
Continuous shooting speed:	Max. approx. 5.0 shots/sec.* * Max. approx. 3.5 shots/sec. during Live View shooting or when [Servo AF] is set.
Max. burst:	Silent continuous shooting: Max. approx. 2.5 shots/sec. JPEG Large/Fine: Full (Full) RAW: Approx. 6 shots (approx. 6 shots) RAW+JPEG Large/Fine: Approx. 6 shots (approx. 6
	shots)
	* Figures are based on Canon's testing standards (3:2 aspect ratio, ISO 100 and Standard Picture Style) using a Canon's standard testing 8 GB card.
	* Figures in parentheses are the number of shots when a Canon's standard testing UHS-I 16 GB card is used. * "Full" indicates that shooting is possible until the card
	becomes full.

• Flash	
Built-in flash:	Retractable, auto pop-up flash
	Guide No.: Approx. 9.8/32.1 (ISO 100, in meters/feet)
	Flash coverage: Approx. 18mm lens angle of view
	Recharge time: Approx. 3 sec.
External Speedlite:	Compatible with EX-series Speedlites
Flash metering:	E-TTL II autoflash
Flash exposure	±2 stops in 1/3- or 1/2-stop increments
compensation:	
FE lock:	Provided
PC terminal:	Not provided
Flash control:	Built-in flash function settings, external Speedlite function settings, external Speedlite Custom Function settings

### Live View Shooting

Focus method:	Dual Pixel CMOS AF system
AF method:	Face+Tracking, Smooth zone, Live 1-point AF Manual focus (approx. 5x / 10x magnification possible)
AF operation:	One-Shot AF, Servo AF
Focusing brightness range:	EV -2 - 18 (at room temperature, ISO 100, One-Shot AF)
Metering mode:	Evaluative metering (315 zones), Partial metering (approx. 6.0% of Live View screen), Spot metering (approx. 2.6% of Live View screen), Center-weighted average metering
Metering brightness range:	EV 0 - 20 (at room temperature, ISO 100)
Exposure compensation:	±3 stops in 1/3-stop or 1/2-stop increments
Creative filters:	Provided
Touch Shutter:	Provided
Grid display:	Three types
#### Movie Shooting

Recording format:	MP4	
	* Time-lapse movie shooting: MOV	
Movie:	MPEG-4 AVC / H.264	
	Variable (average) bit rate	
Audio:	AAC	
Recording size and frame rate:	Full HD (1920x1080): 59.94p/50.00p/29.97p/25.00p/ 23.98p	
	HD (1280x720) : 59.94p/50.00p/29.97p/25.00p	
	VGA (640x480) : 29.97p/25.00p	
Compression method:	IPB (Standard), IPB (Light)	
	* Time-lapse movie shooting: ALL-I	
Bit rate:	Full HD (59.94p/50.00p)/IPB (Standard)	
		: Approx. 60 Mbps
	Full HD (29.97p/25.00p/23.98p)/IPB	(Standard)
		: Approx. 30 Mbps
	Full HD (29.97p/25.00p)/IPB (Light)	: Approx. 12 Mbps
	HD (59.94p/50.00p)/IPB (Standard)	
	HD (29.97p/25.00p)/IPB (Light)	: Approx. 4 Mbps
	VGA (29.97p/25.00p) (Standard)	: Approx. 9 Mbps
	VGA (29.97p/25.00p) (Light)	: Approx. 3 Mbps
	HDR movie	: Approx. 30 Mbps
	Time-lapse movie	: Approx. 90 Mbps
Focus system:	Dual Pixel CMOS AF system	
AF method:	Face+Tracking, Smooth zone, Live 1	-point AF
	Manual focus (approx. 5x / 10x magn	ification available
	for focus check)	
Movie Servo AF:	Provided	
Digital zoom:	Approx. 3x - 10x	
Focusing brightness range:	EV -2 - 18 (at room temperature, ISO 100, One-Shot AF)	
Metering mode:	Center-weighted average and Evaluative metering with the image sensor	
	* Automatically set by the AF method	

#### Specifications

Metering brightness range: Exposure control:	EV 0 - 20 (at room temperature, ISO 100, with center- weighted average metering) Autoexposure shooting (Program AE for movie shooting) and manual exposure
Exposure compensation:	±3 stops in 1/3- or 1/2-stop increments
ISO speed	For autoexposure shooting: ISO 100 - ISO 12800 set
(Recommended exposure index):	automatically. In Creative Zone modes, the upper limit is expandable to H (equivalent to ISO 25600).
	For manual exposure shooting: ISO Auto (ISO 100 - ISO 12800 set automatically), ISO 100 - ISO 12800 set manually (whole-stop increments), expandable to H (equivalent to ISO 25600)
ISO speed settings:	Maximum limit for ISO Auto settable
HDR movie shooting:	Possible
Creative filters for movies:	Dream, Old Movies, Memory, Dramatic B&W, Miniature effect movie
Video snapshots:	Settable to 2 sec., 4 sec., 8 sec.
Sound recording:	Built-in stereo microphones, external stereo microphone terminal provided
	Sound-recording level adjustable, wind filter provided, attenuator provided
Grid display:	Three types
Time-lapse movie:	Shooting interval (hours:minutes:seconds), Number of shots, Auto exposure (Fixed 1st frame, Each frame), LCD auto off, Beep as image shot settable
Still photo shooting:	Not possible during movie shooting
LCD Monitor	
Type:	TFT color, liquid-crystal monitor
Monitor size and dots	Wide 7.7 cm $(3.0 \text{ in})$ $(3.2)$ with approx 1.04 million dots

Monitor size and dots: Brightness adjustment: Interface languages: Touch screen technology:

TFT color, liquid-crystal monitor Wide 7.7 cm (3.0 in) (3:2) with approx. 1.04 million dots Manual (7 levels) 25 Capacitive sensing

#### Playback

Image display format:	Single-image display (without shooting information), Single-image display (with basic information), Single- image display (Shooting information displayed: Detailed information, Lens/histogram, White balance, Picture Style 1, Picture Style 2, Color space/noise reduction, Lens aberration correction), Index display (4/9/36/100 images)	
Highlight alert:	Overexposed highlights blink	
AF point display:	Provided (may not be displayed depending on shooting conditions)	
Zoom magnification ratio:	Approx. 1.5x - 10x	
Image search:	Search conditions settable (Rating, Date, Folder, Protect, File type)	
Image browsing	Single image, 10 images, specified number, date, folder,	
methods:	movies, stills, protect, rating	
Image rotation:	Provided	
Image protection:	Provided	
Rating:	Provided	
Movie playback:	Possible (LCD monitor, HDMI), built-in speaker	
Slide show:	Automatically play back all images or the images that match search conditions	
Background music:	Selectable for slide shows and movie playback	
Post-Processing of Images		
Creative filters:	Grainy B/W, Soft focus, Fish-eye effect, Art bold effect,	
	Water painting effect Toy camera effect Miniature effect	

Resize: Cropping: Water painting effect, Toy camera effect, Miniature effect Provided Provided

#### Print Ordering

DPOF:

Version 1.1 compliant

#### Customization Features

Custom Functions: My Menu: Copyright information: Display level settings:	11 Up to 5 screens can be registered Text entry and appending possible Shooting screen, Menu display, Mode guide, Feature guide
Interface	
DIGITAL terminal:	Computer communication (Hi-Speed USB equivalent), Connect Station CS100 connection
HDMI mini OUT terminal:	Type C (Auto switching of resolution), CEC-compatible
terminal: Remote control terminal	3.5 mm diameter stereo mini-jack Directional Stereo Microphone DM-E1 connection For Remote Switch RS-60E3
Wireless remote control	: Compatible with Wireless Remote Control BR-E1 (Bluetooth connection)
Eye-Fi card:	Supported
Power	
Battery:	Battery Pack LP-E17 (Quantity 1) * AC power usable with household power outlet accessories.
Number of possible shots:	With viewfinder shooting: Approx. 650 shots at room temperature $(23^{\circ}C/73^{\circ}F)$ , approx. 620 shots at low temperatures $(0^{\circ}C/32^{\circ}F)$
	With Live View shooting: Approx. 260 shots at room temperature (23°C/73°F), approx. 240 shots at low temperatures (0°C/32°F) * With a fully-charged Battery Pack LP-E17
Movie shooting time:	Approx. 2 hr. at room temperature (23°C/73°F) Approx. 1 hr. 45 min. at low temperatures (0°C/32°F) * With a fully-charged Battery Pack LP-E17

#### Dimensions and Weight

 

 Dimensions (W x H x D):Approx. 122.4 x 92.6 x 69.8 mm / 4.82 x 3.65 x 2.75 in.

 Weight (Black):
 Approx. 453 g / 15.98 oz. (Including battery and card) Approx. 406 g / 14.32 oz. (Body only)

 Weight (Silver):
 Approx. 454 g / 16.01 oz. (Including battery and card) Approx. 407 g / 14.36 oz. (Body only)

 Weight (White):
 Approx. 456 g / 16.08 oz. (Including battery and card) Approx. 409 g / 14.33 oz. (Body only)

#### Operation Environment

 Working temperature
 0°C - 40°C / 32°F - 104°F

 range:
 Working humidity:

 85% or less

- All the data above is based on Canon's testing standards and CIPA (Camera & Imaging Products Association) testing standards and guidelines.
- Dimensions and weight listed above are based on CIPA Guidelines (except weight for camera body only).
- Product specifications and the exterior are subject to change without notice.
- If a problem occurs with a non-Canon lens attached to the camera, consult the respective lens manufacturer.

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#### • expat.h

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#### Digital Camera Model DS126671 Systems

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

- Note: This equipment has been tested and found to comply with the limits for class B digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
  - Reorient or relocate the receiving antenna.
  - Increase the separation between the equipment and receiver.
  - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.

The cable with the ferrite core provided with the digital camera must be used with this equipment in order to comply with Class B limits in Subpart B of Part 15 of the FCC rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

Canon U.S.A. Inc. One Canon Park, Melville, NY 11747, U.S.A. Tel No. 1-800-OK-CANON (1-800-652-2666)

CAN ICES-3 (B) / NMB-3 (B)



USA and Canada only:

The Lithium ion/polymer battery that powers the product is recyclable. Please call 1-800-8-BATTERY for information on how to recycle this battery.

For CA, USA only

Included lithium battery contains Perchlorate Material – special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate/ for details.

#### CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO LOCAL REGULATION.

# Software Start Guide /

## Downloading Images to a Computer

This chapter describes the following:

- Overview of the software for EOS DIGITAL cameras
- How to download and install the software on a computer
- How to download and view the Software Instruction Manuals (PDF files)
- How to download images from the camera to a computer

#### Software Start Guide

#### **Software Overview**

This section describes an overview of various software applications for EOS DIGITAL cameras. An Internet connection is required to download and install the software. Download and installation are not possible in environments with no Internet connection.

#### **EOS Utility**

With the camera connected to a computer, EOS Utility enables you to transfer still photos and movies shot with the camera to the computer. You can also use this software to set various camera settings and shoot remotely from the computer connected to the camera. Also, you can copy background music tracks, such as EOS Sample Music\*, to the card.

\* You can use the background music as the soundtrack for a video snapshot album, movie, or slide show played back with your camera.

#### **Digital Photo Professional**

This software is recommended for users who shoot RAW images. You can view, edit, and print RAW and JPEG images.

\* Certain functions differ between the version to be installed on a 64-bit computer and that to be installed on a 32-bit computer.

#### **Picture Style Editor**

You can edit Picture Styles, and create and save original Picture Style files. This software is aimed at advanced users who are experienced in image processing.

#### **Map Utility**

Although this camera does not have GPS features built-in, you can geotag images on the camera with GPS information recorded on a smartphone using the dedicated Camera Connect application and display the information on a map on a computer.

#### Downloading and Installing the Software

Do not connect the camera to a computer before you install the software. The software will not be installed correctly.

 Even if a previous version of the software is installed on your computer, follow the procedure below to install the latest version. (The previous version will be overwritten.)

#### Download the software.

 Connect to the Internet from a computer and access the following Canon Web site.

#### www.canon.com/icpd

- Select your country or region of residence and download the software.
- Decompress it on the computer.

For Windows: Click the displayed installer file to start the installer.

For Macintosh: A dmg file will be created and displayed. Follow the steps below to start the installer.

- (1) Double-click the dmg file.
  - A drive icon and installer file will appear on the desktop. If the installer file does not appear, double-click the drive icon to display it.
- (2) Double-click the installer file.
  - The installer starts.

#### **2** Follow the on-screen instructions to install.

# Downloading and Viewing the Software Instruction Manuals (PDF Files)

Internet connection is required to download the Software Instruction Manuals (PDF files). Download is not possible in environments with no Internet connection.

- **1** Download the Software Instruction Manuals (PDF files).
  - Connect to the Internet and access the following Canon Web site.
     www.canon.com/icpd

#### f 2 View the Software Instruction Manuals (PDF files).

- Double-click a downloaded Instruction Manual (PDF file) to open it.
- To view the Instruction Manuals (PDF files), Adobe Acrobat Reader DC or other Adobe PDF viewer (most recent version recommended) is required.
- Adobe Acrobat Reader DC can be downloaded for free from the Internet.
- To learn how to use PDF viewing software, refer to the software's Help section.

#### Downloading Images to a Computer

You can use EOS software to download images from the camera to a computer. There are two ways to do this.

#### Downloading by Connecting the Camera to the Computer





Install the software (p.445).

- Use an interface cable (sold separately) to connect the camera to the computer.
- Connect the cord's plug to the computer's USB terminal.
- Use EOS Utility to transfer the images.
  - Refer to the EOS Utility Instruction Manual.



When a Wi-Fi connection is established, the camera cannot be connected to a computer with an interface cable.

#### **Downloading Images with a Card Reader**

You can use a card reader to download images to a computer.

Install the software (p.445).



Insert the card into the card reader.

Use Digital Photo Professional to download the images.

 Refer to the Digital Photo Professional Instruction Manual.

When downloading images from the camera to a computer with a card reader without using EOS software, copy the DCIM folder on the card to the computer.

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### Canon

The descriptions in this Instruction Manual are current as of March 2017. For information on the compatibility with any products introduced after this date, contact any Canon Service Center. For the latest version Instruction Manual, refer to the Canon Web site.

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