

Canon

EOS 1100D



The "Software Start Guide" and "Quick Reference Guide" are provided at end of this manual.

ENGLISH
INSTRUCTION
MANUAL

Introduction

The 1100D is a high-performance, digital single-lens reflex camera featuring a fine-detail CMOS sensor with approx. 12.2 effective megapixels, DIGIC 4, high-precision and high-speed 9-point AF, approx. 3 fps continuous shooting, Live View shooting, and High-Definition (HD) movie shooting.

The camera is highly responsive for shooting at anytime, provides many functions fitted for advanced shooting, and offers many other features.

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

With a digital camera, you can immediately view the image you have captured. While reading this manual, take a few test shots and see how they come out. You can then better understand the camera. To avoid botched pictures and accidents, first read the “Safety Warnings” (p.259, 260) and “Handling Precautions” (p.14, 15).

Testing the Camera Before Use and Liability

After shooting, playback and check whether the images 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 of people and certain subjects for anything but private enjoyment. Also be aware that certain public performances, exhibitions, etc., may prohibit photography even for private enjoyment.

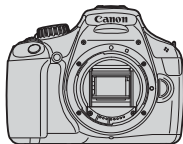


This camera is compatible with SD memory cards, SDHC memory cards, and SDXC memory cards. This manual will refer to all these cards as just “card.”

*** The camera does not come with a card for recording images.**
Please purchase it separately.

Item Check List

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



Camera
(with eyecup and body cap)



**Battery Pack
LP-E10**
(with protective cover)



**Battery Charger
LC-E10/LC-E10E***



**Wide Strap
EW-200D**



Interface Cable



**EOS Camera
Instruction
Manuals Disk**
(DVD-ROM)



EOS Solution Disk
(Software CD-ROM)



**Camera
Basic Instruction Manual**

* Battery Charger LC-E10 or LC-E10E is provided. (The LC-E10E comes with a power cord.)

- If you purchased a Lens Kit, check that the lens is included.
- Be careful not to lose any of the above items.

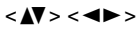
EOS Camera Instruction Manuals Disk

The Camera Instruction Manual and the Software Instruction Manuals are on the DVD-ROM as PDF files. See page 267 for instructions on using the EOS Camera Instruction Manuals Disk.



Conventions Used in this Manual

Icons in this Manual

-  : Indicates the Main Dial.
-  : Indicates the <⬆⬇⬅⬅> cross keys.
-  : Indicates the setting button.
-  4,  6,  10,  16 : Indicates that the respective function remains active for 4 sec., 6 sec., 10 sec., or 16 sec. respectively after you let go of the button.

* In this manual, the icons and markings indicating the camera's buttons, dials, and settings correspond to the icons and markings on the camera and on the LCD monitor.

- MENU** : Indicates a function which can be changed by pressing the <MENU> button and changing the setting.
- ★ : If shown on the upper right of the page, it indicates that the function is available only in the Creative Zone modes (p.22).
- (p.**): Reference page numbers for more information.
-  : Tip or advice for better shooting.
- ?: Problem-solving advice.
-  : Warning to prevent shooting problems.
-  : Supplemental information.

Basic Assumptions

- All operations explained in this manual assume that the power switch has already been set to <ON> (p.31).
- It is assumed that all the menu settings and Custom Functions are set to the default.
- For explanatory purposes, the instructions show the camera attached with an EF-S 18-55mm f/3.5-5.6 IS II lens.

Chapters

For first-time DSLR users, Chapters 1 and 2 explain the camera's basic operations and shooting procedures.

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- **Shoot continuously** → **p.86** (Continuous shooting)
- **Take a picture of yourself in a group** → **p.87** (Self-timer)
- **Freeze the action** → **p.92** (Tv Shutter-priority AE)
- **Blur the action**
- **Blur the background** → **p.55** (CA Creative Auto)
- **Keep the background in sharp focus** **p.94** (Av Aperture-priority AE)
- **Adjust the image brightness (exposure)** → **p.101** (Exposure compensation)
- **Shoot in low light** → **p.50, 88** (Flash photography)
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- **Shoot without flash** → **p.54** (Flash Off)
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- **Photograph fireworks at night** → **p.98** (Bulb exposure)
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- **Shoot with image effects matching the subject** → **p.79** (Selecting a Picture Style)
- **Make a large-size print of the picture** → **p.74** (L, L, RAW)





- **Take many pictures** → **p.74** (▲ S1, ▲ S1, S2, S3)

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- **Search for pictures quickly** → **p.176** (☒ Index display)
→ **p.177** (📄 Image browsing)
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- **Delete unnecessary images** → **p.196** (🗑 Delete)
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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 your nearest Canon Service Center. Wipe off any water droplets with a dry cloth. If the camera has been exposed to salty air, wipe it with a 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.
- Use a blower to blow away dust on the lens, viewfinder, reflex mirror, and focusing screen. 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 misoperation.
- 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 the 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 corrosive chemicals such as a darkroom or 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 coming up, have the camera checked by your Canon dealer or check the camera yourself and make sure it is working properly.

LCD Monitor

- Although the LCD monitor is manufactured with very high precision technology with over 99.99% effective pixels, there might be a few dead pixels among the remaining 0.01% or less pixels. Dead pixels displaying only black or red, etc., 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.
- In low or high temperatures, the LCD monitor display may seem slow or it might look black. 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 store or use the card near anything having a strong magnetic field such as a TV set, speakers, or magnet. 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.

Lens

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

Cautions During Prolonged Use

If you use continuous shooting, Live View shooting, or movie shooting for a prolonged period, the camera may become hot. Although this is not a malfunction, holding the hot camera for a long period can cause slight skin burns.

Contacts

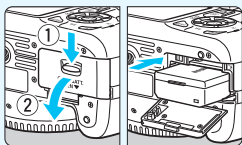


About smudges adhering to the front of the sensor

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 visible spots remain on the image, having the sensor cleaned by a Canon Service Center is recommended.

Quick Start Guide

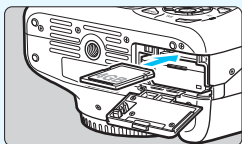
1



Insert the battery. (p.28)

- To charge the battery, see page 26.

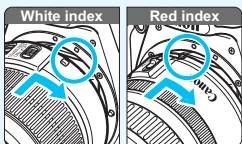
2



Insert the card. (p.28)

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

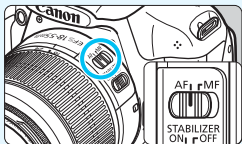
3



Attach the lens. (p.35)

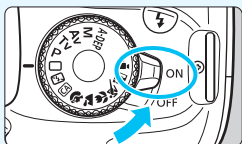
- Align the lens' white or red index with the camera's index in the matching color.

4



Set the lens focus mode switch to <AF>. (p.35)

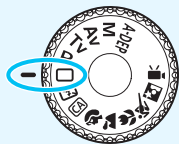
5



Set the power switch to <ON>. (p.31)

- When the LCD monitor displays the Date/Time setting screen, see page 33.

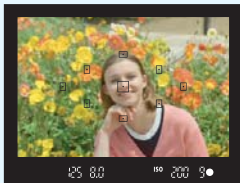
6



Set the Mode Dial to <[Full Auto]> (p.50)

- All the necessary camera settings will be set automatically.

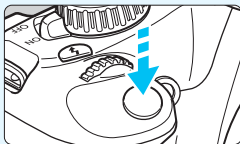
7



Focus the subject. (p.39)

- Look through the viewfinder and aim the viewfinder center over the subject.
- Press the shutter button halfway, and the camera will focus the subject.
- If necessary, the built-in flash will pop-up automatically.

8



Take the picture. (p.39)

- Press the shutter button completely to take the picture.

9

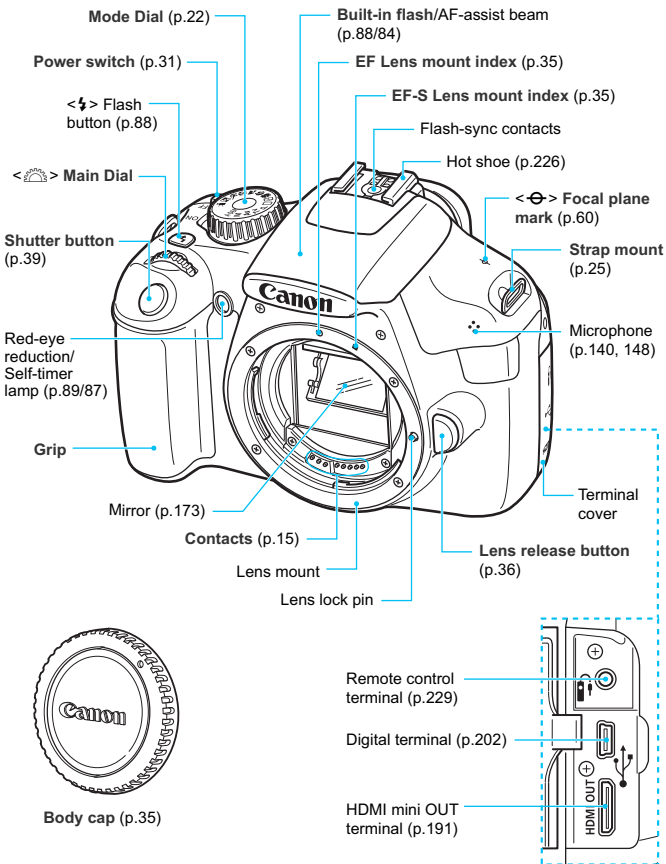


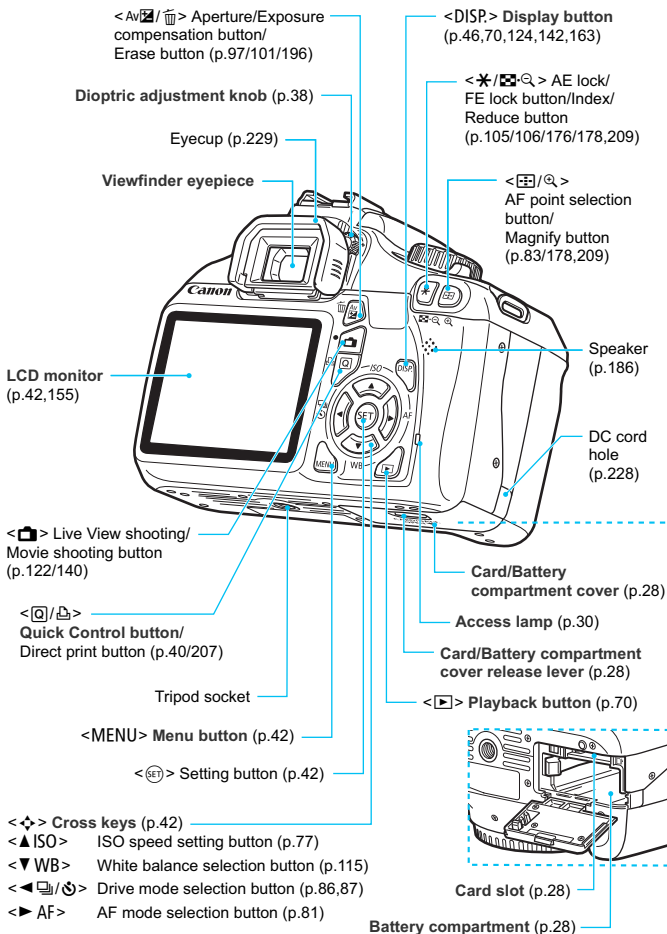
Review the picture. (p.154)

- The captured image will be displayed for approx. 2 sec. on the LCD monitor.
- To display the image again, press the <[playback]> button (p.70).
- To shoot while looking at the LCD monitor, see “Live View Shooting” (p.121).
- To view the images captured so far, see “Image Playback” (p.70).
- To delete an image, see “Erasing Images” (p.196).

Nomenclature

The names in **bold** indicate the parts mentioned up until the “Basic Shooting and Image Playback” section.





Shooting Settings Display (in Creative Zone modes, p.22)

Main Dial pointer (p.91)

Shooting mode

Exposure level indicator

Exposure compensation amount (p.101)

AEB range (p.103)

Picture Style (p.79)

AF mode (p.81)

ONE SHOT
One-Shot AF

AI FOCUS
AI Focus AF

AI SERVO
AI Servo AF

MF
Manual Focusing

Quick Control icon (p.40,63)

White balance (p.115)

AWB Auto

Daylight

Shade

Cloudy

Tungsten light

White fluorescent light

Flash

Custom

Battery check (p.32)

Drive mode (p.86,87)

☐ **Single shooting**

☒ **Continuous shooting**

Self-timer:10 sec

Self-timer:2 sec

Self-timer:Continuous

Shutter speed

Aperture

Auto Lighting Optimizer (p.107)

ISO speed (p.77)

Highlight tone priority (p.220)

Flash exposure compensation (p.102)

External flash exposure compensation

Raise built-in flash (p.41)

Image-recording quality (p.74)

Large/Fine

Large/Normal

Medium/Fine

Medium/Normal

Small 1/Fine

Small 1/Normal

Small 2 (Fine)

Small 3 (Fine)

RAW

RAW + Large/Fine

Number of possible shots

Number of possible shots during WB bracketing

Self-timer countdown

White balance correction (p.117)

White balance bracketing (p.118)

Metering mode (p.100)

☒ **Evaluative metering**

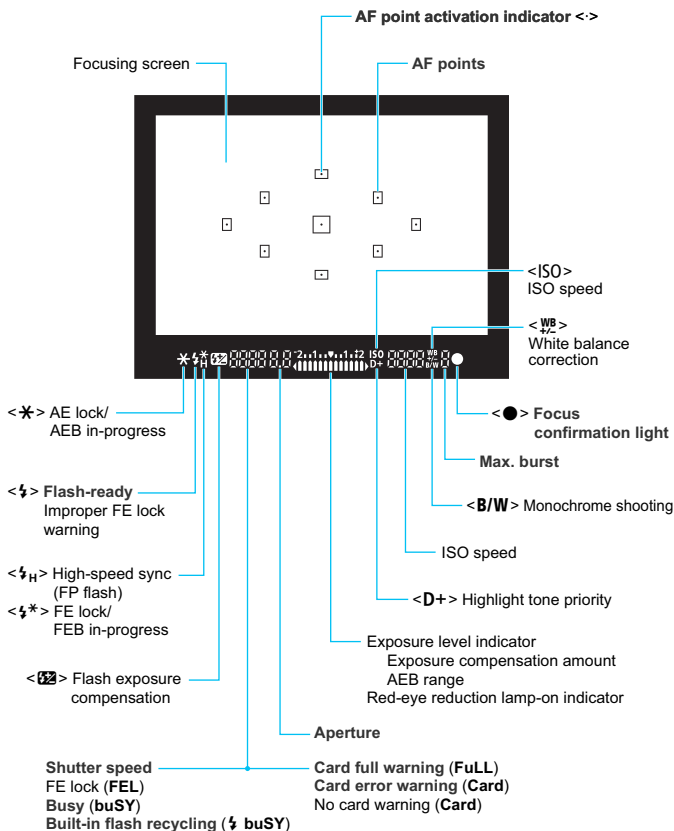
☒ **Partial metering**

☐ **Center-weighted average metering**

Eye-Fi transmission status (p.230)
(Displayed if an Eye-Fi card is used.)

The display will show only the settings currently applied.

Viewfinder Information



The display will show only the settings currently applied.

Mode Dial

The Mode Dial includes the Basic Zone modes, Creative Zone modes, and the Movie shooting mode.

Creative Zone

These modes give you more control for shooting various subjects.

- P** : Program AE (p.72)
- Tv** : Shutter-priority AE (p.92)
- Av** : Aperture-priority AE (p.94)
- M** : Manual exposure (p.97)
- A-DEP** : Automatic depth-of-field AE (p.99)

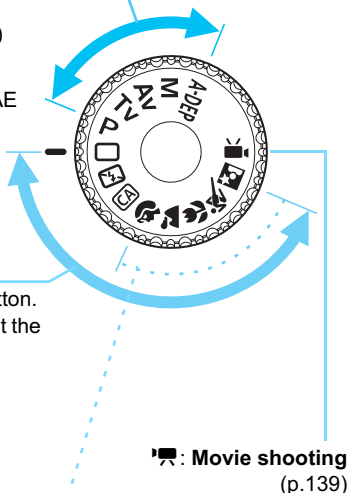
Basic Zone

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

-  **Full Auto** (p.50)
-  **Flash Off** (p.54)
-  **Creative Auto** (p.55)

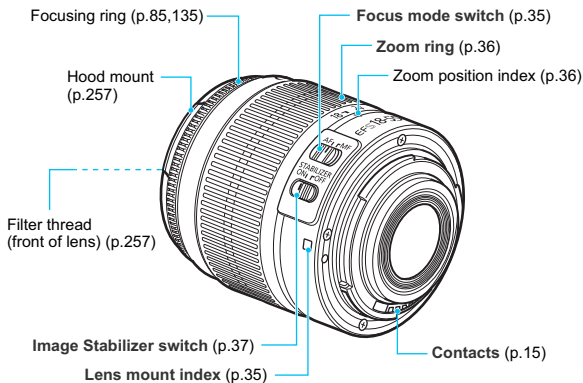
Image Zone

-  : Portrait (p.58)
-  : Landscape (p.59)
-  : Close-up (p.60)
-  : Sports (p.61)
-  : Night Portrait (p.62)



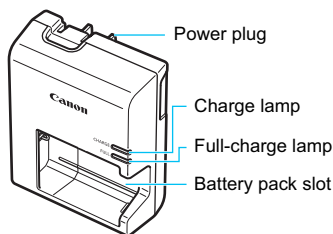
Lens

Lens without a distance scale



Battery Charger LC-E10

Charger for Battery Pack LP-E10 (p.26).



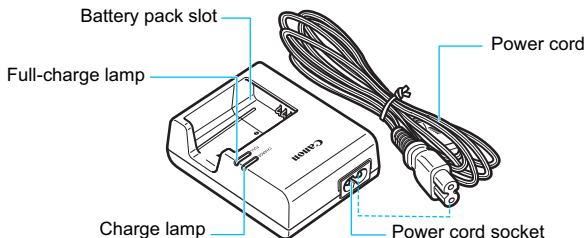
This power unit is intended to be correctly orientated in a vertical or floor mount position.

**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.

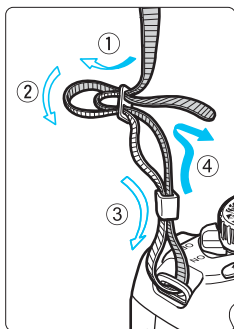
Battery Charger LC-E10E

Charger for Battery Pack LP-E10 (p.26).



Getting Started

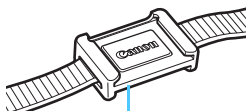
This chapter explains preparatory steps before you start shooting and basic camera operations.



Attaching the Strap

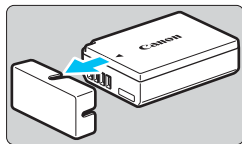
Pass the end of the strap through the camera's strap mount eyelet from the bottom. Then pass it through the strap's buckle as shown in the illustration. Pull the strap to take up any slack and make sure the strap will not loosen from the buckle.

- The eyepiece cover is also attached to the strap (p.229).



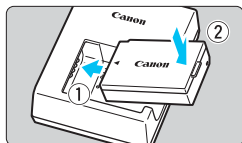
Eyepiece cover

Charging the Battery



1 Remove the protective cover.

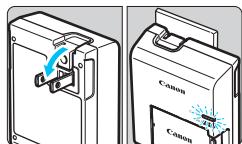
- Detach the protective cover provided with the battery.



2 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.

LC-E10

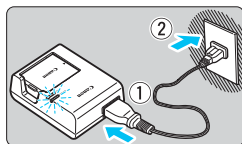


3 Recharge the battery.

For LC-E10

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

LC-E10E



For LC-E10E

- Connect the power cord to the charger and insert the plug into the power outlet.
- ▶ Recharging starts automatically and the charge lamp turns orange.
- ▶ When the battery is fully recharged, the full-charge lamp will turn green.
- It takes approx. 2 hours to fully recharge a completely exhausted battery at 23°C / 73°F. The time required to recharge the battery depends on the ambient temperature and the battery's charge level.
- For safety reasons, recharging in low temperatures (6°C - 10°C / 43°F - 50°F) will take a longer time (up to 4 hours).



Tips for Using the Battery and Charger

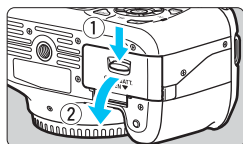
- **Upon purchase, the battery is not fully charged.**
Recharge the battery before using.
 - **Recharge the battery on the day before or on the day it is to be used.**
Even during storage, a charged battery will gradually drain and lose its power.
 - **After recharging the battery, detach it and unplug 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 is released, resulting in excess discharge and shorter battery life. Store the battery with the protective cover (provided) attached. Storing the battery after it is fully charged can lower the battery's 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 can damage the battery charger.
 - **If the battery becomes exhausted quickly even after being fully charged, the battery has reached the end of its service life.**
Purchase a new battery.
- 
 - After disconnecting the charger's power plug, do not touch the prongs for at least 3 sec.
 - Do not charge any battery other than a Battery Pack LP-E10.
 - The Battery Pack LP-E10 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-E10 into the camera. The card (sold separately) can be an SD, SDHC, or SDXC memory card. The captured images are recorded onto the card.

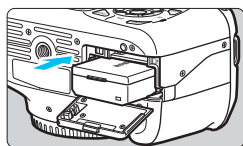
-  **Make sure the card's write-protect switch is set upward to enable writing/erasing.**

Installing the Battery/Card



1 Open the cover.

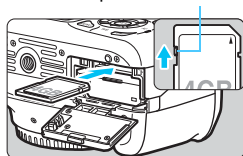
- Slide the lever as shown by the arrows and open the cover.



2 Insert the battery.

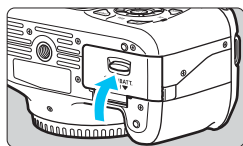
- Insert the end with the battery contacts.
- Insert the battery until it locks in place.

Write-protect switch



3 Insert the card.

- As shown in the illustration, face the card's label side toward the camera back.
- Insert the card straight in all the way.



4 Close the cover.

- Press the cover until it snaps shut.
- When you set the power switch to <ON>, the number of possible shots (p.32) will be displayed on the LCD monitor.



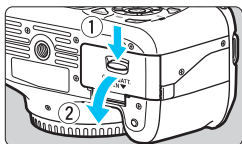
After opening the card/battery compartment cover, be careful not to push it back further. Otherwise, the hinge might break.



- The number of possible shots depends on the remaining capacity of the card, image-recording quality, ISO speed, etc.
- Setting [📷 Release shutter without card] to [Disable] will prevent you from forgetting to insert a card (p.154).

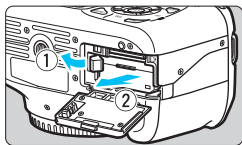
Removing the Battery/Card

- 1 Set the power switch to <OFF>. (p.31)



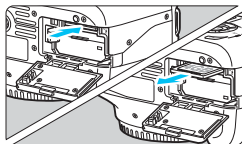
- 2 Open the cover.

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



- 3 Remove the battery.

- Press the battery release lever as shown by the arrow and remove the battery.
- To prevent short circuiting of the battery contacts, be sure to attach the protective cover (provided, p.26) to the battery.



- 4 Remove the card.

- Gently push in the card, then let go. The card will stick out.
- Pull the card straight out.

- 5 Close the cover.

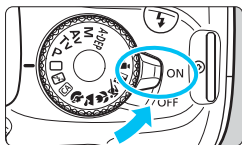
- Press the cover until it snaps shut.



- **When the access lamp is lit or blinking, it indicates that images are being written to or read by the card, being erased, or data is being transferred. When the access lamp is lit or blinking, do not open the card/battery compartment cover and never do any of the following. Otherwise, the image data may be destroyed or the card or camera may be damaged.**
 - **Removing the card.**
 - **Removing the battery.**
 - **Shaking or banging the camera around.**
- If the card already contains recorded images, the image number might not start from 0001 (p.158).
- Do not touch the card's contacts with your fingers or metal objects.
- 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 all the images on the card to a computer, transfer all the images and then format the card with the camera (p.44). The card may then return to normal.

Turning on the Power

If the date/time setting screen appears when you turn on the power switch, see page 33 to set the date/time.



<ON> : The camera turns on.

<OFF> : The camera turns off and does not operate. Set to this position when not using the camera.

MENU About Auto Power Off

- To save battery power, the camera turns off automatically after about 30 seconds of non-operation. To turn on the camera again, just press the shutter button halfway (p.39).
- You can change the auto power-off time with [**Auto power off**] (p.155).



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 card finishes recording the image.

Checking the Battery Level

When the power switch is set to <ON>, the battery level will be indicated in one of four levels:



 : Battery level is OK.

 : Battery level is less than half full.

 : Battery will be exhausted soon. (Blinks)

 : Battery must be recharged.

Battery Life

Temperature	At 23°C / 73°F	At 0°C / 32°F
No Flash	Approx. 800 shots	Approx. 750 shots
50% Flash Use	Approx. 700 shots	Approx. 650 shots

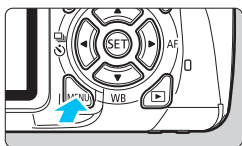
- The figures above are based on a fully-charged Battery Pack LP-E10, no Live View shooting, and CIPA (Camera & Imaging Products Association) testing standards.



- The number of possible shots will decrease with any of the following operations:
 - Pressing the shutter button halfway for a prolonged period.
 - Often activating only the AF without taking a picture.
 - Using the LCD monitor often.
 - Using the lens Image Stabilizer.
- The lens operation is powered by the camera's battery. Depending on the lens used, the number of possible shots may be lower.
- For the number of possible shots with Live View shooting, see page 123.

MENU Setting the Date and Time

When you turn on the power for the first time or if the date/time has been reset, the Date/Time setting screen will appear. Follow steps 3 and 4 to set 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.**



1 Display the menu screen.

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



2 Under the [Date/Time] tab, select [Date/Time].

- Press the <◀▶> key to select the [Date/Time] tab.
- Press the <▲▼> key to select [Date/Time], then press <SET>.



3 Set the date and time.

- Press the <◀▶> key to select the date or time number.
- Press <SET> so <⏸> is displayed.
- Press the <▲▼> key to set the number, then press <SET>. (Returns to □.)

4 Exit the setting.

- Press the <◀▶> key to select [OK], then press <SET>.
- ▶ The date/time will be set.

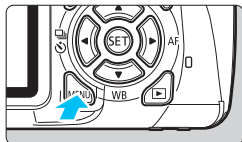


If you store the camera without the battery or if the camera's battery becomes exhausted, the date/time might be reset. If this happens, set the date/time again.



The date/time set will start from when you press <SET> in step 4.

MENU Selecting the Interface Language



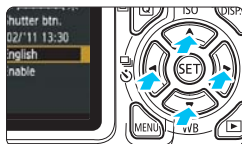
1 Display the menu screen.

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



2 Under the [F] tab, select [Language].

- Press the <◀▶> key to select the [F] tab.
- Press the <▲▼> key to select [Language] (the fourth item from the top), then press <SET>.

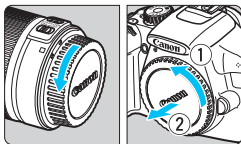


3 Set the desired language.

- Press the <◀▶> key to select the language, then press <SET>.
- ▶ The interface language will change.

Attaching and Detaching a Lens

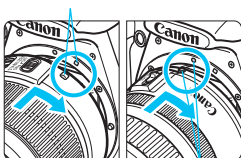
Attaching a Lens



1 Remove the caps.

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

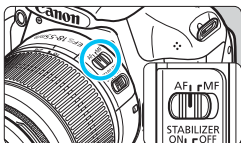
White index



Red index

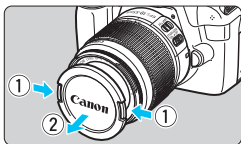
2 Attach the lens.

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



3 On the lens, set the focus mode switch to <AF> (autofocus).

- If it is set to <MF> (manual focus), autofocus will not operate.

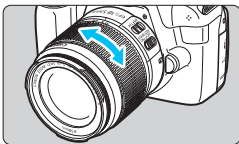


4 Remove the front lens cap.

Minimizing Dust

- When changing lenses, do it 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.

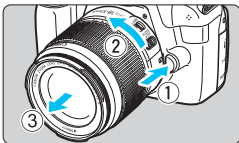
About Zooming



To zoom, turn the zoom ring on the lens with your fingers.

If you want to zoom, do it before focusing. Turning the zoom ring after achieving focus may throw off the focus slightly.

Detaching the Lens



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

- 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.
- If the front part (focusing ring) of the lens rotates during autofocus, do not touch the rotating part.



Image Conversion Factor

Since the image sensor size is smaller than the 35mm film format, it will look like the lens focal length is increased by approx. 1.6x.

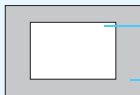


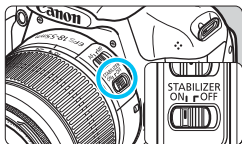
Image sensor size (Approx.)
(22.0 x 14.7mm / 0.87 x 0.58 in.)

35mm image size
(36 x 24 mm / 1.42 x 0.94 in.)

About the Lens Image Stabilizer

When you use the IS lens' built-in Image Stabilizer, camera shake is corrected to obtain a sharper shot. The procedure explained here is based on the EF-S 18-55mm f/3.5-5.6 IS II lens as an example.

* IS stands for Image Stabilizer.



- 1 Set the IS switch to <ON>.**
 - Set also the camera's power switch to <ON>.
- 2 Press the shutter button halfway.**
 - ▶ The Image Stabilizer will operate.
- 3 Take the picture.**
 - When the picture looks steady in the viewfinder, press the shutter button completely to take the picture.



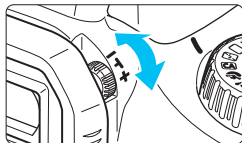
- The Image Stabilizer may not be effective if the subject moves at the time of exposure.
- The Image Stabilizer may not be effective for excessive shaking such as on a rocking boat.



- The Image Stabilizer can operate with the focus mode switch set to either <AF> or <MF>.
- If the camera is mounted on a tripod, you can save battery power by switching the IS switch to <OFF>.
- The Image Stabilizer is effective even when the camera is mounted on a monopod.
- Some IS lenses enable you to switch the IS mode manually to suit the shooting conditions. However, the EF-S 18-55mm f/3.5-5.6 IS II switches the IS mode automatically.

Basic Operation

Adjusting the Viewfinder Clarity



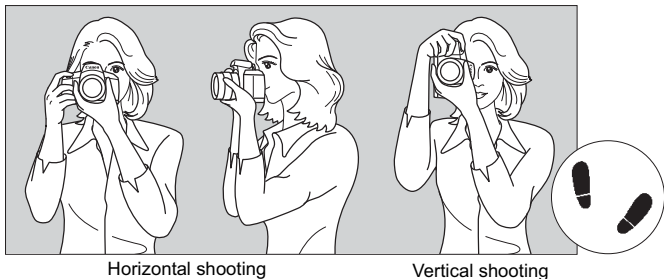
Turn the dioptic adjustment knob.

- Turn the knob left or right until the nine AF points in the viewfinder look sharp.

 If the camera's dioptic adjustment still cannot provide a sharp viewfinder image, using Dioptic Adjustment Lens E (10 types, sold separately) is recommended.

Holding the Camera

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



Horizontal shooting

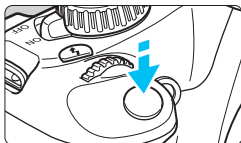
Vertical shooting

1. Wrap your right hand around the camera grip firmly.
2. Hold the lens bottom with your left hand.
3. Press the shutter button lightly with your right hand's index finger.
4. Press your arms and elbows lightly against the front of your body.
5. To maintain a stable stance, place one foot in front 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 121.

Shutter Button

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

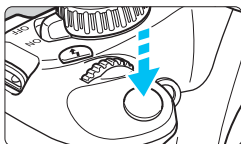


Pressing halfway

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

The exposure setting (shutter speed and aperture) is displayed in the viewfinder (ⓘ4).

While you press the shutter button halfway, the LCD monitor will turn off (p.166).



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:

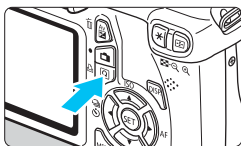
- Hold and steady the camera as shown on the previous page.
- Press the shutter button halfway to autofocus, then slowly press the shutter button completely.



- 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 the menu display, image playback, and image recording, you can instantly go back to shooting-ready by pressing the shutter button halfway.

Q Quick Control for Shooting Functions

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



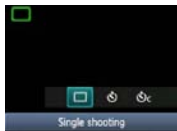
1 Press the <Q> button.

- ▶ The Quick Control screen will appear (010).

2 Set the desired function.

- Press the <◀▶> key to select the function to be set.
- ▶ The selected function and Feature guide (p.47) will be displayed.
- Turn the <◀▶> dial to change the setting.

Basic Zone modes



Creative Zone modes

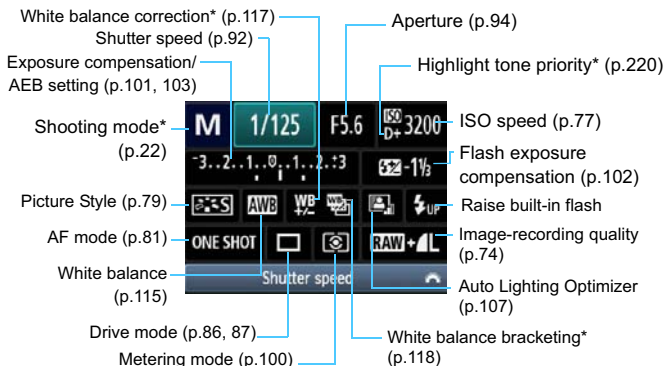


3 Take the picture.

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

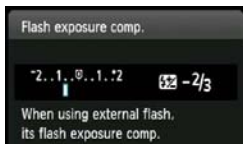
 For the functions settable in Basic Zone modes and the setting procedure, see page 63.

Settable Functions on Quick Control Screen



- Asterisked functions cannot be set with the Quick Control screen.
- When you select <Flash up> and press <SET>, the built-in flash will pop-up.

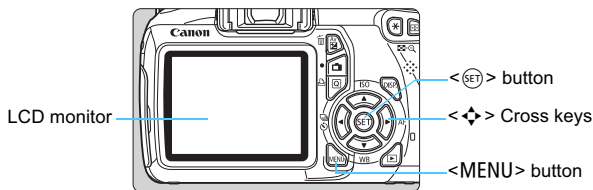
Function Setting Screen



- Select the desired function and press <SET>. The function's setting screen will appear.
- Press the <◀▶> key or turn the <Wheel> dial to change the setting. There are also functions to be set with the <DISP.> button.
- Press <SET> to finalize the setting and to return to the Quick Control screen.

MENU Menu Operations

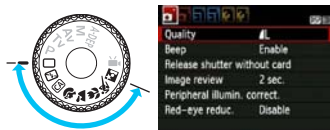
With menus, you can set various functions such as the image-recording quality, date/time, etc. While looking at the LCD monitor, use the <MENU> button, <⬆> cross keys, and <SET> button on the camera back to operate the menus.



Menu Screen

In the Basic Zone, Movie shooting mode, and Creative Zone, the tabs and menu options displayed will be different.

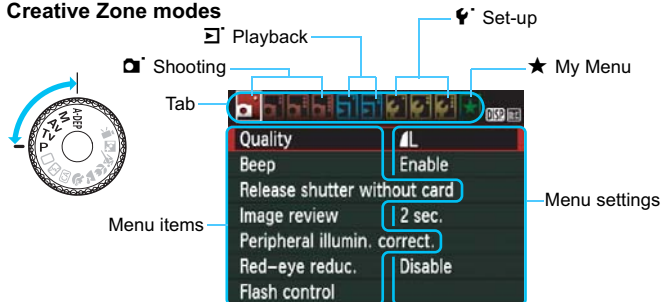
Basic Zone modes



Movie shooting mode



Creative Zone modes

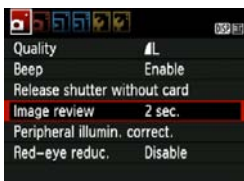


Menu Setting Procedure



1 Display the menu screen.

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



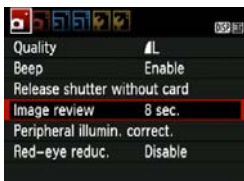
2 Select a tab.

- Press the <◀▶> key to select a menu tab.



3 Select the desired item.

- Press the <▲▼> key to select the item, then press <SET>.



4 Select the setting.

- Press the <▲▼> or <◀▶> key to select the desired setting. (Some settings require you to press either the <▲▼> or <◀▶> key to select it.)
- The current setting is indicated in blue.

5 Set the desired setting.

- Press <SET> to set it.

6 Exit the setting.

- Press the <MENU> button to return to the shooting settings display.



- In Step 2, you can also turn the <◀▶> dial to select a menu tab.
- The explanation of menu functions hereinafter assumes that you have pressed the <MENU> button to display the menu screen.
- For details about each menu item, see page 234.

MENU Formatting the Card

If the card is new or was previously formatted by another camera or computer, format the card with the 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 to a computer, etc., before formatting the card.



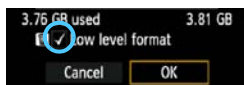
1 Select [Format].

- Under the [F] tab, select [Format], then press <SET>.



2 Format the card.

- Select [OK], then press <SET>.
- The card will be formatted.
- When the formatting is completed, the menu will reappear.



- For low-level formatting, press the <✓> button to checkmark [Low level format] with <✓>, then select [OK].

**Execute [Format] in the following cases:**

- The card is new.
- The card was formatted by a different camera or a computer.
- The card is full with images or data.
- A card-related error is displayed (p.250).

About Low-level Formatting

- Do low-level formatting if the card's recording or reading speed seems slow or if you want to totally erase all data on the card.
- Since low-level formatting will erase 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 have been completed and you can use the card as usual.



- 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, execute low-level formatting or destroy the card physically to prevent the data from being leaked.
- **Before using a new Eye-Fi card, the software on the card must be installed in your computer. Then format the card with the camera.**

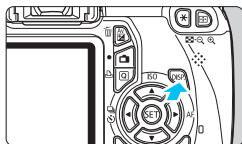


- The card capacity displayed on the card format screen might be smaller than the capacity indicated on the card.
- This device incorporates exFAT technology licensed from Microsoft.

Switching the LCD Monitor Display

The LCD monitor can display the shooting settings screen, menu screen, captured images, etc.

Shooting Settings



- When you turn on the power switch, the shooting settings will be displayed.
- 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 shooting settings screen.

Captured Image



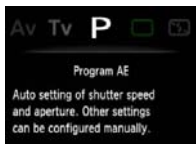
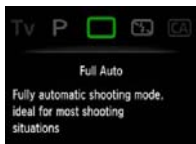
- Appears when you press the <▶> button. Press the button again to return to the shooting settings screen.

- You can set [LCD off/on btn] so that the shooting settings display does not keep turning off and on (p.166).
- Even when the menu screen or captured image is displayed, pressing the shutter button will enable you to shoot immediately.

Feature Guide

The Feature guide is a simple description of the respective function or option. It is displayed when you change the shooting mode or use the Quick Control screen to set a shooting function, Live View shooting, movie shooting, or playback. When you select a function or option on the Quick Control screen, the Feature guide description is displayed. The Feature guide turns off when you further proceed with any operation.

- **Shooting mode (Sample)**



- **Quick Control (Sample)**



Shooting function



Live View shooting



Playback

MENU Disabling the Feature Guide



Select [Feature guide].

- Under the [Feature guide] tab, select [Feature guide], then press **<SET>**. Select [Disable], then press **<SET>**.

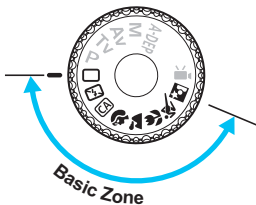


2

Basic Shooting and Image Playback

This chapter explains how to use the Basic Zone modes on the Mode Dial for best results and how to playback images.

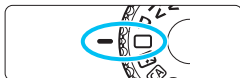
With Basic Zone modes, all you do is point and shoot and the camera sets everything automatically (p.63, 232). Also, to prevent botched pictures due to mistaken operations, major shooting settings cannot be changed in fully-automatic modes.



About the Auto Lighting Optimizer

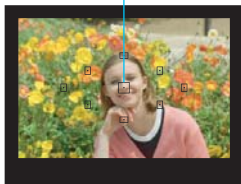
In Basic Zone modes, the Auto Lighting Optimizer (p.107) will adjust the image automatically to obtain the optimum brightness and contrast. It is also enabled by default in Creative Zone modes.

Fully Automatic Shooting



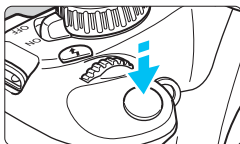
1 Set the Mode Dial to <AF>.

AF point



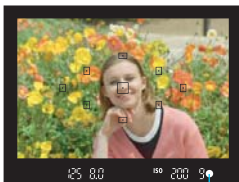
2 Aim any AF point over the subject.

- All the AF points will be used to focus, and generally the closest object will be focused.
- Aiming the center AF point over the subject will make focusing easier.



3 Focus the subject.

- Press the shutter button halfway, and the lens focusing ring will rotate to focus.
- ▶ The dot inside the AF point achieving focus flashes briefly in red. At the same time, the beeper will sound and the focus confirmation light <●> in the viewfinder will light.
- ▶ If necessary, the built-in flash will pop-up automatically.



Focus confirmation light

4 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.
- If the built-in flash has popped up, you can push it back down with your fingers.



FAQ

- **The focus confirmation light <●> blinks and focus is not achieved.**
Aim the AF point over an area having good contrast, then press the shutter button halfway (p.39). If you are too close to the subject, move away and try again.
- **Sometimes multiple AF points flash simultaneously.**
This indicates that focus has been achieved at all those AF points. When the AF point covering the desired subject flashes, take the picture.
- **The beeper continues to beep softly. (The focus confirmation light <●> does not light.)**
It indicates that the camera is focusing continuously on a moving subject. (The focus confirmation light <●> does not light.) You can take sharp pictures of a moving subject.
- **Pressing the shutter button halfway does not focus the subject.**
If the focus mode switch on the lens is set to <MF> (Manual Focus), set it to <AF> (Auto Focus).
- **Although it is daylight, the flash popped up.**
For a backlit subject, the flash may pop up to help lighten the subject's dark areas.
- **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 AF-assist beam. Its effective range is about 4 meters/13.1 feet.
- **Although flash was used, the picture came out dark.**
The subject was too far away. The subject should be within 5 meters/16.4 feet from the camera.
- **When flash was used, the bottom part of the picture came out unnaturally dark.**
The subject was too close to the camera, and a shadow was created by the lens barrel. The subject should be at least 1 meter/3.3 feet away from the camera. If a hood has been attached to the lens, remove it before taking the flash picture.

☐ Full Auto Techniques

Recomposing the Shot



Depending on the scene, position the subject toward the left or right to create a balanced background and good perspective.

In the ☐ (Full Auto) mode, while you press the shutter button halfway to focus a still subject, the focus will be locked. You can then recompose the shot and 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  Sports).

Shooting a Moving Subject



In the ☐ (Full Auto) mode, if the subject moves (distance to camera changes) during or after you focus, AI Servo AF will take effect to focus the subject continuously. As long as you keep aiming the AF point on the subject while pressing the shutter button halfway, the focusing will be continuous. When you want to take the picture, press the shutter button completely.

📷 Live View Shooting

By pressing the <📷> button, you can shoot while viewing the image on the camera's LCD monitor. This is called Live View shooting. For details, see page 121.



1 Display the Live View image on the LCD monitor.

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



2 Focus the subject.

- Aim the center AF point <☐> 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.
- ▶ If necessary, the built-in flash will pop-up automatically.

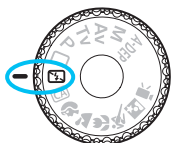


3 Take the picture.

- Press the shutter button completely.
- ▶ The picture will be taken and the captured image is displayed on the LCD monitor.
- ▶ After the image review ends, the camera will return to Live View shooting automatically.
- Press the <📷> button to exit Live View shooting.

Disabling Flash

In places where flash photography is prohibited, use the <> (Flash Off) mode. This mode is also effective for capturing the particular ambience of a scene, such as candlelight scenes.



Shooting Tips

- **Prevent camera shake if the numeric display 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.

- **Taking portraits without flash.**

In low-light conditions, tell the subject to keep still until the picture is taken. If the person moves during the exposure, he or she might look blurred in the picture.

[CA] Creative Auto Shooting

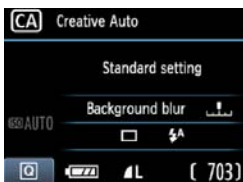
Unlike the **[]** Full Auto mode where the camera sets everything, the **[CA]** Creative Auto mode enables you to easily change the depth of field, drive mode, and flash firing.

You can also choose the ambience you want to convey in your images. The default setting is the same as the **[]** (Full Auto) mode.

* CA stands for Creative Auto.

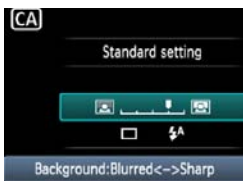


1 Set the Mode Dial to **[CA]**.



2 Press the **[Q]** button. (10)

▶ The Quick Control screen will appear.



3 Set the desired function.

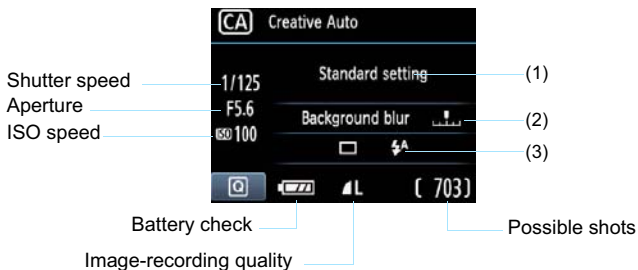
- Press the **[▲▼]** key to select a function.
- ▶ The selected function and Feature guide (p.47) will be displayed.
- For details on setting each function, see pages 56-57.

4 Take the picture.

- Press the shutter button completely to take the picture.



If you change the shooting mode or turn the power switch to **[OFF]**, the function you have set on this screen will revert to the default setting. However, the self-timer setting will be retained.



Pressing the **<Q>** button enables you to set the following:

(1) Shoot by ambience selection

You can set the ambience you want to convey in your images. Press the **<◀▶>** key or turn the **<☀>** dial to select the desired ambience. You can also select it from a list by pressing **<SET>**. For details, see page 64.

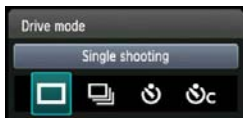
(2) Blurring/sharpening the background



If you move the index mark toward the left, the background will look more blurred. If you move it toward the right, the background will look more in focus. If you want to blur the background, see “Shooting Portraits” on page 58. Press the **<◀▶>** key or turn the **<☀>** dial to adjust it as desired.

Depending on the lens and shooting conditions, the background might not look so blurred. This function cannot be set (grayed out) if **<⚡>** has been set or if the built-in flash is raised with **<⚡^>** set. If flash is used, this setting will not be applied.

(3) Drive mode/Flash firing



When you press $\langle \text{SET} \rangle$, the drive mode or flash firing setting screens will appear. Set as desired, then press $\langle \text{SET} \rangle$ to finalize the setting and return to the Quick Control screen.

Drive mode: Press the $\langle \blacktriangleleft \blacktriangleright \rangle$ key or turn the $\langle \text{dial} \rangle$ to set it as desired.

$\langle \square \rangle$ **Single shooting** : Shoot one image at a time.

$\langle \text{stack of images} \rangle$ **Continuous shooting**:

While you hold down the shutter button completely, shots will be taken continuously. You can shoot up to about 3 shots per sec.

$\langle \text{timer icon} \rangle$ **Self-timer:10 sec** : The picture is taken 10 seconds after you press the shutter button.

$\langle \text{timer icon with infinity} \rangle$ **Self-timer:Continuous**:

Press the $\langle \blacktriangle \blacktriangledown \rangle$ key 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 will be taken.

Flash firing: Press the $\langle \blacktriangleleft \blacktriangleright \rangle$ key or turn the $\langle \text{dial} \rangle$ to set it as desired.

$\langle \text{lightning bolt with A} \rangle$ **Auto flash**: The flash fires automatically when necessary.

$\langle \text{lightning bolt} \rangle$ **Flash on** : The flash fires at all times.

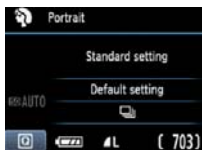
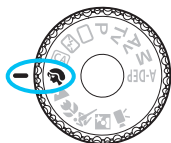
$\langle \text{lightning bolt with slash} \rangle$ **Flash off** : The flash is disabled.



- If the image-recording quality is **RAW** or **RAW + L**, the continuous shooting speed will be max. approx. 2 fps and approx. 0.8 fps (averaged value) respectively.
- When using $\langle \text{timer icon} \rangle$ or $\langle \text{timer icon with infinity} \rangle$, see the  notes on page 87.
- When using $\langle \text{lightning bolt with slash} \rangle$, see “Disabling Flash” on page 54.

Shooting Portraits

The (Portrait) mode blurs the background to make the human subject stand out. It also makes skin tones and the hair look softer than with the (Full Auto) mode.



Shooting Tips

- **The further the distance between the subject and background, the better.**

The further the distance between the subject and background, the more blurred the background will look. The subject will also stand out better in front of a plain, 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 if necessary.

- **Focus the face.**

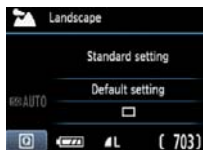
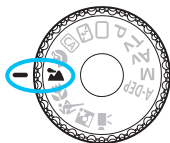
Check that the AF point covering the face flashes in red.



- If you hold down the shutter button, you can shoot continuously to obtain different poses and facial expressions. (Up to approx. 3 shots per sec. in JPEG quality.)
- If necessary, the built-in flash will pop up automatically.

Shooting Landscapes

Use the <> (Landscape) mode for wide scenery, night scenes, or to have everything in focus from near to far. The greens and blues also become more vivid and the image sharper than with <> (Full Auto).



Shooting Tips

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

When using the wide-angle end of a zoom lens, objects near and far will be in focus better than at the telephoto end. It also adds breadth to landscapes.

- **Shooting night scenes.**

Since the built-in flash will be disabled, this mode <> is also good for night scenes.

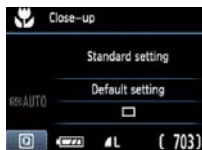
Use a tripod to prevent camera shake.

If you want to photograph a person against a night scene, set the Mode Dial to <> (Night Portrait) and use a tripod (p.62).



Shooting Close-ups

When you want to photograph flowers or small things up close, use the < > (Close-up) mode. To make small things appear much larger, use a macro lens (sold separately).



Shooting Tips

- **Use a simple background.**

A simple background makes the flower, etc., stand out better.

- **Move to the subject as close as possible.**

Check the lens for its minimum focusing distance. Some lenses have indications such as < 0.25m/0.8ft>. The lens minimum focusing distance is measured from the < > (focal plane) mark on the top left of the camera to the subject. If you are too close to the subject, the focus confirmation light < > will blink.

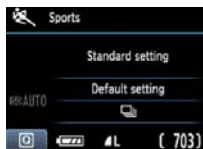
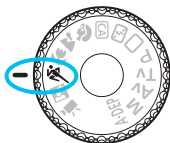
Under low light, the built-in flash will fire. If you are too close to the subject and the bottom of the picture looks dark, move away from the subject.

- **With a zoom lens, use the telephoto end.**

If you have a zoom lens, using the telephoto end will make the subject look larger.

Shooting Moving Subjects

To photograph a moving subject, whether it is a child running or a moving vehicle, use the <> (Sports) mode.



Shooting Tips

- **Use a telephoto lens.**

Using a telephoto lens is recommended so you can shoot from afar.

- **Use the center AF point to focus.**

Aim the center AF point over the subject, then press the shutter button halfway to autofocus. During autofocus, the beeper will continue beeping softly. If focus cannot be achieved, the focus confirmation light <●> will blink.

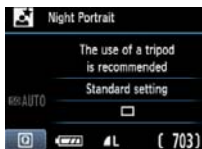
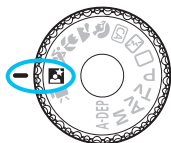
When you want to take the picture, press the shutter button completely. If you hold down the shutter button, continuous shooting (max. approx. 3 shots per sec. in JPEG quality) and autofocus will take effect.



Under low light when camera shake is prone to occur, the viewfinder's shutter speed display on the bottom left will blink. Hold the camera steady and shoot.

Shooting Portraits at Night

To shoot someone at night and obtain a natural-looking exposure in the background, use the <📷> (Night Portrait) mode.



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, use a tripod to prevent camera shake.

- **Keep the person within 5 meters/16.4 feet from the camera.**

Under low light, the built-in flash will fire automatically to obtain a good exposure of the person. The maximum effective distance of the built-in flash is 5 meters/16.4 feet from the camera.

- **Shoot also with <📷> (Full Auto).**

Since camera shake is prone to occur with night shots, shooting also with <📷> (Full Auto) 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 briefly after the picture is taken.

Q Quick Control

Example: Portrait mode



In Basic Zone modes when the shooting settings screen is displayed, you can press the **<Q>** button to display the Quick Control screen. The table below indicates the functions that can be set with the Quick Control screen in each Basic Zone mode.

1 Set the Mode Dial to a Basic Zone mode.

2 Press the **<Q>** button. (10)

- ▶ The Quick Control screen will appear.

3 Set the function.

- Press the **<▲▼>** key to select a function. (Step not necessary in the **□/☰** mode.)
- ▶ The selected function and Feature guide (p.47) will be displayed.
- Press the **<◀▶>** key or turn the **<☞>** dial to change the setting.

Settable Functions in Basic Zone Modes

●: Set automatically ○: User selectable □: Not selectable

Function		(p.50)	(p.54)	(p.55)	(p.58)	(p.59)	(p.60)	(p.61)	(p.62)
Drive mode	: Single shooting	○	○	○	□	○	○	□	○
	: Continuous shooting	□	□	○	○	□	□	○	□
	Self-timer	: 10 sec.	○	○	○	○	○	○	○
		: Continuous*	○	○	○	○	○	○	○
Flash firing	Automatic firing	●	□	○	●	□	●	□	●
	Flash on (Fires at all times)	□	□	○	□	□	□	□	□
	Flash off	□	●	○	□	●	□	●	□
Shoot by ambience selection (p.64)		□	□	○	○	○	○	○	○
Shoot by lighting or scene type (p.67)		□	□	□	○	○	○	○	□
Blurring/sharpening the background (p.56)		□	□	○	□	□	□	□	□

* Use the **<▲▼>** key to set the number of continuous shots.

Shoot by Ambience Selection

Except in the <□> (Full Auto) and <📷> (Flash Off) Basic Zone modes, you can select the ambience for shooting.

Ambience	□	📷	CA	📷	📷	📷	📷	📷	Ambience Effect
(1) Standard setting			○	○	○	○	○	○	No setting
(2) Vivid			○	○	○	○	○	○	Low / Standard / Strong
(3) Soft			○	○	○	○	○	○	Low / Standard / Strong
(4) Warm			○	○	○	○	○	○	Low / Standard / Strong
(5) Intense			○	○	○	○	○	○	Low / Standard / Strong
(6) Cool			○	○	○	○	○	○	Low / Standard / Strong
(7) Brighter			○	○	○	○	○	○	Low / Medium / High
(8) Darker			○	○	○	○	○	○	Low / Medium / High
(9) Monochrome			○	○	○	○	○	○	Blue / B/W / Sepia

1 Set the Mode Dial to any of the following modes: <CA>, <📷>, <📷>, <📷>, <📷> or <📷>.

2 Display the Live View image.

- With the Live View image displayed, you can see the ambience effect.
- Press the <📷> button to switch to Live View shooting.

3 On the Quick Control screen, select the desired ambience.

- Press the <Q> button (📷10).
- Press the <▲> key to select [Standard setting]. [Shoot by ambience selection] will appear on the screen's bottom.
- Press the <◀▶> key or turn the <⚙️> dial to select the desired ambience.
- ▶ The LCD monitor will show how the image will look with the selected ambience.





4 Set the ambience effect.

- Press the <▲▼> key to select the effect bar so that **[Effect]** appears at the bottom.
- Press the <◀▶> key or turn the <☀> dial to select the desired effect.

5 Take the picture.

- To shoot while the Live View image is displayed, press the shutter button.
- 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 **[Standard setting]**.



- The Live View image shown with the ambience setting applied will not look exactly the same as the actual photo.
- Using flash may minimize the ambience effect.
- In bright outdoors, the Live View image you see on the screen might not have exactly the same brightness or ambience as the actual photo. Set **[🔆 LCD brightness]** to 4 and look at the Live View image while the screen is unaffected by stray light.



If you don't want the Live View image to be displayed when setting functions, press the <[Q]> button after step 1. When you press the <[Q]> button, the Quick Control screen is displayed and you can set **[Shoot by ambience selection]** and **[Shoot by lighting or scene]**, then shoot with the viewfinder.

Ambience Settings

(1) **Standard setting**

Standard image characteristics for the respective shooting mode.

Note that <📷> has image characteristics geared for portraits and <🌄> is geared for landscapes. Each ambience is a modification of the respective shooting mode's image characteristics.

(2) **Vivid**

The subject will look sharp and vivid. It makes the photo look more impressive than with [**Standard setting**].

(3) **Soft**

The subject will look softer and more dainty. Good for portraits, pets, flowers, etc.

(4) **Warm**

The subject will look softer with warmer colors. Good for portraits, pets, and other subjects to which you want to give a warm look.

(5) **Intense**

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

(6) **Cool**

The overall brightness is slightly lowered with a cooler color cast. A subject in the shade will look more calm and impressive.

(7) **Brighter**

The picture will look brighter.

(8) **Darker**

The picture will look darker.

(9) **Monochrome**

The picture will be monochrome. You can select the monochrome color to be black and white, sepia, or blue. When [**Monochrome**] is selected, <B/W> will appear in the viewfinder.

Shoot by Lighting or Scene Type

In the <👤> (Portrait), <🏞️> (Landscape), <🌸> (Close-up), and <🏈> (Sports) Basic Zone modes, you can shoot while the settings match the lighting or scene type. Normally, [Default setting] is adequate, but if the settings match the lighting condition or scene, the picture will look more accurate to your eye.

For Live View shooting, if you set both [Shoot by lighting or scene type] and [Shoot by ambience selection] (p.64), you should first set [Shoot by lighting or scene type]. This will make it easier to see the resulting effect on the LCD monitor.

Lighting or Scene								
(1) Default setting				○	○	○	○	
(2) Daylight				○	○	○	○	
(3) Shade				○	○	○	○	
(4) Cloudy				○	○	○	○	
(5) Tungsten light				○		○	○	
(6) Fluorescent light				○		○	○	
(7) Sunset				○	○	○	○	

- 1 Set the Mode Dial to any of the following modes: <👤> <🏞️> <🌸> <🏈>



- 2 Display the Live View image.

- With the Live View image displayed, you can see the resulting effect.
- Press the <📷> button to switch to Live View shooting.



3 On the Quick Control screen, select the lighting or scene type.

- Press the <Q> button (ⓘ10).
- Press the <▲> key to select **[Default setting]**. **[Shoot by lighting or scene type]** will appear on the screen's bottom.
- Press the <◀▶> key or turn the <⚙> dial to select the desired lighting or scene type.
- ▶ The LCD monitor will show how the image will look with the selected lighting or scene type.

4 Take the picture.

- To shoot while the Live View image is displayed, press the shutter button.
- To return to the viewfinder image, 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 **[Default setting]**.

- ❗
- If you use flash, the setting will switch to **[Default setting]**. (However, the shooting information will display the lighting or scene type that was set.)
 - If you want to set this together with **[Shoot by ambience selection]**, set the **[Shoot by lighting or scene type]** which best matches the ambience you have set. In the case of **[Sunset]** for example, warm colors will become prominent so the ambience you set might not work well.

- 📷
- If you don't want the Live View image to be displayed when setting functions, press the <Q> button after step 1. Pressing the <Q> button will display the Quick Control screen. You can then set **[Shoot by lighting or scene type]** and shoot through the viewfinder.

Lighting or Scene Type Settings

(1) **Default setting**

The default setting.

(2) **Daylight**

For subjects under sunlight. Gives more natural-looking blue skies and greenery and reproduces light-colored flowers better.

(3) **Shade**

For subjects in the shade. Suitable for skin tones, which may look too bluish, and for light-colored flowers.

(4) **Cloudy**

For subjects under overcast skies. Makes skin tones and landscapes, which may otherwise look dull on a cloudy day, look warmer. Also effective for light-colored flowers.

(5) **Tungsten light**

For subjects lit under tungsten lighting. Reduces the reddish-orange color cast caused by tungsten lighting.

(6) **Fluorescent light**

For subjects under fluorescent lighting. Suited for all types of fluorescent lighting.

(7) **Sunset**

Suitable when you want to capture the sunset's impressive colors.

▶ Image Playback

The easiest way to playback images is explained below. For more details on the playback procedure, see page 175.



1 Playback the image.

- When you press the <▶> button, the last image captured will be displayed.



2 Select an image.

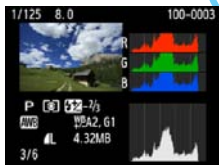
- To view images starting with the last image, press the <◀> key. To view images starting with the first (oldest) image, press the <▶> key.
- Each time you press the <DISP.> button, the display format will change.



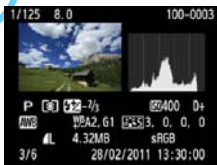
With basic information



Basic information +
Image quality/Playback number



Histogram



Shooting information display

3 Exit the image playback.

- Press the <▶> button to exit the image playback and return to the shooting settings display.

3

Creative Shooting

In the Basic Zone modes, to prevent spoiled shots, most functions are set automatically and cannot be changed. In the <P> (Program AE) mode, you can set various functions and be more creative.

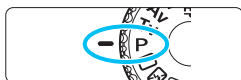
- In the <P> mode, the camera sets the shutter speed and aperture automatically to obtain a standard exposure.
- The difference between the Basic Zone modes and <P> is explained on page 232.
- The functions explained in this chapter can also be used in the <Tv>, <Av>, and <M> modes explained in Chapter 4.
- The ☆ mark shown on the right of the page title indicates that the function is available only in Creative Zone modes (p.22).

* <P> stands for Program.

* AE stands for Auto Exposure.

P: Program AE

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



1 Set the Mode Dial to <P>.



2 Focus the subject.

- Look through the viewfinder and aim the selected AF point over the subject. Then press the shutter button halfway.
- ▶ The dot inside the AF point achieving focus lights briefly in red, and the focus confirmation light <●> in the viewfinder's bottom right lights (with One Shot AF).
- ▶ The shutter speed and aperture will be set automatically and displayed in the viewfinder.



3 Check the display.

- A standard exposure will be obtained as long as the shutter speed and aperture display do not blink.

4 Take the picture.

- Compose the shot and press the shutter button completely.

⚠ If you use a TS-E lens to shift the lens vertically or use an Extension Tube, the standard exposure might not be obtained or an irregular exposure may result.



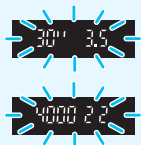
Shooting Tips

- **Change the ISO speed or use the built-in flash.**

To match the subject and ambient lighting level, you can change the ISO speed (p.77) or use the built-in flash (p.88). In the <P> mode, the built-in flash will not fire automatically. So under low light, press the <⚡> (Flash) button to pop up the built-in flash. (You can also pop up the built-in flash by selecting the <⚡_{UP}> icon on the Quick Control screen.)

- **The program can be shifted. (Program shift)**

After pressing the shutter button halfway, turn the <⚙> 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 maximum aperture blink, it indicates underexposure. Increase the ISO speed or use flash.
- If the “4000” shutter speed and the minimum aperture blink, it indicates overexposure. Decrease the ISO speed.

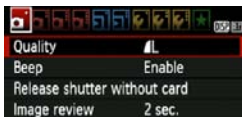


Differences Between <P> and <□> (Full Auto)

With <□>, many functions such the AF mode, drive mode, and built-in flash are set automatically to prevent spoiled shots. The functions you can set are limited. With <P>, only the shutter speed and aperture are set automatically. You can freely set the AF mode, drive mode, built-in flash, and other functions (p.232).

MENU Setting the Image-recording Quality

You can select the pixel count and the image quality. Ten image-recording quality settings are provided: **L**, **L**, **M**, **M**, **S1**, **S1**, **S2**, **S3**, **RAW**, **RAW+L**.

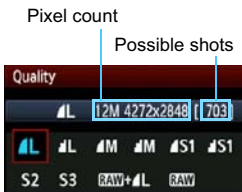


1 Select [Quality].

- Under the [Q] tab, select [Quality], then press <SET>.
- [Quality] will appear.

2 Select the image-recording quality.

- The respective quality's pixel count and number of possible shots will be displayed to help you select the desired quality. Then press <SET>.



Guide to Image-recording Quality Settings (Approx.)

Quality			Pixels Recorded (megapixels)	File Size (MB)	Possible Shots	Maximum Burst	
 L	High quality	JPEG	Approx. 12.2 (12.2M)	4.4	830	830	
 L				2.2	1600	1600	
 M	Approx. 6.3 (6.3M)		2.6	1400	1400		
 M			1.4	2630	2630		
 S1	Approx. 3.4 (3.4M)		1.7	2130	2130		
 S1			0.9	4060	4060		
S2	Low quality		Approx. 2.5 (2.5M)	1.2	2880	2880	
S3			Approx. 0.35 (0.35M)	0.3	11280	11280	
RAW			High quality	Approx. 12.2 (12.2M)	16.7	210	5
RAW +  L					16.7+4.4	170	1

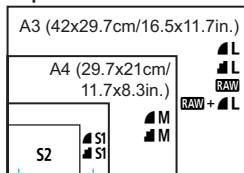
* Figures for the file size, number of possible shots, and maximum burst are based on Canon's 4GB test card and testing standards (ISO 100 and Standard Picture Style).

These figures will vary depending on the subject, card brand, ISO speed, Picture Style, Custom Functions, and other settings.

FAQ

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

Paper size



17.8x12.7cm/7.0x5.0in.

14.8x10cm/5.8x3.9in.

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

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 **L**, **L**, **RAW**, or **RAW+L** is recommended. **S2** is suitable for playing the images on a digital photo frame. **S3** is suitable for emailing the image or using it on a Web site.

- What's the difference between **L** and **L**?

It indicates a different image quality due to a different compression rate. Even with the same number of pixels, the **L** image has higher image quality. If **L** is selected, the image quality will be slightly lower, but more images can be saved to the card. Both **S2** and **S3** have **L** (Fine) quality.

- I could take more shots than the number of possible shots indicated.

Depending on the shooting conditions, you may be able to take more shots than was indicated. It might 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 in the viewfinder's right side. Since it is only a single-digit indicator **0 - 9**, any number higher than 9 will be displayed only as "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 **RAW**?

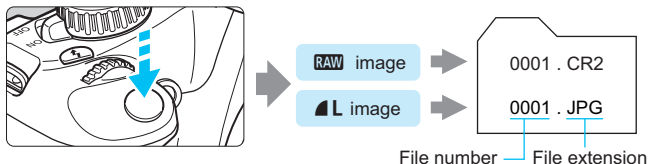
RAW images require processing with your computer. For details, see "About **RAW**" and "About **RAW+L**" on the next page.

About **RAW**

RAW is the raw image data before it is made into **L** or other images. Although **RAW** images require software like Digital Photo Professional (provided, p.264) so they can be displayed on the computer, they also offer flexibility for image adjustments possible only with **RAW**. **RAW** is effective when you want to precisely adjust the image yourself or shoot an important subject.

About **RAW** + **L**

RAW + **L** records both a **RAW** and **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). **L** images can be viewed or printed even with a computer which does not have the software provided with the camera installed.



 Commercially-available software might not be able to display RAW images. Using the provided software is recommended.

ISO: Changing the ISO Speed ☆

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 (p.78).



1 Press the <▲ ISO> button.

▶ [ISO speed] will appear.



2 Set the ISO speed.

- Press the <◀▶> key or turn the <ISO> dial to select the desired ISO speed, then press <SET>.
- With [AUTO] selected, the ISO speed will be set automatically (p.78).

ISO Speed Guide

ISO Speed	Shooting Situation (No flash)	Flash Range
100 - 400	Sunny outdoors	The higher the ISO speed, the farther the flash range will extend (p.88).
400 - 1600	Overcast skies or evening time	
1600 - 6400	Dark indoors or night	

* High ISO speeds will result in grainier images.

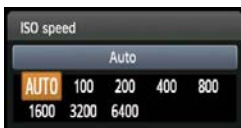


- Under [**Custom Functions (C.Fn)**], if [**5: Highlight tone priority**] is set to [**1: Enable**], ISO 100 cannot be selected (p.220).
- Shooting in high temperatures may result in images that look grainier. Long exposures can also cause irregular colors in the image.
- When you shoot at high ISO speeds, noise (banding, dots of light, etc.) may become noticeable.



Under [**Custom Functions (C.Fn)**], if [**9: Flash button function**] is set to [**1: ISO speed**], you can set the ISO speed with the <⚡> button.

ISO [AUTO]



If the ISO speed is set to **[AUTO]**, the actual ISO speed to be set will be displayed when you press the shutter button halfway. As indicated below, the ISO speed will be set automatically to suit the shooting mode.

Shooting Mode	ISO Speed Setting
	Automatically set within ISO 100 - 3200
P/Tv/Av/M^{*1}/A-DEP	Automatically set within ISO 100 - 6400 ^{*2}
	Fixed at ISO 100
With flash	Fixed at ISO 800 ^{*3*4*5}

*1: Fixed at ISO 800 for bulb exposures.

*2: Depends on the maximum ISO speed limit set.

*3: If fill flash results in overexposure, ISO 100 or a higher ISO speed will be set.

*4: If bounce flash is used with an external Speedlite in a Basic Zone (except) mode, <P> or <A-DEP> mode, ISO 800 - 1600 (or up to the maximum limit) will be set automatically.

*5: Fixed at ISO 400 if the maximum limit is ISO 400.

- 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.198), you may find an ISO speed like 125 or 640 displayed as the ISO speed.
- In the mode, the ISO speed shown in the table is actually used even if ISO 100 is not displayed.

MENU Setting the Maximum ISO Speed for ISO Auto [★]

For ISO Auto, you can set the maximum ISO speed limit within ISO 400 - 6400.



Under the tab, select **[ISO Auto]**, then press . Select the ISO speed, then press .

✎ Selecting the Subject's Optimal Image Characteristics ☆

By selecting a Picture Style, you can obtain image characteristics matching your photographic expression or the subject.

In Basic Zone modes, you cannot select the Picture Style.



1 Select [Picture Style].

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



2 Select a Picture Style.

- Select a Picture Style, then press <SET>.
- The Picture Style will be set and the menu reappears.

Picture Style Characteristics

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. Good for close-up portraits. This Picture Style is also selected automatically when the Mode Dial is set to <P>.

By changing the [Color tone] (p.111), you can adjust the skin tone.

Landscape

For vivid blues and greens, and very sharp and crisp images. Effective for impressive landscapes. This Picture Style is also selected automatically when the Mode Dial is set to <L>.

Neutral

This Picture Style is for users who prefer to process images with their computer. For natural colors and subdued images.

Faithful

This Picture Style is for users who prefer to process images with their computer. When the subject is captured under a color temperature of 5200K, the color is adjusted colorimetrically to match the subject's color. The image looks dull and subdued.

Monochrome

Creates black-and-white images.



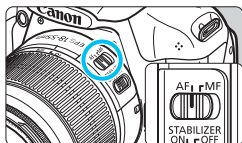
Monochrome images shot in an image-recording quality other than **RAW** cannot be reverted to color. If you want to later shoot pictures in color, make sure the **[Monochrome]** setting has been canceled. When **[Monochrome]** is set, **<B/W>** will appear in the viewfinder.

User Def. 1-3

You can register a basic style such as **[Portrait]**, **[Landscape]**, a Picture Style file, etc., and adjust it as desired (p.113). Any User Defined Picture Style which has not been set will have the same default settings as the **[Standard]** Picture Style.

AF: Changing the Autofocus Mode ☆

You can select the AF (autofocus) mode to suit the shooting conditions or subject. In Basic Zone modes, the most suitable AF mode is set automatically.



- 1 On the lens, set the focus mode switch to <AF>.**



- 2 Press the <▶ AF> button.**
▶ [AF mode] will appear.



- 3 Select the AF mode.**

- Press the <◀▶> key or turn the <⚙> dial to select the desired AF mode, then press <SET>.

- 4 Focus the subject.**

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

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 dot inside the AF point achieving focus lights briefly in red, and the focus confirmation light <●> in the viewfinder will also light.
- With evaluative metering (p.100), the exposure setting will be set at the same time focus is achieved.
- While you hold 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 confirmation light <●> in the viewfinder will blink. If this occurs, a picture cannot be taken even if the shutter button is pressed completely. Recompose the picture and try to focus again. Or see “Subjects Difficult to Focus” (p.85).
- If [Beep] is set to [Disable], the beeper will not sound when focus is achieved.

AI Servo AF for Moving Subjects

This AF mode is for moving subjects when the focusing distance keeps changing. While you hold down the shutter button halfway, the subject will be focused continuously.

- The exposure is set at the moment the picture is taken.
- When the AF point selection (p.83) is automatic, the camera first uses the center AF point to focus. During autofocus, 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 confirmation light <●> in the viewfinder will not light.

AI Focus AF for Automatic Switching of AF Mode

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

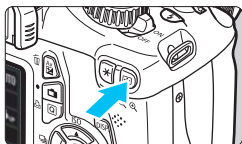
- After the subject is focused in One-Shot AF mode, if the subject starts moving, the camera will detect the movement and change the AF mode automatically to AI Servo AF.



When focus is achieved in the AI Focus AF mode with the Servo mode active, the beeper will sound continuously softly. However, the focus confirmation light <●> in the viewfinder will not light.

Selecting the AF Point ☆

In Basic Zone modes, the camera will normally focus the closest subject automatically. Therefore, it might not always focus your target subject. In the <P>, <Tv>, <Av>, and <M> modes, you can select the AF point and use it to focus the target subject.



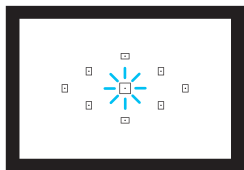
1 Press the <> button. (ⓘ6)

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



2 Select the desired AF point.

- Press the <> key to select the AF point.
- While looking at the viewfinder, you can select the AF point by turning the < dial until the desired AF point lights 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 the subject.
- Pressing < SET> toggles the AF point selection between the center AF point and automatic AF point selection.



3 Focus the subject.

- Aim the selected AF point over the subject and press the shutter button halfway to focus.



Shooting Tips

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

If you focus the eyes first, you can then recompose and the face will remain sharp.

- **If it is difficult to focus, select and use the center AF point.**

The center AF point is the most sensitive among the nine AF points.

- **To make it easier to focus a moving subject, set the camera to automatic AF point selection and AI Servo AF (p.82).**

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

AF-Assist Beam with the Built-in Flash

Under low-light conditions, when you press the shutter button halfway, the built-in flash fires a brief burst of flashes. It illuminates the subject to enable easier autofocus.



- The AF-assist beam will not be fired in the following shooting modes: ,  and .
- The AF-assist beam cannot be emitted in the AI Servo AF mode.
- The effective range of the AF-assist beam emitted by the built-in flash is about 4 meters/13.1 feet.
- In Creative Zone modes when you raise the built-in flash with the , the AF-assist beam will be fired when necessary.



If you use an Extender (sold separately) and the maximum aperture becomes smaller than f/5.6, AF shooting will not be possible (except in **[Live mode]** and **[ Live mode]** during Live View shooting). For details, see the Extender's instruction manual.

Subjects Difficult to Focus

Autofocus can fail to achieve focus (viewfinder's focus confirmation light <●> blinks) with certain subjects such as the following:

- Very low-contrast subjects.
(Example: Blue sky, solid-color walls, etc.)
- Subjects in very low light
- Extremely backlit or reflective subjects
(Example: Car with a highly reflective body, etc.)
- Near and far subjects covered by an AF point
(Example: Animal in a cage, etc.)
- Repetitive patterns
(Example: Skyscraper windows, computer keyboards, etc.)

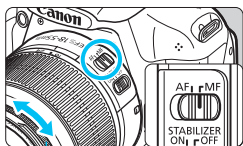
In such cases, do one of the following:

- (1) With One-Shot AF, focus an object at the same distance as the subject and lock the focus before recomposing (p.52).
- (2) Set the lens focus mode switch to <MF> and focus manually.



Conditions in which focus is difficult to achieve in the [Live mode] and [Live mode] AF modes during Live View shooting are listed on page 132.

MF: Manual Focusing



Focusing ring

1 Set the lens focus mode switch to <MF>.

2 Focus the subject.

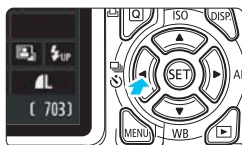
- Focus by turning the lens focusing ring until the subject looks sharp in the viewfinder.



If you hold down the shutter button halfway during manual focusing, the AF point achieving focus will light in red briefly, the beeper will sound, and the focus confirmation light <●> in the viewfinder will light.

Continuous Shooting ☆

You can shoot up to about 3 shots per sec. This is effective for shooting a child running toward you or capturing different facial expressions.



1 Press the <[Camera icon with 3 rectangles]> button.

2 Select <[Camera icon with 3 rectangles]>.

- Press the <[Left/Right arrow]> key or turn the <[Sun icon]> dial to select continuous shooting <[Camera icon with 3 rectangles]>, then press <[SET]>.
- The continuous shooting speed will vary depending on the image-recording quality (p.74).

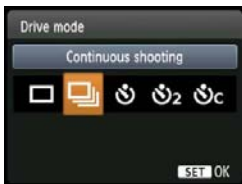
JPEG : Max. approx. 3 fps

RAW : Max. approx. 2 fps

RAW + L : Approx. 0.8 fps
(averaged value)

3 Take the picture.

- The camera shoots continuously while you hold down the shutter button completely.



Shooting Tips

Also set the AF mode (p.81) matching the subject.

• For a moving subject

When AI Servo AF is set, focusing will be continuous during continuous shooting.

• For still subjects

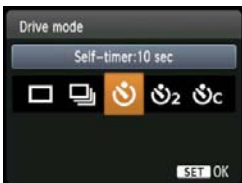
When One-Shot AF is set, the camera will focus only once during continuous shooting.

- Depending on the image-recording quality setting, if [3: Long exposure noise reduction] (p.219) is set to [1: Auto] or [2: On], or if [4: High ISO speed noise reduction] is set to [2: Strong] under [F: Custom Functions (C.Fn)], the continuous shooting speed may be slower and the maximum burst during continuous shooting may decrease.
- In AI Servo AF mode, the continuous shooting speed may become slightly slower depending on the subject and the lens used.
- The continuous shooting speed might also decrease indoors and under low light.

Using the Self-timer



1 Press the **<[Timer Icon]>** button.



2 Select the self-timer.

- Press the **<[Drive Mode Dial]>** key or turn the **<[Drive Mode Dial]>** dial to select the desired self-timer, then press **<[SET]>**.

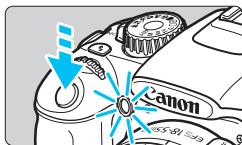
[Timer Icon] : 10-sec. self-timer

[2-sec Self-Timer Icon] : 2-sec. self-timer[☆]

[Continuous Self-Timer Icon] : 10-sec. self-timer plus continuous shots



Press the **<[▲/▼]>** key to set the number of continuous shots (2 to 10) to be taken with the self-timer.



3 Take the picture.

- Look through the viewfinder, focus 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.
- Two seconds before the picture is taken, the self-timer lamp will stay on and the beeper will sound faster.



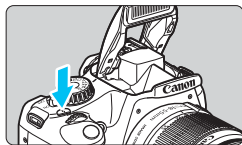
With **[Continuous Self-Timer Icon]**, the interval between the multiple shots may be prolonged depending on the shooting functions settings such as the image-recording quality or flash.



- After taking self-timer shots, you should check the image for proper focus and exposure (p.70).
- If you will not look through the viewfinder when you press the shutter button, attach the eyepiece cover (p.229). If stray light enters the viewfinder when the picture is taken, it may throw off the exposure.
- When using the self-timer to shoot only yourself, use focus lock (p.52) on an object at about the same distance as where you will stand.
- To cancel the self-timer after it starts, press the **<[Timer Icon]>** button. To cancel the self-timer during Live View shooting, set the power switch to **<OFF>**.

⚡ Using the Built-in Flash

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



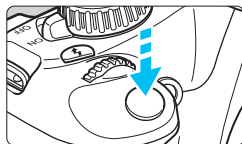
1 Press the <⚡> button.

- In Creative Zone modes, you can press the <⚡> button anytime to take flash pictures.
- While the flash is recycling, “⚡ buSY” is displayed in the viewfinder, and [BUSY⚡] is displayed on the LCD monitor.



2 Press the shutter button halfway.

- In the bottom left of the viewfinder, check that the <⚡> icon is lit.



3 Take the picture.

- When focus is achieved and you press the shutter button completely, the flash will fire for the picture.

Effective Flash Range

[Approx. in meters/feet]

ISO Speed (p.77)	EF-S 18-55mm f/3.5-5.6 IS II EF-S 18-55mm f/3.5-5.6 III	
	Wide Angle	Telephoto
100	1 - 2.6 / 3.3 - 8.5	1 - 1.6 / 3.3 - 5.2
200	1 - 3.7 / 3.3 - 12.1	1 - 2.3 / 3.3 - 7.5
400	1 - 5.3 / 3.3 - 17.4	1 - 3.3 / 3.3 - 10.8
800/AUTO*	1 - 7.4 / 3.3 - 24.3	1 - 4.6 / 3.3 - 15.1
1600	1 - 10.5 / 3.3 - 34.4	1 - 6.6 / 3.3 - 21.7
3200	1 - 14.9 / 3.3 - 48.9	1 - 9.3 / 3.3 - 30.5
6400	1 - 21.0 / 3.3 - 68.9	1 - 13.1 / 3.3 - 43.0

* For fill flash, the ISO speed might be set lower than ISO 800.



Shooting Tips

- **If the subject is far away, increase the ISO speed** (p.77).
By increasing the ISO speed, you can extend the flash range.
- **In bright light, decrease the ISO speed.**
If the exposure setting in the viewfinder blinks, decrease the ISO speed.
- **Detach the lens hood and keep at least 1 meter/3.3 feet away from the subject.**
If the lens has a hood attached or you are too close to the subject, the bottom of the picture might look dark due to the obstructed flash. For important shots, check the image on the LCD monitor to make sure the flash exposure looks natural (not dark at the bottom).

MENU Red-eye Reduction

Using the red-eye reduction lamp before taking a flash picture can reduce red eye. Red-eye reduction will work in any shooting mode except <[M]> <[A]> <[S]> <[P]>.



- Under the [] tab, 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. Then when you press the shutter button completely, the picture will be taken.



- The red-eye reduction feature is most 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 shrink and turn off. For best results, take the picture after this scale display turns off.
- The effectiveness of red-eye reduction varies depending on the subject.





4

Advanced Shooting

This chapter builds on Chapter 3 and introduces more ways to shoot creatively.

- The first half of this chapter explains how to use the <Tv> <Av> <M> <A-DEP> modes on the Mode Dial.
- All the functions explained in Chapter 3 can also be used in the <Tv>, <Av>, and <M> modes.
- To see which functions can be used in each shooting mode, see page 232.
- The ☆ mark shown on the right of the page title indicates that the function is available only in Creative Zone modes (p.22).

⤵ About the Main Dial Pointer



The pointer icon <⤵> displayed together with the shutter speed, aperture setting, or exposure compensation amount indicates that you can turn the <⤵> dial to adjust the respective setting.

Tv: Action Shots

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 action
(Fast shutter speed: 1/2000 sec.)



1 Set the Mode Dial to **<Tv>**.



2 Set the desired shutter speed.

- See “Shooting Tips” for advice on setting the shutter speed.
- Turning the  dial to the right sets a faster shutter speed, and turning it to the left sets a slower one.



3 Take the picture.

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



Shutter Speed Display

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



Shooting Tips

- **To freeze the action or moving subject.**
Use a fast shutter speed such as 1/4000 sec. to 1/500 sec.
- **To blur a running child or animal giving the impression of fast movement.**
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.
- **How to blur a flowing river or water 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 in the viewfinder.**

If you press the shutter button halfway and change the shutter speed while the aperture is displayed, the aperture display will also change to maintain the same exposure (amount of light reaching the image sensor). If you exceed the adjustable aperture range, the aperture display will blink to indicate that the standard exposure cannot be obtained.

If the exposure will be too dark, the maximum aperture (smallest number) will blink. If this happens, turn the  dial to the left to set a slower shutter speed or increase the ISO speed.

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



⚡ Using the Built-in Flash

To obtain a correct flash exposure, the flash output will be set automatically (autoflash exposure) to match the automatically-set aperture. The flash sync speed can be set from 1/200 sec. to 30 sec.

Av : Changing the Depth of Field

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

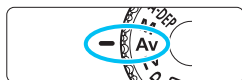
* <Av> stands for Aperture value which is the size of the diaphragm hole inside the lens.



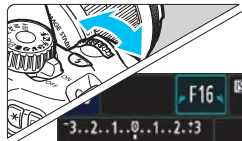
Blurred background
(With a low aperture f/number: f/5.6)



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



1 Set the Mode Dial to <Av>.



2 Set the desired aperture.

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



3 Take the picture.

- Focus and press the shutter button completely. The picture will be taken with the selected aperture.



Aperture Display

The higher the f/number, the smaller the aperture opening will be. The apertures 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, note that camera shake can occur in low light scenes.**

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 depends 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 while the shutter speed is displayed, the shutter speed display will also change to maintain the same exposure (amount of light reaching the image sensor). If you exceed the adjustable shutter speed range, the shutter speed display 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 to the left to set a lower aperture 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 to the right to set a higher aperture f/number or decrease the ISO speed.



⚡ Using the Built-in Flash

To obtain a correct flash exposure, the flash output will be set automatically to match the set aperture (autoflash exposure). The shutter speed will be set automatically between 1/200 sec. - 30 sec. to suit the scene's brightness.

In low light, the main subject is exposed with the automatic flash, and the background is exposed with a slow shutter speed set automatically. Both the subject and background look properly exposed (automatic slow-speed flash sync). If you are handholding the camera, keep it steady to prevent camera shake. Using a tripod is recommended. If you do not want a slow shutter speed to be used, set **[2: Flash sync. speed in Av mode]** to **[1: 1/200-1/60 sec. auto]** or **[2: 1/200 sec. (fixed)]** in **[F: Custom Functions (C.Fn)]** (p.218).

MENU 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 LCD monitor, the depth of field will look narrow. With the procedure below, you can check the depth of field before taking the picture.

1 Enable depth-of-field preview to be used.

- Under **[F: Custom Functions (C.Fn)]**, set **[8: Assign SET button]** to **[5: Depth-of-field preview]** (p.222).
- For details about Custom Function settings, see page 216.

2 Exit the menu.

- Press the **<MENU>** button two times to exit the menu.

3 Press **<(SET)>**.

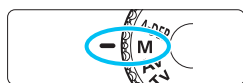
- ▶ The aperture will be stopped down so you can see the depth of field.

 While looking at the Live View image (p.122) and holding down the **<(SET)>** button, you can change the aperture and see how the depth of field changes.

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.

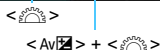


1 Set the Mode Dial to <M>.



2 Set the shutter speed and aperture.

- To set the shutter speed, turn the <⌚> dial.
- To set the aperture, hold down the <Av/☒> button and turn the <⌚> dial.



Standard exposure index



Exposure level mark

3 Focus the subject.

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

4 Set the exposure and take the picture.

- Set the shutter speed and aperture as desired.
- If the exposure set exceeds ± 2 stops from the standard exposure, the end of the exposure level indicator will display <⬅> or <⬆> in the viewfinder. (On the LCD monitor, if the exposure level is higher than ± 3 stops, the <⬆> icon will blink at where <-3> or <+3> is displayed.)



If [Auto Lighting Optimizer] (p.107) is set to any setting other than [Disable], the image may still look bright even if a darker exposure has been set.

⚡ Using the Built-in Flash

To obtain a correct flash exposure, the flash output will be set automatically (autoflash exposure) to match the manually-set aperture. The flash sync speed can be set from 1/200 sec. to 30 sec. and bulb.

BULB: Bulb Exposures



Elapsed exposure time

A bulb exposure keeps the shutter open for as long as you hold down the shutter button. It can be used to photograph fireworks, etc.

In step 2 on the preceding page, turn the <⚙> dial to the left to set <BULB>.

The elapsed exposure time will be displayed on the LCD monitor.

- ⚠ During bulb exposures, do not point the lens toward the sun. The sun's heat can damage the camera's internal components.
- Since bulb exposures produce more noise than usual, the image might look a little grainy.
- You can reduce the noise due to long exposures by setting [3: Long exp. noise reduction] to [1: Auto] or [2: On] in the [⚙: Custom Functions (C.Fn)] (p.219).

📖 For bulb exposures, using a tripod and Remote Switch (sold separately, p.229) is recommended.

A-DEP: Automatic Depth-of-Field AE

Objects in the foreground and background will be in focus automatically. All the AF points will function to detect the subject, and the aperture required to attain the necessary depth of field will be set automatically.

* <A-DEP> stands for Auto-Depth of field. This mode sets the depth of field automatically.



1 Set the Mode Dial to <A-DEP>.



2 Focus the subject.

- Aim the AF points over the subjects and press the shutter button halfway (ⓘ4).
- All the subjects covered by the AF points flashing in red will be in focus.
- If focus is not achieved, the picture cannot be taken.

3 Take the picture.

? FAQ

● The aperture display in the viewfinder blinks.

The exposure is correct, but the desired depth of field cannot be obtained. Either use a wide-angle lens or move farther away from the subjects.

● The shutter speed display in the viewfinder blinks.

If the "30" shutter speed blinks, it means that the subject is too dark. Increase the ISO speed. If the "4000" shutter speed blinks, it means that the subject is too bright. Decrease the ISO speed.

● A slow shutter speed has been set.

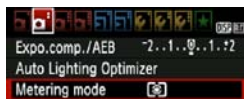
Use a tripod to steady the camera.

● I want to use flash.

Flash can be used, however, the result will be the same as using the <P> mode with flash. The desired depth of field will not be obtained.

Changing the Metering Mode ☆

Three 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.



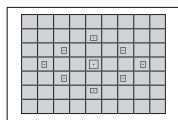
1 Select [Metering mode].

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



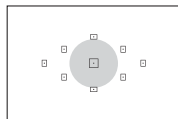
2 Set the metering mode.

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



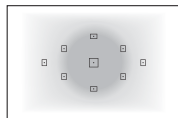
Evaluative metering

This is an all-around metering mode suited for portraits and even backlit subjects. The camera sets the exposure automatically to suit the scene.



Partial metering

Effective when the background is much brighter than the subject due to backlighting, etc. The gray area in the left figure is where the brightness is metered to obtain the standard exposure.



Center-weighted average metering

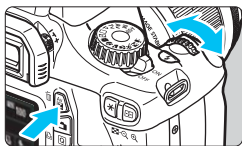
The brightness is metered at the center and then averaged for the entire scene. This metering mode is for advanced users.

 With , the exposure setting will be locked when you press the shutter button halfway and focus is achieved. With  and , the exposure setting is set at the moment of exposure. (The exposure setting is not locked when you press the shutter button halfway.)

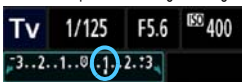
Setting Exposure Compensation ☆

Av Setting Exposure Compensation

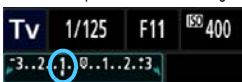
Set exposure compensation if the exposure (without flash) does not come out as desired. This feature can be used in Creative Zone modes (except <M>). You can set the exposure compensation up to ± 5 stops in 1/3-stop increments.



Increased exposure for a brighter image



Decreased exposure for a darker image



Dark exposure



Increased exposure for a brighter image

Making it brighter:

Hold down the <Av> button and turn the <> dial to the right.
(Increased exposure)

Making it darker:

Hold down the <Av> button and turn the <> dial to the left.
(Decreased exposure)

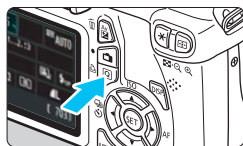
- ▶ As shown in the figure, the exposure level is displayed on the LCD monitor and in the viewfinder.
- After taking the picture, cancel the exposure compensation by setting it back to 0.



- 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 <▶>.
- The exposure compensation can also be set with [ Expo. comp./AEB] (p.103). If you will set exposure compensation exceeding ± 2 stops, you should use [ Expo. comp./AEB] to set it.

Flash Exposure Compensation

Set flash exposure compensation if the flash exposure of the subject does not come out as desired. You can set the flash exposure compensation up to ± 2 stops in 1/3-stop increments.



1 Press the button. (p.10)

- ▶ The Quick Control screen will appear (p.40).



2 Select .

- Press the  key to select .
- ▶ [Flash exposure comp.] will be displayed at the bottom.



3 Set the flash exposure compensation amount.

- To make the flash exposure brighter, turn the  dial to the right. (Increased exposure)
To make it darker, turn the  dial to the left. (Decreased exposure)
- ▶ When you press the shutter button halfway, the  icon will appear in the viewfinder.
- After taking the picture, cancel the flash exposure compensation by setting it back to 0.

 If [ Auto Lighting Optimizer] (p.107) is set to any setting other than [Disable], the image may look bright even if a decreased exposure compensation or decreased flash exposure compensation has been set.

 You can also set flash exposure compensation with [Built-in flash func. setting] in [ Flash control] (p.167).

MENU Auto Exposure Bracketing ☆

This feature takes exposure compensation a step further by varying the exposure automatically (up to ± 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).



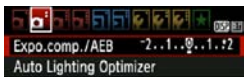
Standard exposure



Darker exposure
(Decreased exposure)

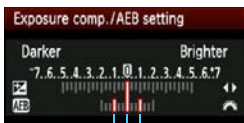


Brighter exposure
(Increased exposure)



1 Select [Expo. comp./AEB].

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



2 Set the AEB amount.

- Turn the <WHEEL> dial to set the AEB amount.
- Press the <◀▶> key to set the exposure compensation amount. If AEB is combined with exposure compensation, AEB will be applied centering on the exposure compensation amount.
- Press <SET> to set it.
- When you press the <MENU> button to exit the menu, the AEB level will be displayed on the LCD monitor.

AEB amount



3 Take the picture.

- Focus and press the shutter button completely. The three bracketed shots will be taken in this sequence: Standard exposure, decreased exposure, and increased exposure.

Canceling AEB

- Follow steps 1 and 2 to turn off the AEB amount display.
- The AEB setting will also be canceled automatically if the power switch is set to <OFF>, flash recycling is completed, etc.



Shooting Tips

● Using AEB with continuous shooting:

If <[]> continuous shooting (p.86) has been set and you press the shutter button completely, the three bracketed shots will be taken continuously in this sequence: Standard exposure, decreased exposure, and increased exposure.

● Using AEB with <[]> single shooting:

Press the shutter button three times to take the three bracketed shots. The three bracketed shots will be exposed in the following sequence: Standard exposure, decreased exposure, and increased exposure.

● Using AEB with the self-timer:

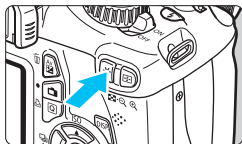
If you use the self-timer <[]> <[]> (p.87), the three bracketed shots will be taken continuously after 10 sec. or 2 sec. With <[]> (p.87) set, the number of continuous shots will be three times the number set.



- Neither flash nor bulb exposures can be used with AEB.
- If [] Auto Lighting Optimizer (p.107) is set to any setting other than [Disable], the AEB's effect might be minimal.

* Locking the Exposure ☆

You can lock the exposure when the area of focus is to be different from the exposure metering area or when you want to take multiple shots at the same exposure setting. Press the < * > button to lock the exposure, then recompose and take the shot. This is called AE (autoexposure) lock. It is effective for backlit subjects.



1 Focus the subject.

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

2 Press the < * > button. (1/4)

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



3 Recompose and take the picture.

- If you want to maintain the AE lock while taking more shots, hold down the < * > button and press the shutter button to take another shot.



AE Lock Effects

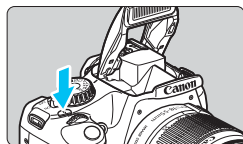
Metering Mode (p.100)	AF Point Selection Method (p.83)	
	Automatic Selection	Manual Selection
*	AE lock is applied at the AF point that achieved focus.	AE lock is applied at the selected AF point.
	AE lock is applied at the center AF point.	

* When the lens' focus mode switch is set to <MF>, AE lock is applied at the center AF point.

✱ Locking the Flash Exposure ☆

If the subject is on the side of the frame and you use flash, the subject may turn out to be too bright or dark depending on the background, etc. This is when you should use FE lock. After setting the proper flash exposure for the subject, 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.

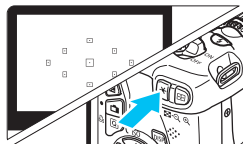


1 Press the <⚡> button.

- ▶ The built-in flash will rise.
- Press the shutter button halfway and look in the viewfinder to check that the <⚡> icon is lit.



2 Focus the subject.



3 Press the <✱> 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 <⚡✱> will light.
- Each time you press the <✱> button, a preflash is fired and the required flash output is calculated and retained in memory.



4 Take the picture.

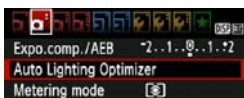
- Compose the shot and press the shutter button completely.
- ▶ The flash is fired when the picture is taken.



❗ If the subject is too far away and beyond the effective range of the flash, the <⚡> icon will blink. Get closer to the subject and repeat steps 2 to 4.

MENU Correcting the Brightness and Contrast Automatically ☆

If the image comes out dark or the contrast is low, the brightness and contrast can be corrected automatically. This feature is called Auto Lighting Optimizer. The default setting is **[Standard]**. With JPEG images, the correction is done when the image is captured. For RAW images, it can be corrected with Digital Photo Professional (provided software, p.264).



1 Select [Auto Lighting Optimizer].

- Under the [] tab, select **[Auto Lighting Optimizer]**, then press **<SET>**.



2 Select the setting.

- Select the desired setting, then press **<SET>**.

3 Take the picture.

- The image will be recorded with the brightness and contrast corrected if necessary.



Without correction



With correction



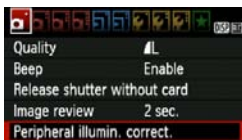
- Under [**C.Fn**: Custom Functions (C.Fn)], if [**5: Highlight tone priority**] is set to [**1: Enable**], the Auto Lighting Optimizer will be set automatically to [**Disable**] and you cannot change this setting.
- Depending on the shooting conditions, noise might increase.
- If a setting other than [**Disable**] is set and you use exposure compensation, flash exposure compensation, or manual exposure to darken the exposure, the image might still come out bright. If you want a darker exposure, set **[Auto Lighting Optimizer]** to [**Disable**] first.



In Basic Zone modes, **[Standard]** is set automatically.

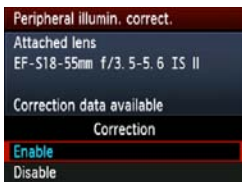
MENU Correcting the Image's Dark Corners

Due to the lens characteristics, the four corners of the picture might look darker. This phenomenon is called lens light fall-off or drop in peripheral illumination and can be corrected automatically. The default setting is **[Enable]**. With JPEG images, the correction is done when the image is captured. For RAW images, it can be corrected with Digital Photo Professional (provided software, p.264).



1 Select [Peripheral illumin. correct.].

- Under the [] tab, select **[Peripheral illumin. correct.]**, then press <SET>.



2 Select the setting.

- On the screen, check that **[Correction data available]** is displayed for the attached lens.
- If **[Correction data not available]** is displayed, see "About the Lens Correction Data" on the next page.
- Select **[Enable]**, then press <SET>.

3 Take the picture.

- The image will be recorded with the corrected peripheral illumination.



Correction disabled



Correction enabled

About the Lens Correction Data

The camera already contains lens peripheral illumination correction data for about 25 lenses. In step 2, if you select **[Enable]**, the peripheral light correction will be applied automatically for any lens whose correction data has been registered in the camera.

With EOS Utility (provided software, p.264), 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, see the PDF Software Instruction Manual (on DVD-ROM) for EOS Utility (p.267).



- For JPEG images already captured, lens peripheral illumination correction cannot be applied.
- Depending on shooting conditions, noise might appear on the image periphery.
- When using a non-Canon lens, setting the correction to **[Disable]** is recommended, even if **[Correction data available]** is displayed.



- Lens peripheral light correction is also applied when an Extender is attached.
- If the correction data for the attached lens has not been registered to the camera, the result will be the same as when the correction is set to **[Disable]**.
- The correction amount applied will be slightly lower than the maximum correction amount settable with Digital Photo Professional (provided software).
- If the lens does not have distance information, the correction amount will be lower.
- The higher the ISO speed, the lower the correction amount will be.

Customizing Image Characteristics ☆

You can customize a Picture Style by adjusting individual parameters like **[Sharpness]** and **[Contrast]**. To see the resulting effects, take test shots. To customize **[Monochrome]**, see page 112.



1 Select [Picture Style].

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



2 Select a Picture Style.

- Select a Picture Style, then press the **<DISP.>** button.
- The Detail set. screen will appear.



3 Select a parameter.

- Select a parameter such as **[Sharpness]**, then press **<SET>**.



4 Set the parameter.

- Press the **<◀▶>** key to adjust the parameter as desired, then press **<SET>**.
- Press the **<MENU>** button to save the adjusted parameters. The Picture Style selection screen will reappear.
- Any parameter settings different from the default will be displayed in blue.



Parameter Settings and Effects

Sharpness

Adjusts the sharpness of the image.

To make it less sharp, set it toward the **0** end. The closer it is to **0**, the softer the image will look.

To make it sharper, set it toward the **7** end. The closer it is to **7**, the sharper the image will look.

Contrast

Adjusts the image contrast and the vividness of colors.

To decrease the contrast, set it toward the minus end. The closer it is to **-**, the blander the image will look.

To increase the contrast, set it toward the plus end. The closer it is to **+**, the crisper the image will look.

Saturation

The image's color saturation can be adjusted.

To decrease the color saturation, set it toward the minus end. The closer it is to **-**, the more diluted the colors will look.

To increase the color saturation, set it toward the plus end. The closer it is to **+**, the bolder the colors will look.

Color tone

The skin tones can be adjusted.

To make the skin tone redder, set it toward the minus end. The closer it is to **-**, the redder the skin tone will look.

To make the skin tone less red, set it toward the plus end. The closer it is to **+**, the more yellow the skin tone will look.



- By selecting [**Default set.**] in step 3, you can revert the respective Picture Style to its default parameter settings.
- To shoot with the Picture Style you modified, follow step 2 on page 79 to select the modified Picture Style and then shoot.

Monochrome Adjustment

For Monochrome, you can also set **[Filter effect]** and **[Toning effect]** in addition to **[Sharpness]** and **[Contrast]** explained on the preceding page.

Filter Effect



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

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 look fine. Tree leaves will look crisper and brighter.

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

Toning Effect



By applying a toning effect, you can create a monochrome image in that color. It can make the image look more impressive.

You can select the following: **[N:None]**, **[S:Sepia]**, **[B:Blue]**, **[P:Purple]** or **[G:Green]**.

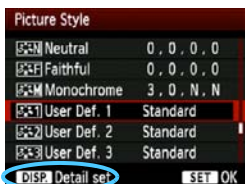
🔧 Registering Preferred Image Characteristics ☆

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].

You can create Picture Styles whose parameter settings such as sharpness and contrast are different. You can also adjust the parameters of a Picture Style which has been registered to the camera with EOS Utility (provided software, p.264).

1 Select [Picture Style].

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



2 Select [User Def.].

- Select [User Def. *], then press the <DISP.> button.
- The Detail set. screen will appear.



3 Press <SET>.

- With [Picture Style] selected, press <SET>.



4 Select the base Picture Style.

- Press the <▲▼> key to select the base Picture Style, then press <SET>.
- To adjust the parameters of a Picture Style which has been registered to the camera with EOS Utility (provided software), select the Picture Style here.



5 Select a parameter.

- Select a parameter such as **[Sharpness]**, then press <SET>.



6 Set the parameter.

- Press the <◀▶> key to adjust the parameter as desired, then press <SET>.
For details, see “Customizing Image Characteristics” on pages 110-112.



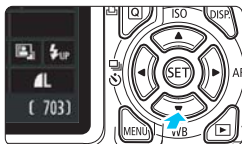
- Press the <MENU> button to register the modified Picture Style. The Picture Style selection screen will then reappear.
- ▶ The base Picture Style will be indicated on the right of **[User Def. *]**.
- ▶ The name of the Picture Style having any modified settings (different from the default) registered under **[User Def. *]** will be displayed in blue.

- ❗ If a Picture Style has already been registered under **[User Def. *]**, changing the base Picture Style in step 4 will nullify the parameter settings of the registered Picture Style.
- If you execute **[Clear all camera settings]** (p.164), all the **[User Def. *]** settings will revert to the default. Any Picture Style registered via EOS Utility (provided software) will have only its modified parameters reverted to the default setting.

📄 To shoot with a registered Picture Style, follow step 2 on page 79 to select **[User Def. *]** and then shoot.

WB: Matching the Light Source ☆

The function adjusting the color tone so that white objects look white in the picture is called white balance (WB). Normally, the <AWB> (Auto) setting will obtain the correct white balance. If natural-looking colors cannot be obtained with <AWB>, you can select the white balance to match the light source or set it manually by shooting a white object.

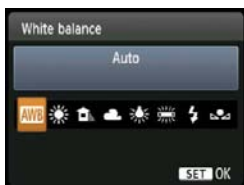


1 Press the <▼ WB> button.

- ▶ [White balance] will appear.

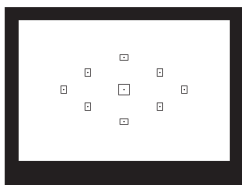
2 Select the white balance.

- Press the <◀▶> key or turn the <WB> dial to select the desired white balance, then press <SET>.
- The “Approx. ****K” (K: Kelvin) displayed for the following white balance settings <☀>, <🏠>, <☁>, <🌧> or <🌞> is the respective color temperature.



📷 Custom White Balance

Custom white balance enables you to manually set the white balance for a specific light source for better accuracy. Do this procedure under the actual light source to be used.



1 Photograph a white object.

- A plain, white object should fill the viewfinder's center.
- Focus manually and set the standard exposure for the white object.
- You can set any white balance.



2 Select [Custom White Balance].

- Under the [WB] tab, select [**Custom White Balance**], then press <SET>.
- The custom white balance selection screen will appear.



3 Import the white balance data.

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



4 Select the custom white balance.

- Press the <▼ WB> button.
- Select [WB], then press <SET>.

- If the exposure obtained in step 1 is way off, a correct white balance might not be obtained.
- If the image was captured while the Picture Style was set to [**Monochrome**] (p.80), it cannot be selected in step 3.

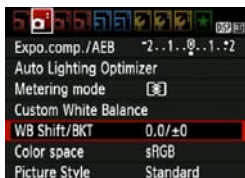
- Instead of a white object, an 18% gray card (commercially available) can produce a more accurate white balance.
- The personal white balance registered with EOS Utility (provided software, p.264) will be registered under <WB>. If you do step 3, the data for the registered personal white balance will be erased.

WB $\pm$ Adjusting the Color Tone for the Light Source ★

You can correct the white balance that has been 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.

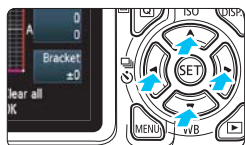
This is for advanced users who are familiar with using color temperature conversion or color compensating filters.

White Balance Correction



1 Select [WB Shift/BKT].

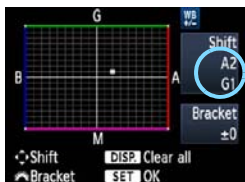
- Under the [WB] tab, select [WB Shift/BKT], then press $\langle \text{SET} \rangle$.
- The WB correction/WB bracketing screen will appear.



2 Set the white balance correction.

- Press the $\langle \blacklozenge \rangle$ key to move the “WB” mark to the desired position.
- B is for blue, A is amber, M is magenta, and G is green. The color in the respective direction will be corrected.
- On the upper right, “Shift” indicates the direction and correction amount.
- Pressing the $\langle \text{DISP.} \rangle$ button will cancel all the [WB Shift/BKT] settings.
- Press $\langle \text{SET} \rangle$ to exit the setting and return to the menu.

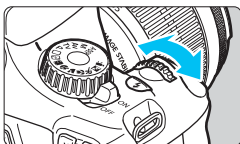
Sample setting: A2, G1



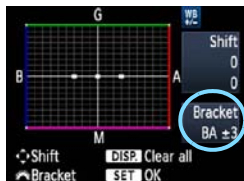
- During the white balance correction, $\langle \text{WB} \pm \rangle$ will be displayed in the viewfinder and on the LCD monitor.
- One level of the blue/amber correction is equivalent to 5 mireds of a color temperature conversion filter. (Mired: Measuring unit indicating the density of a color temperature conversion filter.)

White Balance Auto Bracketing

With just one shot, three images having a different color balance 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 or magenta/green bias. This is called white balance bracketing (WB-BKT). White balance bracketing is possible up to ± 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 to the right sets the B/A bracketing, and turning it to the left sets the M/G bracketing.
- ▶ On the right, "**Bracket**" indicates the bracketing direction and correction amount.
- Pressing the <DISP> 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 WB bracketing, the continuous shooting speed will be slower. The maximum burst for continuous shooting will also be lower and the number of possible shots will decrease to one-third the normal number.

- You can also set white balance correction and AEB (p.103) 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.
- Since three images are recorded for one shot, the card will take longer to record the shot.
- "**BKT**" stands for Bracketing.

MENU Setting the Color Reproduction Range ☆

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

1 Select [Color space].

- Under the [M] tab, select [Color space], then press <SET>.



2 Set the desired color space.

- Select [sRGB] or [Adobe RGB], then press <SET>.

About Adobe RGB

This color space is mainly used for commercial printing and other industrial uses. This setting is not recommended if you do not know about image processing, Adobe RGB, and Design rule for Camera File System 2.0 (Exif 2.21).

The image will look very subdued in a sRGB personal computer environment and with printers not compatible with Design rule for Camera File System 2.0 (Exif 2.21). Post-processing of the image with software will therefore be required.



- If the image is captured with the color space set to Adobe RGB, the file name will start with “_MG_” (first character is an underscore).
- The ICC profile is not appended. See explanations about the ICC profile in the PDF Software Instruction Manual (p.267) on the DVD-ROM.



5

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".

Live View shooting is effective for still subjects which do not move.

If you handhold the camera and shoot while viewing the LCD monitor, camera shake can cause blurred images. Using a tripod is recommended.



About Remote Live View Shooting

With EOS Utility (provided software, p.264) installed in your computer, you can connect the camera to the computer and shoot remotely while viewing the computer screen. For details, see the PDF Software Instruction Manual (p.267) on the DVD-ROM.

Shooting with the LCD Monitor



1 Display the Live View image.

- Press the  button.
- ▶ The Live View image will appear on the LCD monitor.
- The Live View image will closely reflect the brightness level of the actual image you capture.



2 Focus the subject.

- When you press the shutter button halfway, the camera will focus with the current AF mode (p.128-134).



3 Take the picture.

- Press the shutter button completely.
- ▶ The picture will be taken and the captured image is displayed on the LCD monitor.
- ▶ After the image review ends, the camera will return to Live View shooting automatically.
- Press the  button to exit Live View shooting.

- 
- The image's field of view is approx. 99% (when the image-recording quality is set to JPEG ).
 - The metering mode will be fixed to evaluative metering for Live View shooting.
 - In Creative Zone modes, you can check the depth of field by setting [8: Assign SET button] to [5: Depth-of-field preview] in the [ Custom Functions (C.Fn)].
 - During continuous shooting, the exposure set for the first shot will also be applied to subsequent shots.
 - Using <A-DEP> will be the same as using <P>.

Enabling Live View Shooting



Set [**Live View shoot.**] to [**Enable**].

In Basic Zone modes, [**Live View shoot.**] will be displayed under [], and in Creative Zone modes, it will be displayed under [].

Battery Life with Live View Shooting [Approx. number of shots]

Temperature	Shooting Conditions	
	No Flash	50% Flash Use
At 23°C / 73°F	240	220
At 0°C / 32°F	230	210

- The figures above are based on a fully-charged Battery Pack LP-E10 and CIPA (Camera & Imaging Products Association) testing standards.
- With a fully-charged Battery Pack LP-E10, continuous Live View shooting is possible for approx. 2 hr. at 23°C / 73°F and approx. 1 hr. 40 min. at 0°C / 32°F.



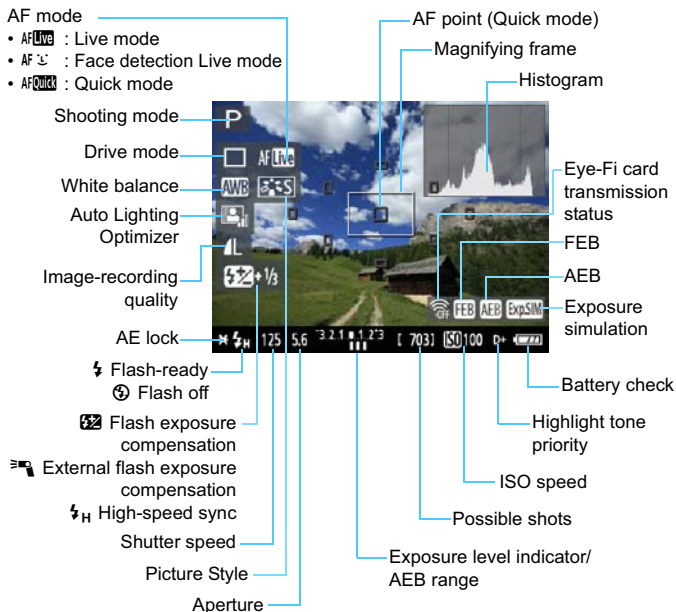
- During Live View shooting, do not point the lens toward the sun. The sun's heat can damage the camera's internal components.
- **Cautions for using Live View shooting are on pages 136-137.**



- When flash is used, there will be two shutter sounds, but only one shot will be taken.
- If the camera is not operated for a prolonged period, the power will turn off automatically as set with [**Auto power off**] (p.155). If [**Auto power off**] is set to [**Off**], the Live View function will terminate automatically after 30 min. (camera power remains on).
- With an HDMI cable (sold separately), you can display the Live View image on a TV (p.191).

About the Information Display

- Each time you press the <DISP.> button, the information display will change.



- When <Exp.SIM> is displayed in white, it indicates that the Live View image brightness is close to what the captured image will look like.
- If <Exp.SIM> is blinking, it indicates that the Live View image is not being displayed at the suitable brightness due to low- or bright-light conditions. However, the actual image recorded will reflect the exposure setting.
- If flash is used or bulb is set, the <Exp.SIM> icon and histogram will be grayed out (for your reference). The histogram might not be properly displayed in low- or bright-light conditions.

Final Image Simulation

The final image simulation reflects the effects of the Picture Style, white balance, etc., in the Live View image so you can see what the captured image will look like.

During still photo shooting, the Live View image will automatically reflect the settings listed below.

Final image simulation during Live View shooting

- Picture Style
 - * All parameters such as sharpness, contrast, color saturation, and color tone will be reflected.
- White balance
- White balance correction
- Shoot by ambience selection
- Shoot by lighting or scene type
- Exposure
- Depth of field preview (With C.Fn-8-5 set and  ON)
- Auto Lighting Optimizer
- Peripheral illumination correction
- Highlight tone priority

Shooting Function Settings

Function settings particular to Live View shooting are explained here.

Q Quick Control

While the image is displayed on the LCD monitor in Creative Zone modes, pressing the **<Q>** button will enable you to set the AF mode, drive mode, white balance, Picture Style, Auto Lighting Optimizer, image-recording quality, and ISO speed. In Basic Zone modes, you can set the AF mode and the settings shown in the table on page 63.



1 Press the <Q> button.

- ▶ The functions settable with Quick Control will appear on the left of the screen.
- If the AF mode is <AFQuick>, the AF point will also be displayed. You can also select the AF point.

2 Select a function and set it.

- Press the **<▲▼>** key to select a function.
- ▶ The selected function and Feature guide (p.47) will appear.
- Press the **<◀▶>** key or turn the **<☀>** dial to change the setting. Pressing **<SET>** will display the respective function's setting screen.



In Creative Zone modes, if **[9: Flash button function]** is set to **[1: ISO speed]** in **[4: Custom Functions (C.Fn)]**, you can raise the built-in flash with Quick Control. The ISO speed will be set with the **<4>** button.

Menu Function Settings



The menu options below are displayed.

In Basic Zone modes, the Live View menu options will be displayed under [📷], and in Creative Zone modes, they will be displayed under [📷].

- **Live View shooting**

You can set Live View shooting to [Enable] or [Disable].

- **AF mode**

You can select [Live mode] (p.128), [📷 Live mode] (p.129), or [Quick mode] (p.133).

- **Grid display**

With [Grid 1 1:1] or [Grid 2 2:3], you can display grid lines. It can help you level the camera vertically or horizontally.

- **Metering timer**★

You can change how long the exposure setting is displayed (AE lock time). This option is not displayed in Basic Zone modes. (Metering timer is fixed at 16 sec.)



- The settings for these menu options will apply only to Live View shooting. They do not take effect during viewfinder shooting.
- If you select [📷 Dust Delete Data], [🔧 Clean manually], [🔧 Clear settings], or [🔧 Firmware Ver.], the Live View shooting will terminate.

Changing the Autofocus Mode

Selecting the AF Mode

The AF modes available are [**Live mode**], [**Live mode**] (face detection, p.129), and [**Quick mode**] (p.133).

If you want to achieve precise focus, set the lens focus mode switch to **<MF>**, magnify the image, and focus manually (p.135).



Select the AF mode.

- Under the [**AF**] tab, select [**AF mode**].
- Select the desired AF mode, then press **<SET>**.
- While the Live View image is displayed, you can press the **<Q>** button to select the AF mode on the Quick Control screen (p.126).

Live Mode: AF Live

The image sensor is used to focus. Although AF is possible with the Live View image displayed, **the AF operation will take longer than with the Quick mode**. Also, achieving focus may be more difficult than with the Quick mode.

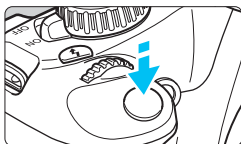


1 Display the Live View image.

- Press the **<LIVE>** button.
- ▶ The Live View image will appear on the LCD monitor.
- ▶ The AF point **<AF>** will appear.

2 Move the AF point.

- Press the **<AF-ON>** key to move the AF point to where you want to focus (it cannot go to the edges of the picture).
- To return the AF point to the center, press **<SET>**. (If C.Fn-8 has been set, press **<Av/AF-ON>** + **<SET>**.)



3 Focus 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.



4 Take the picture.

- Check the focus and exposure, then press the shutter button completely to take the picture (p.122).

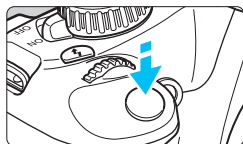
☺ (Face detection) Live Mode: AF ☺

With the same AF method as the Live mode, human faces are detected and focused. Have the target person face the camera.



1 Display the Live View image.

- Press the <📷> button.
- ▶ The Live View image will appear on the LCD monitor.
- When a face is detected, the <☺> frame will appear over the face to be focused.
- If multiple faces are detected, <<☺>> will be displayed. Press the <◀▶> key to move the <☺> frame over the desired target face.



2 Focus the subject.

- Press the shutter button halfway and the camera will focus the face covered by the <[]> 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.
- If a face cannot be detected, the AF point <[]> will be displayed and AF will be executed at the center.



3 Take the picture.

- Check the focus and exposure, then press the shutter button completely to take the picture (p.122).

- If the focus is way off, face detection will not be possible. If the lens enables manual focusing even while the lens focus mode switch is set to <AF>, turn the focusing ring to attain rough focus. The face will then be detected and <[]> will be displayed.
- An object other than a human face might 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, tilted horizontally or diagonally, or partially hidden.
- The <[]> focusing frame might cover only part of the face.

- When you press <SET>, the AF mode will switch to the Live mode (p.128). You can press the <[]> key to move the AF point. Press <SET> again to return to the 'L' (face detection) Live mode. (If C.Fn-8 has been set, press <Av[]> + <SET>.)
- Since AF is not possible with a face detected near the edge of the picture, the <[]> will be grayed out. Then if you press the shutter button halfway, the center AF point <[]> will be used to focus.

Live Mode and (Face Detection) Live Mode Notes

AF operation

- Focusing will take slightly longer.
- Even when focus has been achieved, pressing the shutter button halfway will focus again.
- The image brightness may change during and after the AF operation.
- If the light source changes while the Live View image is displayed, the screen might flicker and focusing may be difficult. If this happens, stop the Live View shooting and autofocus under the actual light source first.
- If you press the  button in the Live mode, the image will be magnified at the AF point. If focusing is difficult in the magnified view, return to the normal view and autofocus. Note that the AF speed may differ between the normal and magnified views.
- If you autofocus in the Live mode's normal view and then magnify the image, the focus might be off.
- In the  Live mode, pressing the  button will not magnify the image.



- In the Live mode or  (face detection) Live mode, if you shoot a peripheral subject and it is slightly out of focus, aim the center AF point over the subject to focus, then take the picture.
- The AF-assist beam will not be emitted. However, if an EX-series Speedlite (sold separately) equipped with a LED light is used, the LED light will turn on for AF-assist when necessary in the Live mode and  (face detection) Live mode.

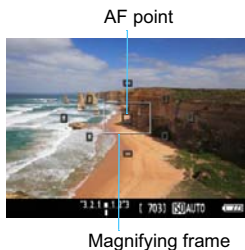
Shooting conditions which can make focusing difficult:

- Low-contrast subjects such as the blue sky and solid-color, flat surfaces.
- Subjects in low light.
- Stripes and other patterns where there is contrast only in the horizontal direction.
- Under a light source whose brightness, color, or pattern keeps changing.
- Night scenes or points of light.
- Under fluorescent lighting or when the image flickers.
- Extremely small subjects.
- Subjects at the edge of the picture.
- Subjects strongly reflecting light.
- The AF point covers both a near and faraway subject (such as an animal in a cage).
- Subjects which keep moving within the AF point and cannot keep still due to camera shake or subject blur.
- A subject approaching or moving away from the camera.
- Autofocusing while the subject is way out of focus.
- Soft focus effect is applied with a soft focus lens.
- A special effects filter is used.

Quick Mode: AFQuick

The dedicated AF sensor is used to focus in One-Shot AF mode (p.81), using the same AF method as with viewfinder shooting.

Although you can focus the target area quickly, **the Live View image will be interrupted momentarily during the AF operation.**



1 Display the Live View image.

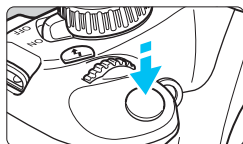
- Press the <  > button.
- ▶ The Live View image will appear on the LCD monitor.
- The small boxes on the screen are the AF points, and the larger box is the magnifying frame.



2 Select the AF point. ☆

- Press the <  > button () to display the Quick Control screen.
- ▶ The settable functions will be displayed on the left of the screen.
- Press the <  > key to make the AF point selectable.
- Turn the <  > dial to select the AF point.





3 Focus the subject.

- Aim the AF points over the subject and press the shutter button halfway.
- ▶ The Live View image will turn off, the reflex mirror will go back down, and AF will be executed.
- ▶ When focus is achieved, the AF point which achieved focus will turn green and the Live View image will reappear.
- ▶ If focus is not achieved, the AF point will turn orange and blink.



4 Take the picture.

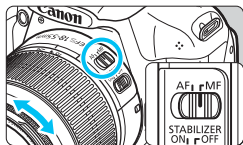
- Check the focus and exposure, then press the shutter button completely to take the picture (p.122).



 You cannot take a picture during autofocus. Take the picture while the Live View image is displayed.

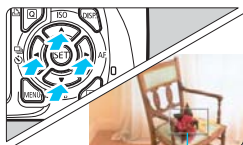
MF: Focusing Manually

You can magnify the image and focus precisely manually.



1 Set the lens focus mode switch to <MF>.

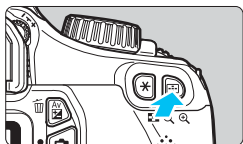
- Turn the lens focusing ring to focus roughly.



2 Move the magnifying frame.

- Press the <◇> key to move the magnifying frame to the position where you want to focus.
- To return the magnifying frame to the center, press <SET>. (If C.Fn-8 has been set, press <Av []> + <SET>.)

Magnifying frame



3 Magnify the image.

- Press the <Q> button.
- ▶ The area within the magnifying frame will be magnified.
- Each time you press the <Q> button, the view will change as follows:

→ 5x → 10x → Normal view



AE lock

Magnified area position

Magnification

4 Focus manually.

- While looking at the magnified image, turn the lens focusing ring to focus.
- After achieving focus, press the <Q> button to return to the normal view.

5 Take the picture.

- Check the focus and exposure, then press the shutter button to take the picture (p.122).



Live View Shooting Cautions

White <🔥> and Red <🔥> Internal Temperature Warning Icons

- If the camera's internal temperature increases due to prolonged Live View shooting or a high ambient temperature, a white <🔥> icon will appear. If you continue shooting while this icon is displayed, the image quality of still photos may deteriorate. You should stop the Live View shooting and allow the camera to cool down before shooting again.
- If the camera's internal temperature further increases while the white <🔥> icon is displayed, a red <🔥> icon will start blinking. This blinking icon is a warning that the Live View 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 with the Live View function at a high temperature for a prolonged period will cause the <🔥> and <🔥> icons to appear earlier. When not shooting, turn off the camera.

Live View Image Cautions

- Under low- or bright-light conditions, the Live View image might not reflect the brightness of the captured image.
- If the light source within the image changes, the screen might flicker. If this happens, stop the Live View shooting and resume shooting under the actual light source to be used.
- If you point the camera in a different direction, it might 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 picture, such as the sun, the bright area might appear black on the LCD monitor. However, the actual captured image will correctly show the bright area.
- In low light, if you set the [LCD brightness] to a bright setting, chrominance noise may appear in the Live View image. However, the chrominance noise will not be recorded in the captured image.
- When you magnify the image, the image sharpness may look more pronounced than it really is.



Live View Shooting Cautions

Shooting Result Cautions

- When you shoot continuously with the Live View function for a long period, the camera's internal temperature may increase and it can degrade image quality. Terminate Live View shooting when not shooting images.
- Before taking a long exposure, stop Live View shooting temporarily and wait several minutes before shooting. This is to prevent image degradation.
- Live View shooting in high temperatures and at high ISO speeds may cause noise or irregular colors.
- When you shoot at high ISO speeds, noise (banding, dots of light, etc.) may become noticeable.
- If you take the picture during magnified view, the exposure might not come out as desired. Return to the normal view before taking the picture. During the magnified view, the shutter speed and aperture will be displayed in orange. Even if you take the picture during magnified view, the image will be captured in the normal view.
- If **[ Auto Lighting Optimizer]** (p.107) is not set to **[Disable]**, the image may look bright even if a decreased exposure compensation or decreased flash exposure compensation has been set.
- If you use a TS-E lens to shift the lens vertically or use an Extension Tube, the standard exposure might not be obtained or an irregular exposure may result.

Custom Function Cautions

- During Live View shooting, certain Custom Function settings will not take effect (p.217).

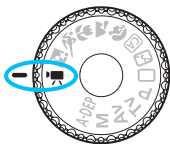
Lens and Flash Cautions

- The focus preset feature on super telephoto lenses cannot be used.
- FE lock is not possible when the built-in flash or an external Speedlite is used. Modeling flash will not work with an external Speedlite.



6

Shooting Movies



When you set the Mode Dial to , you can shoot High-Definition (HD) movies. The movie recording format will be MOV.

Cards which can record movies

When shooting movies, use a large-capacity SD card rated SD Speed Class 6 “CLASS 6” or higher.

If you use a slow-writing card when shooting movies, the movie might not be recorded properly. And if you playback a movie on a card having a slow reading speed, the movie might not playback properly.

To check the card's read/write speed, refer to the card manufacturer's Web site.

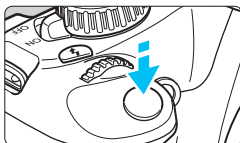
Shooting Movies

When you set the shooting mode to <>, you can easily shoot High-Definition (HD) movies with autoexposure. When playing movies, connecting the camera to a TV set is recommended (p.184, 191).



1 Set the Mode Dial to <>.

- ▶ The reflex mirror will make a sound, then the image will appear on the LCD monitor.

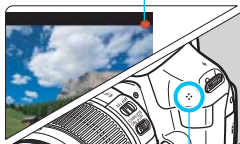


2 Focus the subject.

- Before shooting a movie, autofocus or manual focus (p.128-135).
- When you press the shutter button halfway, the camera will focus with the current AF mode.



Recording movie



Microphone

3 Shoot the movie.

- Press the <> button to start shooting a movie. To stop movie shooting, press <> again.
- ▶ While the movie is being shot, the “●” mark will be displayed on the upper right of the screen.



- In the movie shooting mode, you cannot take a still photo even if you press the shutter button completely.
- During movie shooting, do not point the lens toward the sun. The sun's heat can damage the camera's internal components.
- **Cautions for movie shooting are on pages 150 and 151.**
- **If necessary, also read the Live View shooting cautions on pages 136 and 137.**



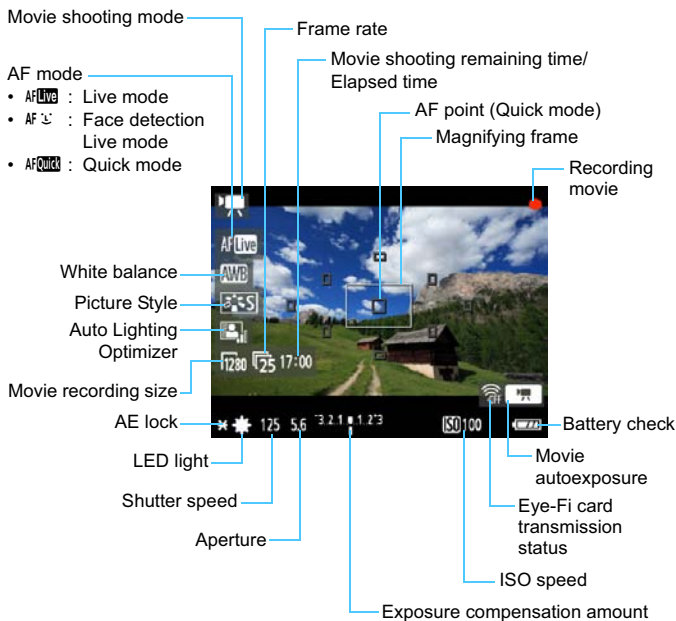
- A movie file is recorded each time you shoot a movie.
- The image's field of view is approx. 99%.
- The ISO speed, shutter speed, and aperture are set automatically.
- AE lock is possible by pressing the **<★>** button (p.105). To cancel AE lock during movie shooting, press the **<□>** button.
- By holding down the **<Av/☐>** button and turning the **<☀>** dial, you can set the exposure compensation.
- When you press the shutter button halfway, the exposure setting displayed at the screen bottom is for your reference.
- The sound will be recorded by the camera's built-in monaural microphone (p.140).
- The sound recording level will be adjusted automatically.
- With a fully-charged Battery Pack LP-E10, the total shooting time will be as follows: At 23°C/73°F: Approx. 1 hr. 50 min., At 0°C/32°F: Approx. 1 hr. 30 min.

Using an EX-series Speedlite (Sold Separately) Equipped with a LED Light

This camera is compatible with the function turning on the LED light automatically in low-light conditions. **For details, see the EX Speedlite's instruction manual.**

About the Information Display

- Each time you press the <DISP.> button, the information display will change.



- If there is no card in the camera, the movie shooting remaining time will be displayed in red.
- When movie shooting starts, the movie shooting remaining time will change to the elapsed time.

Final Image Simulation

The final image simulation reflects the effects of the Picture Style, white balance, etc., in the movie image so you can see what the captured movie will look like.

During movie shooting, the movie image will automatically reflect the settings listed below.

Final image simulation for movie shooting

- Picture Style
 - * All parameters such as sharpness, contrast, color saturation, and color tone will be reflected.
- White balance
- Exposure
- Depth of field
- Auto Lighting Optimizer
- Peripheral illumination correction
- Highlight tone priority

Shooting Function Settings

Function settings particular to movie shooting are explained here.

Quick Control

While the movie image is displayed on the LCD monitor, you can press the < > button to enable the following to be set: AF mode, white balance, Picture Style, and Auto Lighting Optimizer.



1 Press the < > button. (10)

- ▶ The functions settable with Quick Control will appear on the left of the screen.
- If the AF mode is <AF-Quick>, the AF point will also be displayed.

2 Select a function and set it.

- Press the < > key to select a function.
- ▶ The selected function and Feature guide (p.47) will appear.
- Press the < > key or turn the < > dial to change the setting. Pressing < > will display the respective function's setting screen.

MENU Menu Function Settings

The menu options displayed under the [M], [AF], and [AF-LOCK] tabs are explained below.

[AF] tab



- **AF mode**

The AF modes will be the same as described on pages 128-134. You can select **[Live mode]**, **[Live mode]**, or **[Quick mode]**. Note that continuous focusing of a moving subject is not possible.

- **AF with shutter button during movie (movie recording)**

When **[Enable]** is set, AF is possible during movie shooting. However, continuous autofocus is not possible. If you autofocus during movie shooting, you might momentarily throw the focus way off or change the exposure. The movie will also record the lens operation noise.

During movie shooting, if the **[Quick mode]** AF mode is set, AF will be executed in **[Live mode]**.



- The settings under the [M]/[AF]/[AF-LOCK] menu tabs will take effect only in the <[AF]> mode. They will not be applied in shooting modes other than the <[AF]> mode.
- The **[AF mode]** setting will also be applied to Live View shooting.

● **Shutter/AE lock button**

You can change the function assigned to the shutter button's halfway position and to the AE lock button.

• **AF/AE lock:**

Normal function. Press the shutter button halfway to execute AF. Press the <✳> button for AE lock.

• **AE lock/AF:**

Press the shutter button halfway for AE lock. For AF, press the <✳> button. Convenient when you want to focus and meter at different parts of the picture.

• **AF/AF lock, no AE lock:**

Press the shutter button halfway to execute AF. While you autofocus by pressing the shutter button halfway, you can pause the autofocus by holding down the <✳> button. You can resume the autofocus by letting go of the <✳> button. AE lock is not possible.

• **AE/AF, no AE lock:**

Press the shutter button halfway for metering. For AF, press the <✳> button. AE lock is not possible.

● **Highlight tone priority**

If **[Enable]** is set, highlight detail will be improved. The dynamic range is expanded from the standard 18% gray to bright highlights. The gradation between the grays and highlights becomes smoother. The settable ISO speed range will be ISO 200-6400. The Auto Lighting Optimizer will also be set automatically to **[Disable]** and cannot be changed.

[] tab



- **Movie recording size**

The movie will be recorded in [**1280x720**] High-Definition (HD) quality. You can select the frame rate [] or [] (recorded frames per second) to suit your TV set's video format.

* The frame rate is expressed as fps or frames per second.

[] : For areas where the TV video format is NTSC (North America, Japan, Korea, Mexico, etc.).

[] : For areas where the TV video format is PAL (Europe, Russia, China, Australia, etc.).

Total Movie Recording Time and File Size per Minute

- Due to the file system, movie shooting will stop automatically if the file size of a single movie clip reaches 4GB.
- You can immediately resume shooting another movie by pressing the < > button. (A new movie file starts being recorded.)

Movie-recording Size	Total Recording Time (approx.)			File Size (approx.)
	4GB Card	8GB Card	16GB Card	
[1280x720]	17 min.	34 min.	1 hr. 8 min.	222.6 MB/min.



- An increase of the camera's internal temperature may cause movie shooting to stop before the maximum recording time shown in the table above (p.150).
- The maximum recording time of one movie clip is 29 min. 59 sec.



- Movie shooting in Full High-Definition (Full HD) or Standard Definition (SD) quality is not possible.
- With ZoomBrowser EX/ImageBrowser (provided software, p.264), you can extract still photos from a movie. The quality of the extracted still photo will be [**1280x720**] for about 920,000 pixels.

- **Sound recording**

When the sound recording is set to **[On]**, sound will be recorded by the built-in monaural microphone. The sound recording level will be adjusted automatically. An external microphone cannot be used.

- **Metering timer**

You can change how long the exposure setting is displayed (AE lock time).

- **Grid display**

With **[Grid 1 ▬▬]** or **[Grid 2 ▬▬▬]**, you can display grid lines. It can help you level the camera vertically or horizontally.



- The sound will be recorded at a 48 kHz sampling frequency and 16-bit for both L and R.
- The Metering timer and Grid display settings will also be reflected in Live View shooting.

[] tab

- **Exposure compensation**

You can set exposure compensation for movies up to ± 3 stops in 1/3-stop increments.

- **Auto Lighting Optimizer**

The Auto Lighting Optimizer can be set as explained on page 107. If the [>] menu tab's [ Highlight tone priority] is set to [Enable], the Auto Lighting Optimizer will be set automatically to [Disable] and cannot be changed.

- **Custom White Balance**

As explained on page 115, the image for custom white balance can be selected. Note that still photos cannot be taken in the <> mode. Set a shooting mode other than <> and take a still photo. Then select it for the custom white balance.

- **Picture Style**

The Picture Style can be set as explained on pages 79.

- About the Red <⚠> Internal Temperature Warning Icon**
- If the camera's internal temperature is high, a blinking red icon <⚠> may appear. This blinking icon is a warning that the 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.
 - Movie shooting at a high temperature for a prolonged period will cause the <⚠> icon to appear sooner. When not shooting, turn off the camera.

Movie Shooting Cautions

Recording and Image Quality

- If the attached lens has an Image Stabilizer, the Image Stabilizer will operate at all times even if you do not press the shutter button halfway. The Image Stabilizer will thereby consume battery power and may shorten the total movie shooting time or decrease the number of possible shots. If you use a tripod or if the Image Stabilizer is not necessary, you should set the IS switch to <OFF>.
- The camera's built-in microphone will also record camera operation noise.
- If movie shooting is not possible due to insufficient remaining capacity of the card, the movie recording size and movie shooting remaining time (p.142) will be displayed in red.
- If you use a card having a slow writing speed, a five-level indicator might 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.



Indicator



Movie Shooting Cautions

Playback and TV connection

- If the brightness changes during movie shooting, that part might look momentarily still when you playback the movie.
- If you connect the camera to a TV set with an HDMI cable (p.191) and shoot a movie, the movie being shot will be displayed at a small size on the TV. But the movie will still be properly recorded in High-Definition (HD) quality.
- If you connect the camera to a TV set and shoot a movie, the TV will not output any sound during the shooting. However, the sound will be properly recorded.



7

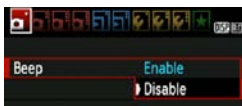
Handy Features

- Silencing the Beeper (p.154)
- Card Reminder (p.154)
- Setting the Image Review Time (p.154)
- Setting the Auto Power-off Time (p.155)
- Adjusting the LCD Monitor Brightness (p.155)
- Creating and Selecting a Folder (p.156)
- File Numbering Methods (p.158)
- Setting Copyright Information (p.160)
- Auto Rotation of Vertical Images (p.162)
- Checking Camera Settings (p.163)
- Reverting the Camera to the Default Settings (p.164)
- Turning the LCD Monitor Off/On (p.166)
- Changing the Shooting Settings Screen Color (p.166)
- Setting the Flash (p.167)
- Appending Dust Delete Data (p.171)
- Manual Sensor Cleaning (p.173)

Handy Features

MENU Silencing the Beeper

You can prevent the beeper from sounding when focus is achieved or during self-timer operation.



Under the [] tab, select **[Beep]**, then press <SET>. Select **[Disable]**, then press <SET>.

MENU Card Reminder

This prevents shooting if there is no card in the camera.



Under the [] tab, select **[Release shutter without card]**, then press <SET>. Select **[Disable]**, then press <SET>.

If there is no card installed 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 set how long the image is displayed on the LCD monitor immediately after capture. If **[Off]** is set, the image will not be displayed immediately after image capture. If **[Hold]** is set, the image review will be displayed up until the **[Auto power off]** time.

During image review, if you operate any camera controls such as pressing the shutter button halfway, the image review will end.



Under the [] 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 the set time of idle operation elapses. You can set this auto power-off time. When the camera has turned off due to auto power off, you can wake it up by pressing the shutter button halfway or pressing any of the following buttons: <MENU>, <▶>, <📷>, etc.

If [Off] has been set, either turn off the camera yourself or press the <DISP.> button to turn off the LCD monitor to save battery power.

Even if [Off] has been set and the camera is not used for 30 min., the LCD monitor will turn off automatically. To turn on the LCD monitor again, press the <DISP.> button.



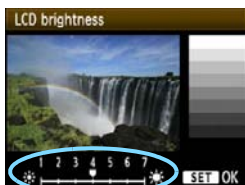
Under the [🔍] tab, select [Auto power off], then press <SET>. Select the desired setting, then press <SET>.

MENU Adjusting the LCD Monitor Brightness

You can adjust the brightness of the LCD monitor to make it easier to read.



Under the [🔍] tab, select [LCD brightness], then press <SET>. With the adjustment screen displayed, press the <◀▶> key to adjust the brightness, 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 reviewed image.

MENU Creating and Selecting a Folder

You can freely create and select the folder where the captured images are to be saved.

This is optional since a folder will be created automatically for saving captured images.

Create a Folder**1 Select [Select folder].**

- Under the [Y] tab, select [Select folder], then press <SET>.

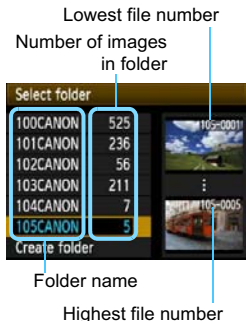
**2 Select [Create folder].**

- Select [Create folder], then press <SET>.

**3 Create a new folder.**

- Select [OK], then press <SET>.
- A new folder with a higher one-up folder number is created.

Selecting a Folder



- With the folder selection screen displayed, select a folder and press **<SET>**.
- ▶ The folder where the captured images will be saved is selected.
- Subsequent captured images will be recorded into the selected folder.

About Folders

As with **"100CANON"** for example, the folder name starts with three digits (folder number) followed by five alphanumeric characters. A folder can contain up to 9999 images (file No. 0001 - 9999). When a folder becomes full, a new folder with a higher one-up folder number is created automatically. Also, if manual reset (p.159) is executed, a new folder will be created automatically. Folders numbered from 100 to 999 can be created.

Creating Folders with a Personal 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 **"100ABC_D"** format where the first three digits is 100 - 999 followed by five alphanumeric characters. The five characters can be a combination of upper- or lower-case letters from A to Z, numerals, and an underscore **"_"**. There can be no space in the folder name. Also, folder names cannot have the same three-digit number such as **"100ABC_D"** and **"100W_XYZ"** even if the letters 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

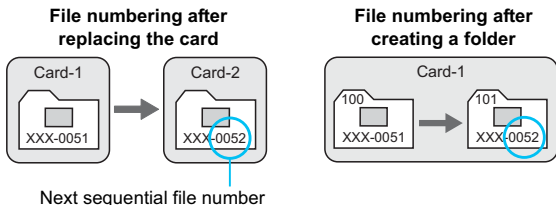


Under the [F] tab, select [**File numbering**], then press <SET>. The available settings are described below. Select one, then press <SET>.

- **[Continuous]: The file numbering continues in sequence even after you replace the card or create a folder.**

Even after you replace the card or create a new folder, the file numbering continues in sequence up to 9999. This is convenient when you want to save images numbered anywhere between 0001 to 9999 in multiple cards or folders into one folder in your personal computer.

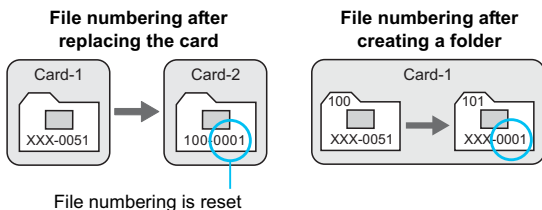
If the replacement card or existing folder already contains images recorded previously, the file numbering of the new images might continue from the file numbering of the existing images on the card or in the folder. If you want to use continuous file numbering, you should use a newly-formatted card each time.



- **[Auto reset]: The file numbering is reset to 0001 whenever you replace the card or create a folder.**

Whenever the card is replaced or a new folder created, the file numbering starts from 0001. This is convenient if you want to organize images according to cards or folders.

If the replacement card or existing folder already contains images recorded previously, the file numbering of the new images might 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]: To reset the file numbering to 0001 manually or to start from file number 0001 in a new folder.**

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 convenient if you want to use different folders for the images taken yesterday and the ones taken today, for example.

After the manual reset, the file numbering returns to continuous or auto reset. (There will be no Manual reset confirmation screen.)



If the file number in folder No. 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" for movies.

MENU Setting Copyright Information ☆

When you set the copyright information, it will be appended to the image as Exif information.

**1** Select [Copyright information].

- Under the [F:] tab, select [Copyright information], then press <SET>.

**2** Select the option to be set.

- Select [Enter author's name] or [Enter copyright details], then press <SET>.
- The text entry screen will appear.
- Select [Display copyright info.] to check the copyright information currently set.
- Select [Delete copyright information] to delete the copyright information currently set.

**3** Enter text.

- Refer to "Text Entry Procedure" on the next page and enter the copyright information.
- Enter up to 63 alphanumeric characters and symbols.

4 Exit the setting.

- After entering the text, press the <MENU> button to exit.

Text Entry Procedure



- **Changing the entry area:**
 Press the <Q> button to toggle between the top and bottom entry areas.
- **Moving the cursor:**
 Press the <◀▶> key to move the cursor.
- **Entering text:**
 In the bottom area, press the <◆> key or turn the <⚙> dial to select a character, then press <SET> to enter it.
- **Deleting a character:**
 Press the <🗑> button to delete one character.
- **Exiting:**
 After entering the text, press the <MENU> button to finalize the text entry and return to the screen in step 2.
- **Canceling the text entry:**
 To cancel the text entry, press the <DISP.> button to cancel it and return to the screen in step 2.



You can also set or check the copyright information with EOS Utility (provided software, p.264).

MENU Auto Rotation of Vertical Images

Vertical images are rotated automatically so they are displayed vertically on the camera's LCD monitor and on the personal computer instead of horizontally. The setting of this feature can be changed.



Under the [F] tab, select **[Auto rotate]**, then press <SET>. The available settings are described below. Select one, then press <SET>.

- **[On [camera icon]]** : The vertical image is automatically rotated during playback on both the camera's LCD monitor and on the computer.
- **[On [monitor icon]]** : The vertical image is automatically rotated only on the computer.
- **[Off]** : The vertical image is not automatically rotated.

? FAQ

- **The vertical image is not rotated during the image review immediately after it is captured.**
Press the <▶> button and the image playback will display the rotated image.
- **[On [camera icon]] 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 might not be rotated automatically for playback. In such a case, see "Rotating the Image" on page 179.
- **On the camera's LCD monitor, I want to rotate an image captured when [On [monitor icon]] had been set.**
Set **[On [camera icon]]**, then playback 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 the software provided with the camera instead.

DISP. Checking Camera Settings

While the menu is displayed, press the <DISP.> button to display the camera's major function settings.



- While the menu is displayed, press the <DISP.> button to display the settings.
- Press the <DISP.> button again to return to the menu.

Settings display

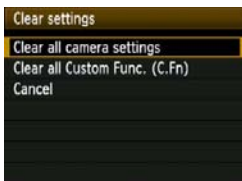
Freespace	1.90 GB	Card remaining capacity
Color space	sRGB	Color space (p.119)
WB Shift/BKT	0.0/±0	WB correction (p.117)/ WB bracketing (p.118)
Live View shoot.	Enable	Live View shooting (p.121)
30 sec.	Disable	Red-eye reduction (p.89)
Enable	On	Auto rotate display (p.162)
28/02/2011 13:30:00		Date/Time (p.33)
Beeper (p.154)		
Auto power off (p.155)		

MENU Reverting the Camera to the Default Settings ☆

The camera's shooting settings and menu settings can be reverted to the default. This can be done in Creative Zone modes.

**1 Select [Clear settings].**

- Under the [P:] tab, select **[Clear settings]**, then press <SET>.

**2 Select [Clear all camera settings].**

- Select **[Clear all camera settings]**, then press <SET>.

**3 Select [OK].**

- Select **[OK]**, then press <SET>.
- ▶ Setting **[Clear all camera settings]** will reset the camera to the default settings on the next page.

? FAQ**● Clearing all camera settings:**

After the procedure above, go to [P:] **Clear settings** and select **[Clear all Custom Func. (C.Fn)]** to clear all the Custom Function settings (p.216).

Shooting Settings

AF mode	One-Shot AF
AF point selection	Automatic selection
Drive mode	 (Single shooting)
Metering mode	 (Evaluative metering)
ISO speed	AUTO (Auto)
ISO Auto	Max.: 3200
Exposure compensation/AEB	Canceled
Flash exposure compensation	0 (Zero)
Custom Functions	Unchanged

Camera Settings

Auto power off	30 sec.
BEEP	Enable
Release shutter without card	Enable
Image review	2 sec.
Histogram	Brightness
Image jump w/ 	 (10 images)
Auto rotate	On  
LCD brightness	    
LCD off/on button	Shutter button
Date/Time	Unchanged
Language	Unchanged
Feature guide	Enable
Copyright information	Unchanged
Control over HDMI	Disable
Eye-Fi transmission	Disable
My Menu settings	Unchanged

Live View Shooting Settings

Live View shooting	Enable
AF mode	Live mode
Grid display	Off
Metering timer	16 sec.

Image-recording Settings

Quality	 L
Picture Style	Standard
Auto Lighting Optimizer	Standard
Peripheral illumination correction	Enable/ Correction data retained
Color space	sRGB
White balance	 (Auto)
Custom white balance	Canceled
WB correction	Canceled
WB-BKT	Canceled
File numbering	Continuous
Dust Delete Data	Erased

Movie Shooting Settings

AF mode	Live mode
AF w/ shutter button during 	Disable
 Shutter/AE lock button	AF/AE lock
 Highlight tone priority	Disable
Movie recording size	Unchanged
Sound recording	On
Metering timer	16 sec.
Grid display	Off
Exposure compensation	Canceled
Auto Lighting Optimizer	Standard
Custom white balance	Canceled
Picture Style	Standard

MENU Turning the LCD monitor Off/On

The shooting settings display (p.46) can be turned on or off by pressing the shutter button halfway.



Under the [F] tab, select **[LCD off/on btn]**, then press <SET>. The available settings are described below. Select one, then press <SET>.

- **[Shutter btn.]** : 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.
- **[Shutter/DISP]**: When you press the shutter button halfway, the display will turn off. And when you let go of the shutter button, the display will remain off. 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 display, press the <DISP.> button.

MENU Changing the Shooting Settings Screen Color

You can change the background color of the shooting settings screen.



Under the [F] tab, select **[Screen color]**, then press <SET>. Select the desired color, then press <SET>.

When you exit the menu, the selected color will be displayed for the shooting settings screen.



MENU Setting the Flash ☆

The built-in flash and external Speedlite settings can be set with the camera's menu. You can use the camera's menu to set the external Speedlite function settings only if the attached **EX-series Speedlite** is **compatible with this function**.

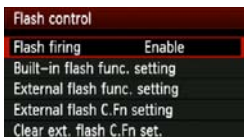
The setting procedure is the same as setting a camera menu function.



Select [Flash control].

- Under the [] tab, select [Flash control], then press <SET>.
- The flash control screen will appear.

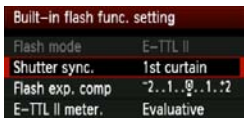
[Flash firing]



- Normally, set this to [Enable].
- If [Disable] is set, neither the built-in flash nor the external Speedlite will fire. This is useful when you only want to use the flash's AF-assist beam.

[Built-in flash func. setting] and [External flash func. setting]

With [Built-in flash func. setting] and [External flash func. setting], you can set the functions listed on the next page. The functions displayed under [External flash func. setting] will vary depending on the Speedlite model.



- Select [Built-in flash func. setting] or [External flash func. setting].
- The flash functions will be displayed. The functions not dimmed can be selected and set.



Even if [Flash firing] has been set to [Disable], if focus is difficult to achieve in low light, the built-in flash may still fire a series of flashes (AF-assist beam, p.84).

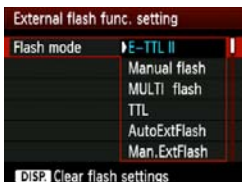
[Built-in flash func. setting] and [External flash func. setting] Settable Functions

Function	[Built-in flash func. setting]	[External flash func. setting]	Page
Flash mode	E-TTL II (Fixed)	○	168
Shutter sync.		○	169
FEB*	—	○	—
Flash exposure compensation		○	102
E-TTL II meter.		○	169
Zoom*	—	○	—
Wireless setting*	—	○	—

* Regarding **[FEB]** (Flash exposure bracketing), **[Zoom]**, and **[Wireless set.]**, refer to the Speedlite's instruction manual.

● Flash mode

With an external Speedlite, you can select the flash mode suiting your objective.



- **[E-TTL II]** is the standard mode of EX-series Speedlites for automatic flash shooting.
- **[Manual flash]** enables you to set the flash output yourself. This is for advanced users.
- For other flash modes, refer to your Speedlite's instruction manual.

- **Shutter sync.**

Normally, set this to **[1st curtain]** so that the flash fires immediately after the exposure starts.

If **[2nd curtain]** is set, the flash will fire right before the exposure ends. When this is combined with a slow sync speed, you can create a trail of light such as from car headlights at night. With 2nd-curtain sync, a preflash is fired when you press the shutter button completely. This is to determine the exposure. Then immediately before the exposure ends, the real flash is fired. Therefore, two flashes will be fired. However, with shutter speeds faster than 1/30 sec., 1st curtain sync will automatically take effect.

If an external Speedlite is attached, you can also set **[Hi-speed]**. For details, see the Speedlite's instruction manual.

- **Flash exposure compensation**

See “ Flash Exposure Compensation” on page 102.

- **E-TTL II flash metering**

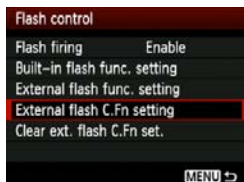
For normal flash exposures, set it to **[Evaluative]**. **[Average]** is for advanced users. As with an external Speedlite, the metering area is averaged. Flash exposure compensation may be necessary.

- **Clear flash settings**

On the **[External flash func. setting]** screen, press the <DISP.> button to display the screen to clear the flash settings. **When you select [OK], the settings for the built-in flash and external Speedlite will be cleared.**

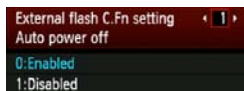
Setting the External Speedlite Custom Functions

The Custom Functions displayed under **[External flash C.Fn setting]** will vary depending on the Speedlite model.



1 Display the Custom Function.

- Select **[External flash C.Fn setting]**, then press **< (SET) >**.



2 Set the Custom Function.

- Press the **< ◀ ▶ >** key to select the function number, then set the function. The procedure is the same as setting the camera's Custom Functions (p.216).
- To clear all the Custom Function settings, select **[Clear ext. flash C.Fn set.]** in step 1.

MENU Appending Dust Delete Data ☆

Dust entering the camera can adhere to the image sensor and cause dust spots to be visible on the captured images. To erase these dust spots, you can append the Dust Delete Data to the images. The Dust Delete Data is used by Digital Photo Professional (provided software, p.264) to erase the dust spots automatically.

Preparation

- Get a solid-white object (paper, etc.).
- Set the lens focal length to 50mm or longer.
- Set the lens focus mode switch to <MF> and set the focus to infinity (∞). If the lens has no distance scale, look at the front of the lens and turn the focusing ring clockwise all the way.

Obtain the Dust Delete Data



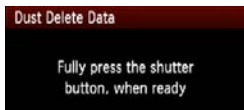
1 Select [Dust Delete Data].

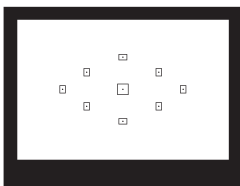
- Under the [Dust Delete Data] tab, select [Dust Delete Data], then press <SET>.



2 Select [OK].

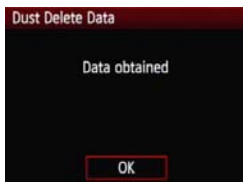
- Select [OK], then press <SET>. Instructions will appear.





3 Photograph 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 aperture-priority 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 was not obtained successfully, a message to that effect will appear. Follow the "Preparation" procedure on the preceding page, then select **[OK]**. Take the picture again.



About the 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, you should update the Dust Delete Data by obtaining it again.

For details about using Digital Photo Professional (provided software, p.264) to erase dust spots, see the PDF Software Instruction Manual (p.267) on the EOS Camera Instruction Manuals Disk.

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 paper has any pattern or design, it may be recognized as dust data and affect the accuracy of the dust deletion with the software.

MENU Manual Sensor Cleaning☆

If dust adhere to the image sensor and dust spots appear on the images, you can clean the image sensor yourself with a camera blower.

The surface of the image sensor is extremely delicate. If the sensor needs to be cleaned directly, having it done by a Canon Service Center is recommended.

Before cleaning the sensor, detach the lens from the camera.



1 Select [Clean manually].

- Under the [] tab, select [Clean manually], then press <SET>.



2 Select [OK].

- Select [OK], then press <SET>.
- ▶ In a moment, the reflex mirror will lockup and the shutter will open.

3 Clean the sensor.

4 End the cleaning.

- Set the power switch to <OFF>.



- For the power source, using AC Adapter Kit ACK-E10 (sold separately) is recommended.
- If you use a battery, make sure it is fully recharged.



- **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 might get damaged.**
 - **Setting the power switch to <OFF>.**
 - **Opening the card/battery compartment cover.**
- 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 might get damaged.
- Never use canned air or gas to clean the sensor. The blowing force can damage the sensor or the spray gas can freeze on the sensor.
- If the battery level becomes low while you clean 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.

8

Image Playback

This chapter explains features related to viewing photos and movies, going into more detail than in Chapter 2 “Basic Shooting and Image Playback.” Here you will find explanations about how to playback and erase photos and movies with the camera and viewing them on a TV set.

About images taken with another camera:

The camera might not be able to properly display images captured with a different camera or edited with a computer or whose file name was changed.

▶ Searching for Images Quickly

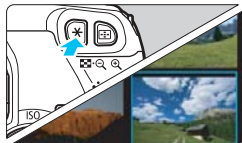
📷 Display Multiple Images on One Screen (Index display)

Search for images quickly with the index display showing four or nine images on one screen.



1 Playback the image.

- When you press the <▶> button, the last image captured will be displayed.



2 Switch to the index display.

- Press the <📷·Q> button.
- ▶ The 4-image index display will appear. The currently-selected image will be highlighted in a blue frame.
- Press the <📷·Q> button again to switch to the 9-image index display.
- Pressing the <Q> button will switch the display between 9 images, 4 images and one image displayed.

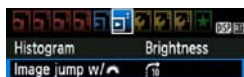


3 Select an image.

- Press the <⬆> key to move the blue frame to select an image.
- Turning the <🔧> dial will display the next screen or previous image.
- Press <SET> and the selected image will be displayed as a single image.

Jump through Images (Jump display)

With the single image display, you can turn the <  > dial to jump through the images forward or back according to the jump method that was set.



1 Select [Image jump w/].

- Under the [] tab, select [Image jump w/ ], then press < [SET] >.



2 Select the jump method.

- Press the <  > key to select the jump method, then press < [SET] >.
 - : Display images one by one
 - : Jump 10 images
 - : Jump 100 images
 - : Display by date
 - : Display by folder
 - : Display movies only
 - : Display stills only
 - : Display by image rating (p.180)
- Turn the <  > dial to select the rating.



Jump method

Playback position

3 Browse by jumping.

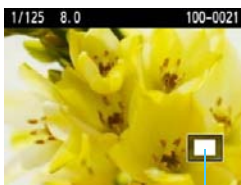
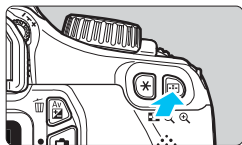
- Press the < [▶] > button to playback images.
- On the single-image display, turn the <  > dial.



- To search images according to the shooting date, select [Date].
- To search images according to folder, select [Folder].
- If the card contains both [Movies] and [Stills], select either one to display only movies or stills.
- If no images match the selected [Rating], browsing through the images with <  > is not possible.

/ **Magnified View**

You can magnify a shot image by 1.5x to 10x on the LCD monitor.



Magnified area position

1 Magnify the image.

- During image playback, press the  button.
- ▶ The image will be magnified.
- If you hold down the  button, the image will be magnified until it reaches the maximum magnification.
- Press the   button to reduce the magnification. If you hold down the button, the magnification will be reduced to the single image display.

2 Scroll around the image.

- Use the  key to scroll around the magnified image.
- To exit the magnified display, press the  button and the single image display will return.



- You can turn the  dial to view another image while the magnification is maintained.
- The image cannot be magnified during the image review immediately after shooting.
- A movie cannot be magnified.

Rotating the Image

You can rotate the displayed image to the desired orientation.



1 Select [Rotate].

- Under the [] tab, select [Rotate], then press <SET>.



2 Select an image.

- Press the <◀▶> key to select the image to be rotated.
- You can also select an image on the index display (p.176).



3 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 have set [ Auto rotate] to [On  ] (p.162) 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 [ Auto rotate] to [On  ].
- A movie cannot be rotated.

MENU Setting Ratings

You can rate images and movies with one of five rating marks: [★]/[★★]/[★★★]/[★★★★]/[★★★★★].



1 Select [Rating].

- Under the [Rating] tab, select [Rating], then press <SET>.



2 Select an image or movie.

- Press the <◀▶> key to select the image or movie to be rated.
- You can display three images by pressing the <[Grid Icon]•Q> button. To return to the single-image display, press the <Q> button.



3 Rate the image or movie.

- Press the <▲▼> key to select a rating mark.
- The total number of images and movies rated will be counted for each rating.
- To rate another image or movie, repeat steps 2 and 3.
- To exit and return to the menu, press the <MENU> button.



The number next to the rating marks ([★]/[★]/[★]/[★]/[★]) can only go up to 999. If there are 1,000 or more images for a rating, [###] will be displayed.

Taking advantage of ratings

- With the [Σ] **Image jump w/**  option, you can display only the rated images and movies.
- With the [Σ] **Slide show** option, you can playback only the rated images and movies.
- With Digital Photo Professional (provided software, p.264), you can select only the rated images and movies.
- With Windows Vista and Windows 7, you can see the rating with the file information display or the provided image viewer.

Quick Control During Playback

When you press the  button during image playback, you can set the following:  Protect images,  Rotate, ★ Rating,  Image jump w/ . Note that movies cannot be rotated ( Rotate).



1 Press the button.

- During image playback, press the  button.
- ▶ The functions settable with Quick Control will appear on the left of the screen.



2 Select a function and set it.

- Press the  key to select a function.
- ▶ The name and current setting of the selected function are displayed at the bottom.
- Set it by pressing the  key.

3 Exit the setting.

- Press the  button to turn off the Quick Control icons and function settings.

 To rotate an image, set  **Auto rotate** to . If  **Auto rotate** is set to  or **Off**, the  **Rotate** setting will be recorded to the image, but the camera will not rotate the image for display.



- Pressing the <> button during the index display will switch to the single-image display and the Quick Control icons will appear. Pressing the <> button again will return to the index display.
- For images taken with another camera, selectable functions may be limited.

Enjoying Movies

Basically, you can playback movies in the following three ways:

Playback on a TV set

(p.191)



An HDMI cable (sold separately) is necessary to connect the camera to a TV set. The TV set must also have an HDMI terminal.

When the camera is connected to a TV set with an HDMI cable, you can playback movies and still photos on the TV set. If you use a High-Definition TV set to playback High-Definition (HD) movies shot with this camera, you can watch the movies in high definition.

-  The camera does not have an audio/video OUT terminal. Therefore, the camera cannot be connected to a TV set with an analog AV cable.
- Movies on a card can be played only by devices compatible with MOV files.
- 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 nor saved.

 Using HDMI Cable HTC-100 (sold separately) is recommended.

Playback on the Camera's LCD Monitor (p.186-190)



You can playback movies on the camera's LCD monitor. You can also edit out the movie's first and last scenes, and playback the images and movies on the card in an automatic slide show.

! A movie edited with a personal computer cannot be rewritten to the card and played back with the camera.

Playback and Editing with a Personal Computer

(See the PDF file instruction manual for ZoomBrowser EX/ImageBrowser, p.267)



The movie files recorded on the card can be transferred to a personal computer and played or edited with ZoomBrowser EX/ImageBrowser (provided software, p.264).

You can also extract a single frame from a movie and save it as a still photo.

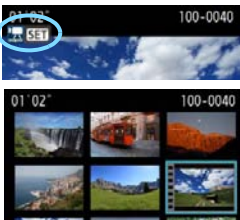
- !**
 - To have the movie playback smoothly on a personal computer, use a high-performance personal computer. Regarding the computer hardware requirements for ZoomBrowser EX/ImageBrowser, see the PDF file instruction manual.
 - If you want to use commercially-available software to playback or edit the movies, be sure it is compatible with MOV files. For details on commercially-available software, inquire the software maker.

▶▶ Playing Movies



1 Playback the image.

- Press the <▶> button to display images.



2 Select a movie.

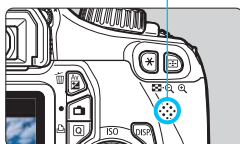
- Press the <◀▶> key to select a movie.
- On the single-image display, the <▶ SET> icon displayed on the upper left indicates a movie.
- On the index display, the perforation on the left edge of the image indicates a movie. **As movies cannot be played on the index display, press <SET> to switch to the single-image display.**

3 On the single-image display, press <SET>.

- ▶ The movie playback panel will appear on the bottom.



Speaker



4 Playback the movie.

- Select [▶] (Play), then press <SET>.
- ▶ The movie will start playing.
- You can pause the movie playback by pressing <SET>.
- During movie playback, you can turn the <◀▶> dial to adjust the built-in speaker's sound volume.
- For more details on the playback procedure, see the next page.

Function	Playback Description
 Exit	Returns to the single-image display.
 Play	Pressing <SET> toggles between play and stop.
 Slow motion	Adjust the slow motion speed by pressing the <◀▶> key. The slow-motion speed is indicated on the upper right.
 First frame	Displays the movie's first frame.
 Previous frame	Each time you press <SET>, a single previous frame is displayed. If you hold down <SET>, it will rewind the movie.
 Next frame	Each time you press <SET>, the movie will play frame-by-frame. If you hold down <SET>, it will fast forward the movie.
 Last frame	Displays the movie's last frame.
 Edit	Displays the editing screen (p.188).
	Playback position
mm' ss"	Playback time (minutes:seconds)
 Volume	You can adjust the built-in speaker's (p.186) sound volume by turning the <◀▶> dial.



- With a fully-charged Battery Pack LP-E10, the continuous playback time at 23°C/73°F will be as follows: Approx. 4 hr.
- During the single-image display, you can press the <DISP.> button to change the display format (p.199).
- If you connect the camera to a TV set (p.184, 191) to playback a movie, adjust the sound volume with the TV set. (Turning the <◀▶> dial will not adjust the sound volume.)
- This camera cannot playback Full High-Definition (Full HD) or High-Definition (HD) movies (60/50 fps frame rate) taken with another EOS camera. This camera can only playback High-Definition (HD) and Standard-Definition (SD) movies having a 30/25 fps frame rate.

✂ Editing a Movie's First and Last Scenes

You can edit out the first and last scenes of a movie in 1-sec. increments.



1 On the movie playback screen, select [✂].

▶ The editing screen will be displayed.



2 Specify the part to be edited out.

- Select either [✂] (Cut beginning) or [✂] (Cut end), then press <SET>.
- Press the <◀▶> key to see the previous or next frames. Holding it down will fast forward the frames.
- After deciding which part to edit out, press <SET>. The portion highlighted in blue on the top of the screen is what will remain.



3 Check the edited movie.

- Select [▶] and press <SET> to playback the portion highlighted in blue.
- To change the editing, go back to step 2.
- To cancel the editing, select [↶] and press <SET>.



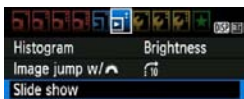
4 Save the movie.

- Select [↶], 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>.

- Since the editing is done in 1-sec. increments (position indicated by [✂]), the exact position where the movie is edited may differ slightly from the position you specified.
- If the card does not have enough room, [New file] will not be selectable.
- More movie editing functions are available with ZoomBrowser EX/ ImageBrowser (provided software, p.264).

MENU Slide Show (Auto Playback)

You can playback the images on the card as an automatic slide show.



1 Select [Slide show].

- Under the [] tab, select [Slide show], then press <SET>.

Number of images to be played



2 Select the images to be played.

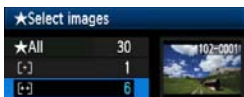
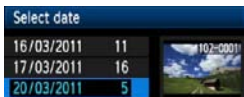
- Press the <▲▼> key to select the desired option, then press <SET>.

[All images/Movies/Stills]

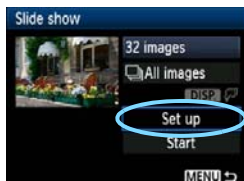
- Press the <▲▼> key to select one of the following: [] All images/ [] Movies/ [] Stills]. Then press <SET>.

[Date/Folder/Rating]

- Press the <▲▼> key to select one of the following: [] Date/ [] Folder/ [] Rating].
- When <DISP. []> is highlighted, press the <DISP.> button.
- Press the <▲▼> key to select the desired option, then press <SET>.



Item	Playback Description
[] All images	All the still photos and movies on the card will be played back.
[] Date	Still photos and movies taken on the selected shooting date will be played back.
[] Folder	Still photos and movies in the selected folder will be played back.
[] Movies	Only the movies on the card will be played back.
[] Stills	Only the still photos on the card will be played back.
★ Rating	Only the still photos and movies with the selected rating will be played back.



[Display time]



[Repeat]



[Transition effect]

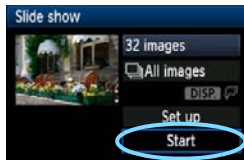


3 Set [Set up] as desired.

- Press the <▲▼> key to select [**Set up**], then press <SET>.
- Set the [**Display time**] (still photos), [**Repeat**], and [**Transition effect**].
- Then press the <MENU> button.

4 Start the slide show.

- Press the <▲▼> key to select [**Start**], then press <SET>.
- ▶ After [**Loading image...**] is displayed, the slide show will start.



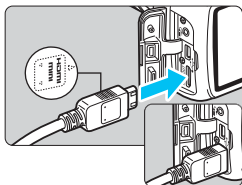
5 Quit the slide show.

- To quit the slide show and return to the setting screen, press the <MENU> button.

- To pause the slide show, press <SET>. During pause, [||] will be displayed on the upper left of the image. Press <SET> again to resume the slide show.
- During auto playback, you can press the <DISP.> button to change the still photo display format (p.70).
- During movie playback, you can adjust the sound volume by turning the <VOLUME> dial.
- During pause, you can press the <◀▶> key to view another image.
- During the slide show, auto power off will not take effect.
- The display time may vary depending on the image.
- To view the slide show on a TV set, see pages 191-193.

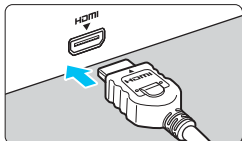
Playback on a High-Definition TV

An HDMI cable (sold separately) is necessary to connect the camera to a TV set. The TV set must also have an HDMI terminal. When the camera is connected to a TV set with an HDMI cable, you can playback movies and still photos on the TV set. If you use a High-Definition TV set to playback High-Definition (HD) movies shot with this camera, you can watch the movies in high definition.



1 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.



2 Connect the HDMI cable to the TV set.

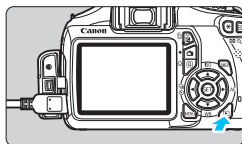
- Connect the HDMI cable to the TV's HDMI IN port.

3 Turn on the TV and switch the TV's video input to select the connected port.

4 Set the camera's power switch to <ON>.



- Adjust the movie's 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 television, turn off the camera and TV set.
- Depending on the TV set, part of the image displayed might be cut off.



5 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 TV's optimum resolution.
- By pressing the <DISP.> button, you can change the display format.
- To playback movies, see page 186.



- Do not connect any other device's output to the camera's <HDMI OUT> terminal. Doing so may cause a malfunction.
- Certain TVs might not be able to playback the captured images.

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.



1 Set [Ctrl over HDMI] to [Enable].

- Under the [▶] tab, select [Ctrl over HDMI], then press <SET>.
- Select [Enable], then press <SET>.

2 Connect the camera to a TV set.

- Use an HDMI cable to connect the camera to the TV.
- ▶ The TV's input will switch automatically to the HDMI port connected to the camera.

3 Press the camera's <▶> button.

- ▶ An image will appear on the TV screen and you can use the TV's remote control to playback images.

4 Select an image or movie.

- Point the remote control toward the TV set and press the ←/→ button to select an image.

Still photo playback menu



Movie playback menu



- : Return
- : 9-image index
- : Play movie
- : Slide show
- DISP. : Disp. shooting info
- : Rotate

5 Press the remote control's Enter button.

- ▶ The menu appears and you can do the playback operations shown on the left.
- Press the ←/→ button to select the desired option, then press the Enter button. For a slide show, press the remote control's ↑/↓ button to select an 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.



- Some TV sets require you to first enable the HDMI CEC connection. For details, see the TV set's instruction manual.
- Certain TV sets, even those compatible with HDMI CEC, may not operate properly. In such a case, disconnect the HDMI cable, set **[▶] Ctrl over HDMI** to **[Disable]**, and use the camera to control the playback operation.



Protecting Images

Protecting an image prevents it from being erased accidentally.

MENU Protecting a Single Image



1 Select [Protect images].

- Under the [] tab, select **[Protect images]**, then press <SET>.
- ▶ The protect setting screen will appear.



2 Select [Select images].

- Select **[Select images]**, then press <SET>.

Image protect icon



3 Protect the image.

- Press the <◀▶> key to select the image to be protected, then press <SET>.
- ▶ When an image is protected, the <[]> icon will appear on the top of the screen.
- To cancel the image protection, press <SET> again. The <[]> icon will disappear.
- To protect another image, repeat step 3.
- To exit the image protection, press the <MENU> button. The menu will reappear.

MENU Protecting All Images in a Folder or Card

You can protect all the images in a folder or card at one time.



When you select **[All images in folder]** or **[All images on card]** in **[MENU] Protect images**, all the images in the folder or card will be protected.

To cancel the image protection, select **[Unprotect all images in folder]** or **[Unprotect all images on card]**.



If you format the card (p.44), 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.197), only the protected images will remain. This is convenient when you want to erase unnecessary images all at once.

Erasing Images

You can either select and erase images one by one or erase them in one batch. Protected images (p.194) 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 a [RAW] +  L image will erase both the [RAW] and  L images.**

Erasing a Single Image



1 Playback the image to be erased.

2 Press the  button.

- ▶ The erase dialog will appear at the bottom of the screen.



3 Erase the image.

- Select [Erase], then press . The image displayed will be erased.

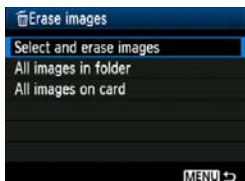
Checkmarking <✓> Images to be Erased in a Batch

By checkmarking the images to be erased, you can erase multiple images at one time.



1 Select [Erase images].

- Under the [] tab, select [Erase images], then press .



2 Select [Select and erase images].

- Select [**Select and erase images**], then press <SET>.
- ▶ The images will be displayed.
- To display the three-image display, press the <[]> button. To return to the single-image display, press the <[]> button.



3 Select the images to be erased.

- Press the <◀▶> key to select the image to be erased, then press the <▲▼> key.
- ▶ A <✓> checkmark will be displayed on the upper left.
- To select other images to be erased, repeat step 3.



4 Erase the images.

- Press the <[]> button.
- Select [**OK**], then press <SET>.
- ▶ The selected images will be erased.

MENU Erasing All Images in a Folder or Card

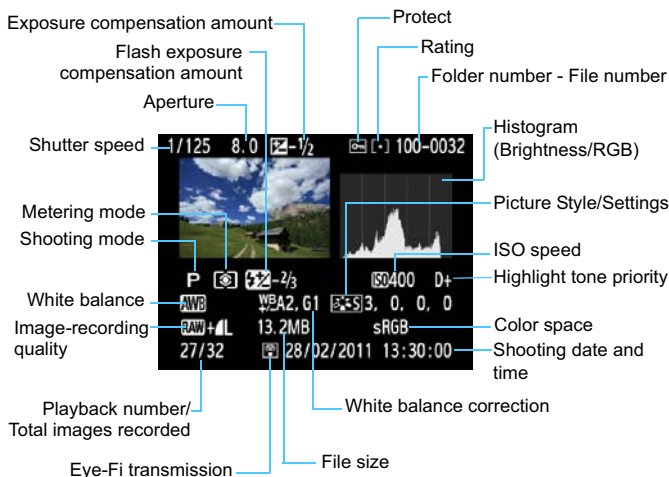
You can erase all the images in a folder or card at one time. When [**Erase images**] is set to [**All images in folder**] or [**All images on card**], all the images in the folder or card will be erased.



To also erase protected images, format the card (p.44).

DISP. Shooting Information Display

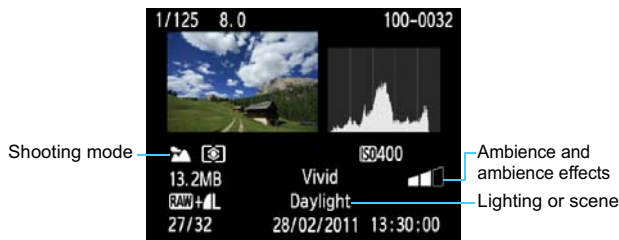
Sample Image Taken in a Creative Zone Mode



* With **RAW** + **L** images, the **RAW** file size is displayed.

* Photos taken with flash without any flash exposure compensation are marked with the **<F>** icon. Photos taken with flash exposure compensation are marked with the **<F>** icon.

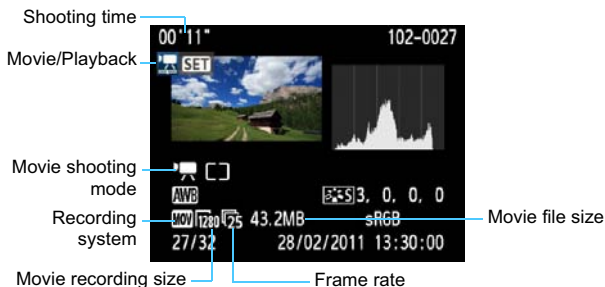
Sample Image Taken in a Basic Zone Mode



* For images taken in Basic Zone modes, the information displayed may differ depending on the shooting mode.

* Photos taken in the <CA> mode will show [Background blur].

Sample Movie Taken in Movie Mode



* The shutter speed, aperture, and ISO speed will not be displayed.

● About the Highlight Alert

When the shooting information is displayed, any overexposed areas of the image will blink. To obtain more image detail in the overexposed areas, set the exposure compensation to a negative amount and shoot again.

● About the 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 [].

[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. And 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. And 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, you can see the exposure level inclination and the overall gradation.

Sample Histograms



Dark image



Normal brightness



Bright image

[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. And the more pixels there are toward the right, the brighter and denser the color. If there are too many pixels on the left, the respective color information will be lacking. And if there are too many pixels on the right, the color will be too saturated with no detail. By checking the image's RGB histogram, you can see the color's saturation and gradation condition and white balance inclination.

9

Printing Images

- **Printing** (p.202)

You can connect the camera directly to a printer and print out the images on the card. The camera is compatible with “ PictBridge” which is the standard for direct printing.

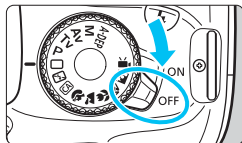
- **Digital Print Order Format (DPOF)** (p.211)

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 give the print order to a photofinisher.

Preparing to Print

The direct printing procedure is done entirely with the camera while you look at the LCD monitor.

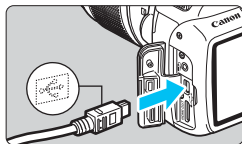
Connecting the Camera to a Printer



1 Set the camera's power switch to <OFF>.

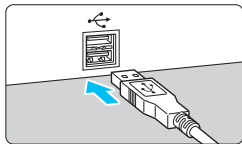
2 Set up the printer.

- For details, see the printer's instruction manual.

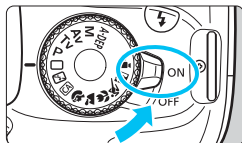


3 Connecting the camera to the printer.

- Use the interface cable provided with the camera.
- Connect the cable to the camera's <USB> terminal with the cable plug's <USB> icon facing the front of the camera.
- To connect to the printer, refer to the printer's instruction manual.



4 Turn on the printer.



5 Set the camera's power switch to <ON>.

- ▶ Some printers may make a beeping sound.

PictBridge



6 Playback the image.

- Press the <▶> button.
- ▶ The image will appear, and the <Pict> icon will appear on the upper left to indicate that the camera is connected to a printer.



- Movies cannot be printed.
- The camera cannot be used with printers compatible only with CP Direct or Bubble Jet Direct.
- Do not use any interface cable other than the one provided.
- If there is a long beeping sound in step 5, it indicates a problem with the printer. Resolve the problem displayed by the error message (p.210).



- You can also print RAW images taken with this camera.
- If you use a battery pack to power the camera, make sure it is fully charged. With a fully-charged battery, printing up to about 4 hr. 30 min. is possible.
- Before disconnecting the cable, first turn off the camera and printer. Hold the plug (not the cord) to pull out the cable.
- For direct printing, using AC Adapter Kit ACK-E10 (sold separately) to power the camera is recommended.

Printing

The screen display and setting options will differ depending on the printer. Some settings might not be available. For details, see the printer's instruction manual.



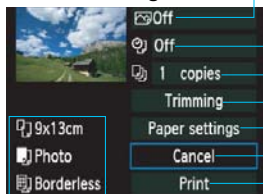
1 Select the image to be printed.

- Check that the <  > icon is displayed on the upper left of the LCD monitor.
- Press the < ◀▶ > key to select the image to be printed.

2 Press < SET >.

- ▶ The print setting screen will appear.

Print setting screen



Sets the printing effects (p.206).

Sets the date or file number imprinting to on or off.

Sets the quantity to be printed.

Sets the trimming (cropping) (p.209).

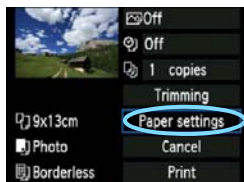
Sets the paper size, type, and layout.

Returns to the screen in step 1.

Starts the printing.

The paper size, type, and layout you have set are displayed.

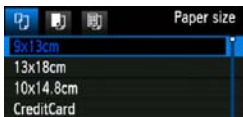
* Depending on the printer, certain settings such as the date and file number imprinting and trimming might not be selectable.



3 Select [Paper settings].

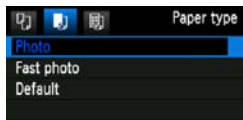
- Select [Paper settings], then press < SET >.
- ▶ The paper settings screen will appear.

Setting the Paper Size



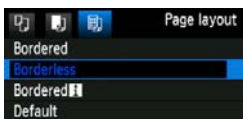
- Select the size of the paper loaded in the printer, then press **<SET>**.
- ▶ The paper type screen will appear.

Setting the Paper Type



- Select the type of the paper loaded in the printer, then press **<SET>**.
- When using a Canon printer and Canon paper, read the printer's instruction manual to check what paper types can be used.
- ▶ The page layout screen will appear.

Setting the Page Layout

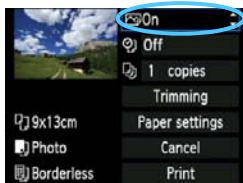


- Select the page layout, then press **<SET>**.
- ▶ The print setting screen will reappear.

Bordered	The print will have white borders along the edges.
Borderless	The print will have no borders. If your printer cannot print borderless prints, the print will have borders.
Bordered [i]	The shooting information* will be imprinted on the border on 9x13cm and larger prints.
xx-up	Option to print 2, 4, 8, 9, 16, or 20 images on one sheet.
20-up [i] 35-up [i]	Twenty or 35 images will be printed as thumbnails on A4 or Letter size paper* ¹ . • [20-up [i]] will have the shooting information* ² imprinted.
Default	The page layout will vary depending on the printer model or its settings.

*1: After ordering the prints with "Digital Print Order Format (DPOF)" (p.211), you should print by following "Direct Printing with DPOF" (p.214).

*2: From the Exif data, the camera name, lens name, shooting mode, shutter speed, aperture, exposure compensation amount, ISO speed, white balance, etc., will be imprinted.



4 Set the printing effects.

- Set as necessary. If you need not set any printing effects, go to step 5.
- **What is displayed on the screen differs depending on the printer.**
- Select the option on the upper right (circled in the screenshot), then press **<SET>**.
- Select the desired printing effect, then press **<SET>**.
- If the **<DISP>** icon is displayed brightly next to **<DISP>**, you can also adjust the printing effect (p.208).

Printing Effect	Description
On	The image will be printed according to the printer's standard colors. The image's Exif data is used to make automatic corrections.
Off	No automatic correction will be applied.
VIVID	The image will be printed with higher saturation to produce more vivid blues and greens.
NR	Image noise is reduced before printing.
B/W B/W	Prints in black-and-white with true blacks.
B/W Cool tone	Prints in black-and-white with cool, bluish blacks.
B/W Warm tone	Prints in black-and-white with warm, yellowish blacks.
Natural	Prints the image in the actual colors and contrast. No automatic color adjustments are applied.
Natural M	The printing characteristics are the same as the "Natural" setting. However, this setting enables finer printing adjustments than with "Natural."
Default	The printing will differ depending on the printer. For details, see the printer's instruction manual.

* When you change the printing effects, it is reflected in the image displayed on the upper left. Note that the printed image might look slightly different from the displayed image which is only an approximation. This also applies to [Brightness] and [Adjust levels] on page 208.



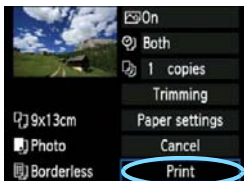
5 Set the date and file number imprinting.

- Set as necessary.
- Select <Both>, then press <SET>.
- Set as desired, then press <SET>.



6 Set the number of copies.

- Set as necessary.
- Select <1 copies>, then press <SET>.
- Set the number of copies, then press <SET>.



7 Start printing.

- Select [Print], then press <SET>.



- With Easy printing, you can print another image using the same settings. Just select the image and press the <Image> button. With Easy printing, the number of copies will always be 1. (You cannot set the number of copies.) Also, any trimming (p.209) will not be applied.
- The [Default] setting for printing effects and other options are the printer's own default settings as set by the printer's manufacturer. See the printer's instruction manual to find out what the [Default] settings are.
- Depending on the image's file size and image-recording quality, it may take some time for the printing to start after you select [Print].
- If image tilt correction (p.209) has been applied, it may take longer to print the image.
- To stop the printing, press <SET> while [Stop] is displayed, then select [OK].
- If you execute [Clear all camera settings] (p.164), all the settings will revert to the default.

Adjustment of Printing Effects



In step 4 on page 206, select the printing effect. When the is displayed brightly next to **<DISP.>**, you can press the **<DISP.>** button to adjust the printing effect. What can be adjusted or what is displayed will depend on the selection made in step 4.

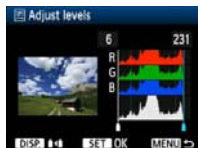
● **Brightness**

The image brightness can be adjusted.

● **Adjust levels**

When you select [**Manual**], you can change the histogram's distribution and adjust the image's brightness and contrast.

With the Adjust levels screen displayed, press the **<DISP.>** button to change the position of the . Press the **<◀▶>** key to freely adjust the shadow level (0 - 127) or highlight level (128 - 255).



● **Brightener**

Effective in backlit conditions which can make the subject's face look dark. When [**On**] is set, the face will be brightened for printing.

● **Red-eye corr.**

Effective in flash images where the subject has red eye. When [**On**] is set, the red eye will be corrected for printing.

- The [**Brightener**] and [**Red-eye corr.**] effects will not show on the screen.
- When you select [**Detail set.**], you can adjust the [**Contrast**], [**Saturation**], [**Color tone**], and [**Color balance**]. To adjust the [**Color balance**], use the **<◀▶>** keys. B is for blue, A is amber, M is magenta, and G is green. The color in the respective direction will be corrected.
- If you select [**Clear all**], all the printing effect settings will be reverted to the default.

Trimming the Image

Tilt correction



You can crop the image and print only the trimmed portion as if the image was recomposed. **Do the trimming right before printing.** If you set the trimming and then set the print settings, you may have to set the trimming again.

1 On the print setting screen, select [Trimming].

2 Set the trimming frame size, position, and aspect ratio.

- The image area within the trimming frame will be printed. The trimming frame's aspect ratio can be changed with **[Paper settings]**.

Changing the trimming frame size

When you press the  or  button, the size of the trimming frame will change. The smaller the trimming frame, the larger the image magnification will be for printing.

Moving the trimming frame

Press the  key to move the frame over the image vertically or horizontally. Move the trimming frame until it covers the desired image area.

Rotating the frame

Pressing the **<DISP.>** button will toggle the trimming frame between the vertical and horizontal orientations. This enables you to create a vertical-oriented print from a horizontal image.

Image tilt correction

By turning the  dial, you can adjust the image tilt angle up to ± 10 degrees in 0.5-degree increments. When you adjust the image tilt, the  icon on the screen will turn blue.

3 Press  to exit the trimming.

- ▶ The print setting screen will reappear.
- You can check the trimmed image area on the upper left of the print setting screen.

- 
- Depending on the printer, the trimmed image area might not be printed as you specified.
 - The smaller you make the trimming frame, the grainier the picture will look in the print.
 - While trimming the image, look at the camera's LCD monitor. If you look at the image on a TV screen, the trimming frame might not be displayed accurately.



Handling Printer Errors

If you resolve a printer error (no ink, no paper, etc.) and select **[Continue]** to resume printing but it does not resume, operate the buttons on the printer to resume printing. For details on resuming the printing, see the printer's instruction manual.

Error Messages

If a problem occurs during printing, an error message will appear on the camera's LCD monitor. Press **< (SET) >** to stop printing. After fixing the problem, resume printing. For details on how to fix a printing problem, refer to the printer's instruction manual.

Paper Error

Check whether the paper is properly loaded in the printer.

Ink Error

Check the printer's ink level, and check the waste ink tank.

Hardware Error

Check for any printer problems other than paper and ink problems.

File Error

The selected image cannot be printed via PictBridge. Images taken with a different camera or images edited with a computer might not be printable.

Digital Print Order Format (DPOF)

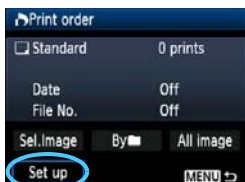
You can set the print type, date imprinting, and file No. imprinting. The print settings will be applied to all print-ordered images. (They cannot be set individually for each image.)

Setting the Printing Options



1 Select [Print order].

- Under the [] tab, select [Print order], then press <SET>.



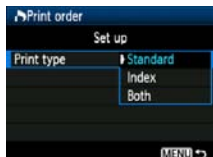
2 Select [Set up].

- Select [Set up], then press <SET>.

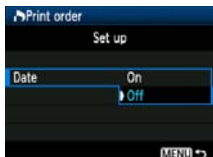
3 Set the option as desired.

- Set the [Print type], [Date], and [File No.].
- Select the option to be set, then press <SET>. Select the desired setting, then press <SET>.

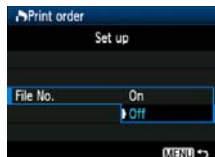
[Print type]



[Date]



[File No.]



Print type		Standard	Prints one image on one sheet.
		Index	Multiple thumbnail images are printed on one sheet.
		Both	Prints both the standard and index prints.
Date	On	[On]	imprints the recorded date on the print.
	Off		
File number	On	[On]	imprints the file No. on the print.
	Off		

4 Exit the setting.

- Press the <MENU> button.
- ▶ The print order screen will reappear.
- Next, select **[Sel.Image]**, **[By ■■■]**, or **[All image]** to order the images to be printed.

- 
- Even if **[Date]** and **[File No.]** are set to **[On]**, the date or file No. might not be imprinted depending on the print type setting and printer model.
 - When printing with DPOF, you must use the card whose print order specifications have been set. It will not work if you just extract images from the card and try to print them.
 - Certain DPOF-compatible printers and photofinishers might not be able to print the images as you specified. If this happens with your printer, refer to the printer's instruction manual. Or check with your photofinisher about compatibility when ordering prints.
 - Do not insert into the camera a card whose print order was set by a different camera and then try to specify a print order. The print order may not work or may be overwritten. Also, depending on the image type, the print order may not be possible.

- 
- RAW images and movies cannot be print ordered. You can print RAW images through direct printing (p.202).
 - With **[Index]** prints, both the **[Date]** and **[File No.]** cannot be set to **[On]** at the same time.

Print Ordering

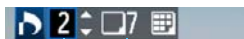
Sel.Image



Select and order images one by one.

To display the three-image display, press the <[Image icon] [Magnifying glass icon]> button. To return to the single-image display, press the <[Magnifying glass icon]> button.

After completing the print order, press the <MENU> button to save the print order to the card.



Quantity

Total images selected



Check mark

Index icon

[Standard] [Both]

Press the <[Up/Down arrow]> key to set the number of copies to be printed for the displayed image.

[Index]

Press the <[Up/Down arrow]> key to checkmark the box <[Check mark]> and the image will be included in the index print.

By [Folder icon]

Select **[Mark all in folder]** and select the folder. A print order for one copy of all the images in the folder will be placed. If you select **[Clear all in folder]** and select the folder, the print order for that folder will all be canceled.

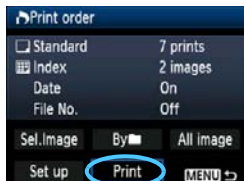
All image

If you select **[Mark all on card]**, one copy of all the images on the card will be set 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 and movies will not be included in the print order even if you set "By [Folder icon]" or "All image."
- When using a PictBridge printer, print no more than 400 images for one print order. If you specify more than this, all the images might not be printed.

Direct Printing with DPOF



With a PictBridge printer, you can easily print images with DPOF.

1 Prepare to print.

- See page 202. Follow the “Connecting the Camera to a Printer” procedure up to step 5.

2 Under the [] tab, select [Print order].

3 Select [Print].

- [Print] will be displayed only if the camera is connected to a printer and printing is possible.

4 Set the [Paper settings] (p.204).

- Set the printing effects (p.206) if necessary.

5 Select [OK].

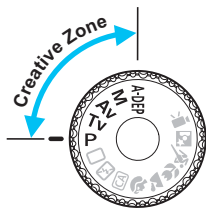
- Before printing, be sure to set the paper size.
- Certain printers cannot imprint the file No.
- If [Bordered] is set, certain printers might imprint the date on the border.
- Depending on the printer, the date might look light if it is imprinted on a bright background or on the border.

- Under [Adjust levels], [Manual] cannot be selected.
- If you stopped the printing and want to resume printing the remaining images, select [Resume]. Note that printing will not resume if you stop the printing and any of the following occurs:
 - Before resuming the printing, you changed the print order or deleted print-ordered images.
 - When you set the index, you changed the paper setting before resuming the printing.
 - When you paused the printing, the card's remaining capacity was low.
- If a problem occurs during printing, see page 210.

10

Customizing the Camera

You can customize various camera features to suit your picture-taking preferences with Custom Functions. Custom Functions can be set and used only in Creative Zone modes.



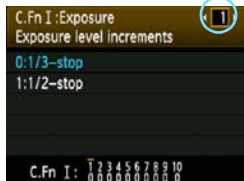
MENU Setting Custom Functions ☆



1 Select [Custom Functions (C.Fn)].

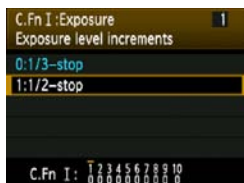
- Under the [Fn] tab, select [Custom Functions (C.Fn)], then press <SET>.

Custom Function No.



2 Select the Custom Function No.

- Press the <◀▶> key to select the Custom Function No., then press <SET>.



3 Change the setting as desired.

- Press the <▲▼> key to select the setting (number), then press <SET>.
- Repeat steps 2 and 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.

4 Exit the setting.

- Press the <MENU> button.
- ▶ The screen for step 1 will reappear.

Clearing All Custom Functions

Under [Fn Clear settings], select [Clear all Custom Func. (C.Fn)] to clear all the Custom Function settings (p.164).

Custom Functions

C.Fn I: Exposure

			 LV shooting
1	Exposure level increments	p.218	☐
2	Flash sync. speed in Av mode		☐

C.Fn II: Image

3	Long exposure noise reduction	p.219	☐
4	High ISO speed noise reduction		☐
5	Highlight tone priority	p.220	☐

C.Fn III: Autofocus/Drive

6	AF-assist beam firing	p.220	☐ (With AFQuick*)
---	-----------------------	-------	---------------------------------------

* If you use an EX-series Speedlite (sold separately) equipped with a LED light, the LED light will turn on for AF-assist even in the AF-Live and AF-ON modes.

C.Fn IV: Operation/Others

7	Shutter/AE lock button	p.221	☐
8	Assign SET button	p.222	☐ (Except 3)
9	Flash button function		☐
10	LCD display when power ON	p.223	



The shaded Custom Functions do not take effect during Live View (LV) shooting. (Settings are disabled.)

MENU Custom Function Settings ☆

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. 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 in the viewfinder and on the LCD monitor as shown below.



C.Fn-2 Flash sync. speed in Av mode

When you use flash in the aperture-priority AE mode (**Av**), you can set the flash sync speed.

0: Auto

The flash sync speed is set automatically within a range of 1/200 sec. to 30 sec. to suit the scene's brightness. With an external Speedlite, high-speed sync will also be possible.

1: 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.

2: 1/200 sec. (fixed)

The flash-sync speed is fixed to 1/200 sec. This more effectively prevents subject blur and camera shake than with setting 1. However, the background may come out darker than with setting 1.

 When 1 or 2 is set, high-speed sync cannot be used with an external Speedlite.

C.Fn II: Image

C.Fn-3 Long exposure noise reduction

0: Off

1: Auto

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

2: On

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



- With settings 1 and 2, the continuous shooting speed will be slower even with shutter speeds faster than 1 sec. (with the image-recording quality set to JPEG). The maximum burst during continuous shooting will also decrease (with the image-recording quality set to JPEG). Settings 1 and 2 are recommended only when shooting long exposures.
- With settings 1 and 2, after the picture is taken, the noise reduction process may take the same amount of time as the exposure. You cannot take another picture until the noise reduction process is completed.
- At ISO 1600 and higher, noise might be more pronounced with setting 2 than with setting 0 or 1.
- With setting 1 or 2, if a long exposure is shot 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 completed. (You cannot take another picture.)

C.Fn-4 High ISO speed noise reduction

Reduces the noise generated in the image. Although noise reduction is applied at all ISO speeds, it is particularly effective at high ISO speeds. At low ISO speeds, the noise in the shadow areas is further reduced. Change the setting to suit the noise level.

0: Standard

2: Strong

1: Low

3: Disable

- ❗ With setting 2, the continuous shooting speed will be slower (with the image-recording quality set to JPEG or **RAW** + **L**). The maximum burst during continuous shooting will also decrease (with the image-recording quality set to JPEG or **RAW**).
- If you playback a **RAW** or **RAW** + **L** image with the camera or print an image directly, the effect of the high ISO speed noise reduction may look minimal. You can check the noise reduction effect or print noise-reduced images with Digital Photo Professional (provided software, p.264).

C.Fn-5 Highlight tone priority

0: Disable

1: Enable

Improves the highlight detail. 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.107) is automatically set to **[Disable]** and the setting cannot be changed.
- With setting 1, noise may become slightly more pronounced than with setting 0.

 With setting 1, the settable range will be ISO 200 - 6400. Also, the **<D+>** icon will be displayed on the LCD monitor and in the viewfinder when highlight tone priority is enabled.

C.Fn III: Autofocus/Drive

C.Fn-6 AF-assist beam firing

The AF-assist beam can be emitted by the camera's built-in flash or by an external, EOS-dedicated Speedlite.

0: Enable

If necessary, the AF-assist beam will be emitted by the built-in flash or external Speedlite.

1: Disable

The AF-assist beam is not emitted.

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

Among external Speedlites, only those which have an infrared AF-assist beam will be able to emit the beam. This prevents any Speedlite which uses a series of small flashes (like the built-in flash) from firing the AF-assist beam.

With an EX-series Speedlite equipped with a LED light, the LED light will not automatically turn on for AF-assist.



If the external Speedlite's **[AF-assist beam firing]** Custom Function is set to **[Disabled]**, the Speedlite will not emit the AF-assist beam even if the camera's C.Fn-6 is set to 0, 2, or 3.

C.Fn IV: Operation/Others**C.Fn-7 Shutter/AE lock button****0: AF/AE lock****1: AE lock/AF**

Convenient when you want to focus and meter separately. Press the <★> button to autofocus, and press the shutter button halfway to apply AE lock.

2: AF/AF lock, no AE lock

In the AI Servo AF mode, you can press the <★> button to stop 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 which keep moving and stopping repeatedly. In the AI Servo AF mode, you can press the <★> button to start or stop the AI Servo AF operation. The exposure is set at the moment the picture is taken. Thus, the optimum focusing and exposure will always be achieved as you wait for the decisive moment.

C.Fn-8 Assign SET button

You can assign a frequently-used function to <SET>. Press <SET> when the camera is ready to shoot.

0: Normal (disabled)

1: Image quality

Press <SET> to display the image-recording quality setting screen on the LCD monitor.

Select the desired image-recording quality, then press <SET>.

2: Flash exposure compensation

When you press <SET>, the flash exposure compensation setting screen will appear. Set the flash exposure compensation, then press <SET>.

3: LCD monitor On/Off

Assigns the same function as the <DISP.> button.

4: Menu display

Press <SET> to display the menu screen.

5: Depth-of-field preview

The lens will stop down to the aperture that was set, and you can see the depth of field (range of acceptable focus) in the viewfinder or in the Live View image.

C.Fn-9 Flash button function

0: Raise built-in flash

1: ISO speed

The ISO speed setting screen will appear. Press the <◀▶> key or turn the <ISO> dial to change the ISO speed. You can also refer to the viewfinder to set the ISO speed.

C.Fn-10 LCD display when power ON**0: Display on**

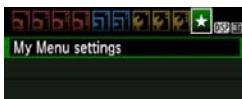
When the power switch is turned on, the shooting settings will be displayed (p.46).

1: Previous display status

If you pressed the <DISP.> button and turned off the camera while the LCD monitor was off, the shooting settings will not be displayed when you turn on the camera again. This helps to save battery power. The menu screens and image playback will still be displayed when used. If you press the <DISP.> button to display the shooting settings and then turn off the camera, the shooting settings will be displayed when you turn on the camera again.

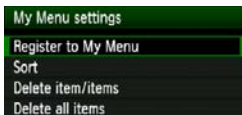
MENU Registering My Menu ☆

Under the My Menu tab, you can register up to six menu options and Custom Functions whose settings you change frequently.



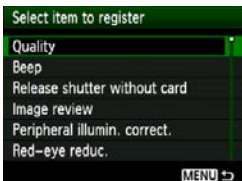
1 Select [My Menu settings].

- Under the [★] tab, select [My Menu settings], then press <SET>.



2 Select [Register to My Menu].

- Select [Register to My Menu], then press <SET>.



3 Register the desired items.

- Select the item to be registered, then press <SET>.
- On the confirmation dialog, select [OK] and press <SET> to register the item.
- You can register up to six items.
- To return to the screen in step 2, press the <MENU> button.

About My Menu settings

● Sort

You can change the order of the registered items in My Menu. Select [Sort] and select the item whose order you want to change. Then press <SET>. With [◆] displayed, press the <▲▼> key to change the order, then press <SET>.

● Delete item/items and Delete all items

You can delete any of the registered items. [Delete item/items] deletes one item at a time, and [Delete all items] deletes all items.

● Display from My Menu

When [Enable] is set, the [★] tab will be displayed first when you display the menu screen.

11

Reference

This chapter provides reference information for camera features, system accessories, etc.

External Speedlites

EOS-dedicated, EX-series Speedlites

Basically operates like a built-in flash for easy operation.

When an EX-series Speedlite (sold separately) is attached to the camera, almost all the autoflash control is done by the camera. In other words, it is like a high-output flash attached externally in place of the built-in flash.

For detailed instructions, see the EX-series Speedlite's instruction manual. This camera is a Type-A camera that can use all the features of EX-series Speedlites.



Shoe-mount Speedlites



Macro Lites

- With an EX-series Speedlite not compatible with flash function settings (p.167), only **[Flash exp. comp]** and **[E-TTL II meter.]** can be set for **[External flash func. setting]**. (Certain EX-series Speedlites also enable **[Shutter sync.]** to be set.)
- If flash exposure compensation is set with the external Speedlite, the flash exposure compensation icon displayed on the camera's LCD monitor will change from  to .
- If the Speedlite's Custom Function has the flash metering mode set to TTL autoflash, the flash will fire at full output only.

Canon Speedlites other than the EX-series

- **With an EZ/E/EG/ML/TL-series Speedlite set in TTL or A-TTL autoflash mode, the flash can be fired at full output only.** Set the camera's shooting mode to <M> (manual exposure) or <Av> (aperture-priority AE) and adjust the aperture setting before shooting.
- If you are using a Speedlite which 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.

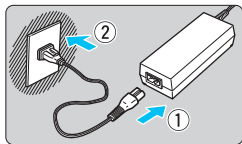
Be sure to test the flash unit beforehand to make sure it synchronizes properly with the camera.



- If the camera is used with a flash unit or flash accessory dedicated to another camera brand, the camera may not operate properly and malfunction may result.
- Do not attach a high-voltage flash unit on the camera's hot shoe. It might not fire.

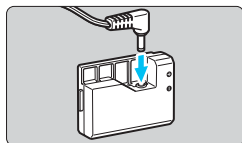
Using a Household Power Outlet

With the AC Adapter Kit ACK-E10 (sold separately), you can connect the camera to a household power outlet and not worry about the remaining battery level.



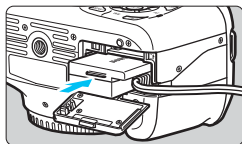
1 Connect the power cord.

- Connect the power cord as shown in the illustration.
- After using the camera, unplug the power plug from the power outlet.



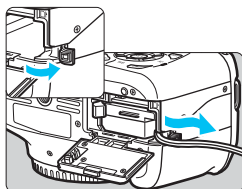
2 Connect the DC Coupler.

- Connect the cord's plug to the DC Coupler.



3 Insert the DC Coupler.

- Open the card/battery compartment cover and insert the DC Coupler until it locks in place.



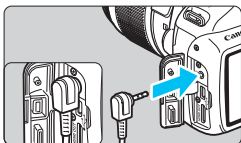
4 Push in the DC cord.

- Open the DC cord hole cover and install the cord as shown.
- Close the card/battery compartment cover.

! Do not connect or disconnect the power cord while the camera's power switch is set to <ON>.

Using the Remote Switch

Remote Switch RS-60E3 (sold separately) comes with an approx. 60cm/2.0ft cord. When connected to the camera's remote control terminal, Remote Switch RS-60E3 can be used to press the shutter button halfway and completely.

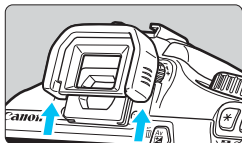


Remote Controller RC-6, RC-1, and RC-5 (all sold separately) cannot be used with the camera.

Using the Eyepiece Cover

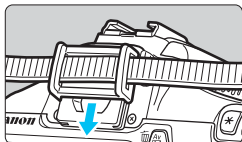
When you use the self-timer, bulb, or Remote Switch and do not look through the viewfinder, stray light entering the viewfinder can cause the image to look dark. To prevent this, use the eyepiece cover (p.25) attached to the camera strap.

During Live View shooting and movie shooting, attaching the eyepiece cover is unnecessary.



1 Remove the eyecup.

- Push the bottom of the eyecup to remove.



2 Attach the eyepiece cover.

- Slide the eyepiece cover down into the eyepiece groove to attach it.
- After taking the picture, detach the eyepiece cover and attach the eyecup by sliding it down 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 personal 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 inquire the card's manufacturer.

! The camera is not guaranteed to support Eye-Fi card functions (including wireless transfer). In case of an issue 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.

1 Insert an Eye-Fi card. (p.28)



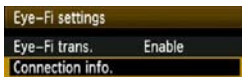
2 Select [Eye-Fi settings].

- Under the [**Y**] tab, select [**Eye-Fi settings**], then press <SET>.
- This menu is displayed only when an Eye-Fi card has been inserted into the camera.



3 Enable the Eye-Fi transmission.

- Press <SET>, set [**Eye-Fi trans.**] to [**Enable**], then press <SET>.
- If you set [**Disable**], automatic transmission will not occur even with the Eye-Fi card inserted (Transmission status icon).



4 Display the connection information.

- Select [**Connection info.**], then press <SET>.



5 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 three times to exit the menu.



Transmission status icon

6 Take the picture.

- ▶ The picture is transferred and the <📶> icon switches from gray (Not connected) to one of the icons below.
- For transferred images, 📷 is displayed in the shooting information display (p.198).

- 📶 (Gray) **Not connected** : No connection with access point.
- 📶 (Blinking) **Connecting** : Connecting with access point.
- 📶 (Displayed) **Connected** : Connection to access point established.
- 📶 (↑) **Transferring** : Image transfer to access point in progress.

⚠ Cautions for Using Eye-Fi Cards

- If "⚠" is displayed, an error occurred while retrieving the card information. Turn the camera off and on again.
- Even if **[Eye-Fi trans.]** is set to **[Disable]**, it may still transmit a signal. In hospitals, airports, and other places where wireless transmissions are prohibited, remove the Eye-Fi card from the camera.
- If the image transfer does not function, check the Eye-Fi card and personal computer settings. For details, see the card's instruction manual.
- Depending on the wireless LAN's connection conditions, the image transfer may take longer or it might be interrupted.
- Because of the transmission function, the Eye-Fi card may become hot.
- The battery power will be consumed faster.
- During the image transfer, auto power off will not take effect.

Function Availability Table According to Shooting Modes

● : Set automatically ○ : User selectable □ : Not selectable

Mode Dial		Basic Zone								Creative Zone					*1
		□	□	CA	□	□	□	□	□	P	Tv	Av	M	A-DEP	
All recording quality settings selectable		○	○	○	○	○	○	○	○	○	○	○	○	○	
ISO speed	Auto / ISO Auto	●	●	●	●	●	●	●	●	○	○	○	○	○	●
	Manual									○	○	○	○	○	
	Settable maximum ISO speed limit									○	○	○	○	○	
Picture Style	Automatic setting	□	□	□	□	□	□	□	□						
	Manual selection									○	○	○	○	○	○
Shoot by ambience selection				○	○	○	○	○	○						
Shoot by lighting or scene type					○	○	○	○	○						
White balance	Auto	●	●	●	●	●	●	●	●	○	○	○	○	○	○
	Preset									○	○	○	○	○	○
	Custom									○	○	○	○	○	○
	Correction / Bracketing									○	○	○	○	○	
Auto Lighting Optimizer		●	●	●	●	●	●	●	●	○	○	○	○	○	○
Lens peripheral illumination correction		○	○	○	○	○	○	○	○	○	○	○	○	○	○
Long exposure noise reduction										○	○	○	○	○	
High ISO speed noise reduction		●	●	●	●	●	●	●	●	○	○	○	○	○	
Highlight tone priority										○	○	○	○	○	○
Color space	sRGB	●	●	●	●	●	●	●	●	○	○	○	○	○	
	Adobe RGB									○	○	○	○	○	
Focusing	One-Shot AF				●	●	●		●	○	○	○	○	○	AF-LIVE AF-ON AF-ON *2
	AI Servo AF							●		○	○	○	○	○	
	AI Focus AF	●	●	●						○	○	○	○	○	
	AF point selection	●	●	●	●	●	●	●	●	○	○	○	○	○	AF-ON
	AF-assist beam	●		●	●		●	*3	●	○	○	○	○	○	
	Manual (MF)	○	○	○	○	○	○	○	○	○	○	○	○	○	○

Mode Dial		Basic Zone								Creative Zone					*1
										P	Tv	Av	M	A-DEP	
Metering mode	Evaluative	●	●	●	●	●	●	●	●	○	○	○	○	○	
	Metering mode selection									○	○	○	○	○	
Exposure	Program shift									○					
	Exposure compensation									○	○	○		○	○
	AEB									○	○	○	○	○	
	AE lock									○	○	○		○	○
	Depth-of-field preview									○ (C.Fn-8-5)					
Drive	Single shooting	○	○	○		○	○		○	○	○	○	○	○	
	Continuous shooting			○	○			○		○	○	○	○	○	
	(10 sec.)	○	○	○	○	○	○	○	○	○	○	○	○	○	
	(2 sec.)									○	○	○	○	○	
	(Continuous)	○	○	○	○	○	○	○	○	○	○	○	○	○	
Built-in flash	Fires automatically	●		○	●		●		●						
	Flash on			○						○	○	○	○	○	
	Flash off		●	○		●		●		○	○	○	○	○	●
	Red-eye reduction	○		○	○		○		○	○	○	○	○	○	
	FE lock									○	○	○	○	○	
	Flash exposure compensation									○	○	○	○	○	
External flash	Function setting									○	○	○	○	○	
	Custom Function setting									○	○	○	○	○	
Live View shooting		○	○	○	○	○	○	○	○	○	○	○	○	○	
Quick Control		○	○	○	○	○	○	○	○	○	○	○	○	○	○
Feature guide		○	○	○	○	○	○	○	○	○	○	○	○	○	○

*1: Still photos cannot be taken in the <[Movie]> movie shooting mode.

*2: If used during movie shooting, it will switch to <AF Live>.

*3: If the AF mode is <AF Quick> during Live View shooting, the external Speedlite will emit the AF-assist beam when necessary.

MENU Menu Settings

For Viewfinder Shooting and Live View Shooting

Shooting 1 (Red)

Page

Quality	L / L / M / M / S1 / S1 / S2 / S3 / RAW + L / RAW	74
Beep	Enable / Disable	154
Release shutter without card	Enable / Disable	154
Image review	Off / 2 sec. / 4 sec. / 8 sec. / Hold	154
Peripheral illumination correction	Enable / Disable	108
Red-eye reduction	Disable / Enable	89
Flash control	Flash firing / Built-in flash function setting / External flash function setting / External flash C.Fn setting / Clear external flash C.Fn setting	167

Shooting 2 (Red)

Exposure compensation/AEB	1/3-stop or 1/2-stop increments, ± 5 stops (AEB: ± 2 stops)	103
Auto Lighting Optimizer	Disable / Low / Standard / Strong	107
Metering mode	Evaluative metering / Partial metering / Center-weighted average metering	100
Custom White Balance	Manual setting of white balance	115
WB Shift/BKT	WB correction: White balance correction BKT setting: White balance bracketing	117 118
Color space	sRGB / Adobe RGB	119
Picture Style	Standard / Portrait / Landscape / Neutral / Faithful / Monochrome / User Def. 1, 2, 3	79 110 113

- The [Shooting 2], [Shooting 3], [Set-up 3], and [My Menu] screens (tabs) are not displayed in Basic Zone modes.
- The [Shooting 4] tab is displayed in Basic Zone modes as the [Shooting 2] tab.
- Shaded menu options are not displayed in Basic Zone modes.

 Shooting 3 (Red)

Page

Dust Delete Data	Obtains data to be used to erase dust spots	171
ISO Auto	Max. 400 / Max. 800 / Max. 1600 / Max. 3200 / Max. 6400	78

 Shooting 4 (Red)

Live View shooting	Enable / Disable	123
AF mode	Live mode /  Live mode / Quick mode	128
Grid display	Off / Grid 1  / Grid 2 	127
Metering timer	4 sec. / 16 sec. / 30 sec. / 1 min. / 10 min. / 30 min.	127

 Playback 1 (Blue)

Protect images	Select images / All images in folder / Unprotect all images in folder / All images on card / Unprotect all images on card	194
Rotate	Rotate vertical images	179
Erase images	Select and erase images / All images in folder / All images on card	196
Print order	Specify images to be printed (DPOF)	211

 Playback 2 (Blue)

Histogram	Brightness / RGB	200
Image jump w/ 	1 image / 10 images / 100 images / Date / Folder / Movies / Stills / Rating	177
Slide show	Playback description / Display time / Repeat / Transition effect	189
Rating	[OFF] /  /  /  /  / 	180
Control over HDMI	Disable / Enable	192

☛ Set-up 1 (Yellow)

Page

Auto power off	30 sec. / 1 min. / 2 min. / 4 min. / 8 min. / 15 min. / Off	155
Auto rotate	On / On / Off	162
Format	Initialize and erase data on the card	44
File numbering	Continuous / Auto reset / Manual reset	158
Select folder	Create and select a folder	156
Screen color	Select the shooting settings screen color	166
Eye-Fi settings*	Eye-Fi transmission: Disable / Enable Connection information	230

* Displayed only when an Eye-Fi card is used.

☛ Set-up 2 (Yellow)

LCD brightness	Seven brightness levels provided	155
LCD off/on button	Shutter btn. / Shutter/DISP / Remains on	166
Date/Time	Set the date (year, month, day) and time (hour, min., sec.)	33
Language	Select the interface language	34
Clean manually	Clean image sensor manually	173
Feature guide	Enable / Disable	47

☛ Set-up 3 (Yellow)

Custom Functions (C.Fn)	Customize camera functions as desired	216
Copyright information	Display copyright information / Enter author's name / Enter copyright details / Delete copyright information	160
Clear settings	Clear all camera settings / Clear all Custom Func. (C.Fn)	164
Firmware Ver.	For updating the firmware	-

★ My Menu (Green)

My Menu settings	Register frequently-used menu items and Custom Functions	224
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For Movie Shooting

Movie 1 (Red)

Page

AF mode	Live mode /  Live mode / Quick mode	145
AF with shutter button during 	Disable / Enable	145
 Shutter/AE lock button	AF/AE lock / AE lock/AF / AF/AF lock, no AE lock / AE/AF, no AE lock	146
 Highlight tone priority	Disable / Enable	146

Movie 2 (Red)

Movie recording size	1280x720  / 1280x720 	147
Sound recording	On / Off	148
Metering timer	4 sec. / 16 sec. / 30 sec. / 1 min. / 10 min. / 30 min.	148
Grid display	Off / Grid 1  / Grid 2 	148

Movie 3 (Red)

Exposure compensation	1/3-stop increments, ± 3 stops	149
Auto Lighting Optimizer	Disable / Low / Standard / Strong	149
Custom White Balance	Manual setting of white balance	149
Picture Style	 Standard /  Portrait /  Landscape /  Neutral /  Faithful /  Monochrome /  User Def. 1, 2, 3	149

Shooting 1 (Red)

Page

Beep	Enable / Disable	154
Peripheral illumination correction	Enable / Disable	108

Playback 1 (Blue)

Protect images	Select images / All images in folder / Unprotect all images in folder / All images on card / Unprotect all images on card	194
Rotate	Rotate vertical images	179
Erase images	Select and erase images / All images in folder / All images on card	196
Print order	Specify images to be printed (DPOF)	211

Playback 2 (Blue)

Histogram	Brightness / RGB	200
Image jump w/ 	1 image / 10 images / 100 images / Date / Folder / Movies / Stills / Rating	177
Slide show	Playback description / Display time / Repeat / Transition effect	189
Rating	[OFF] / [★] / [★★] / [★★★] / [★★★★] / [★★★★★]	180
Control over HDMI	Disable / Enable	192

Set-up 1 (Yellow)

Page

Auto power off	30 sec. / 1 min. / 2 min. / 4 min. / 8 min. / 15 min. / Off	155
Auto rotate	On  / On  / Off	162
Format	Initialize and erase data on the card	44
File numbering	Continuous / Auto reset / Manual reset	158
Select folder	Create and select a folder	156
Eye-Fi settings*	Eye-Fi transmission: Disable / Enable Connection information	230

* Displayed only when an Eye-Fi card is used.

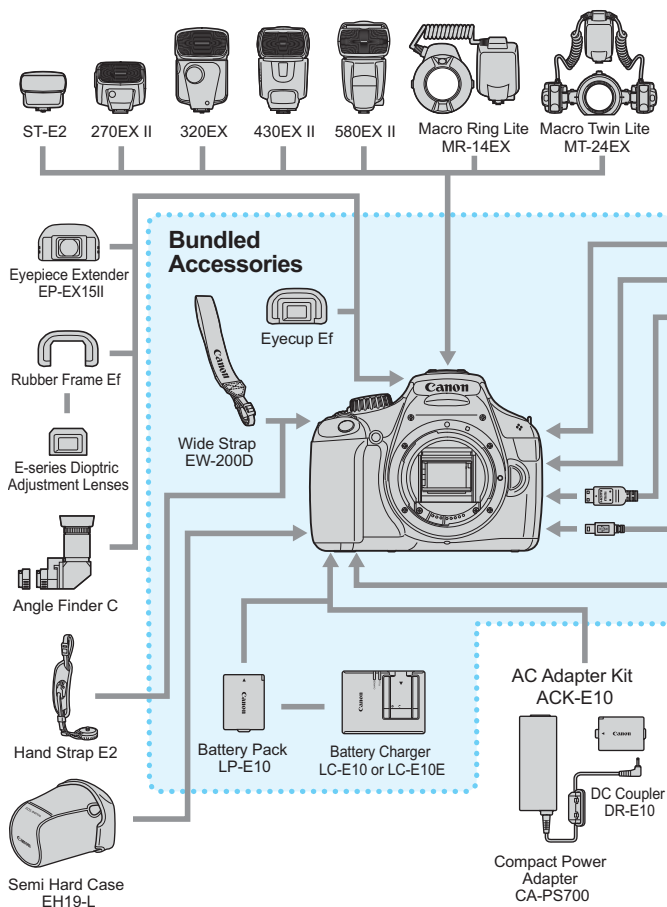
Set-up 2 (Yellow)

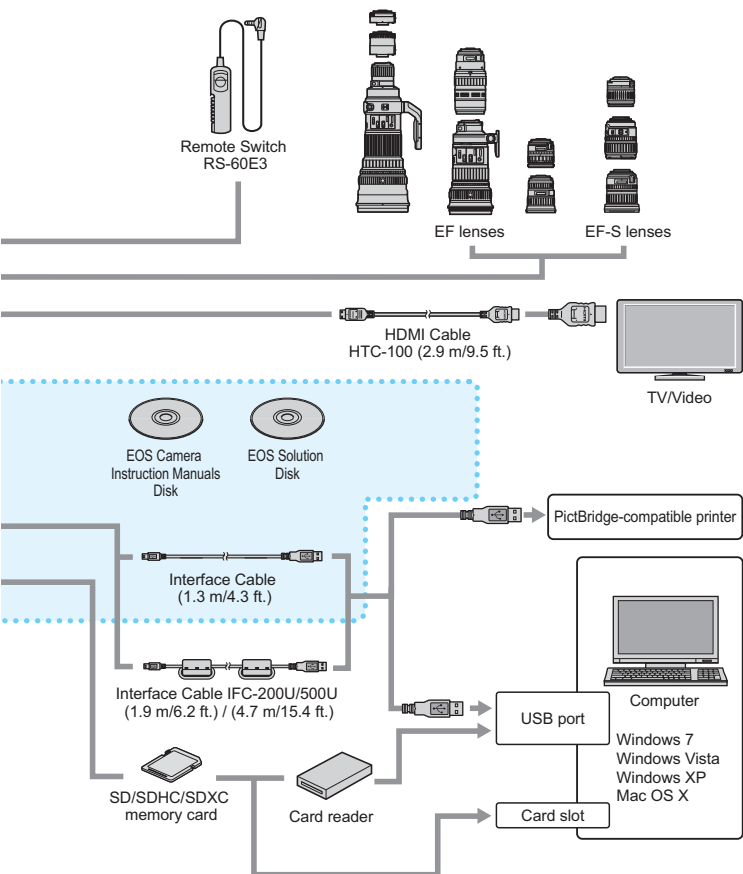
LCD brightness	Seven brightness levels provided	155
Date/Time	Set the date (year, month, day) and time (hour, min., sec.)	33
Language 	Select the interface language	34
Feature guide	Enable / Disable	47



- The menu tabs and options displayed will differ for viewfinder shooting, Live View shooting, and movie shooting.
- The [] Movie 1, [] Movie 2, and [] Movie 3 screens (tabs) are displayed only in the movie shooting mode.

System Map





* The length of all cables is approx. **m/**ft.

Troubleshooting Guide

If a problem occurs with the camera, first refer to 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 pack does not recharge.

- Do not recharge any battery pack other than a genuine Canon Battery Pack LP-E10.

The battery charger's lamp blinks.

- If there is a problem with the battery charger, the protective circuit will stop the charging operation and the charge lamp will blink in orange. If this happens, disconnect the charger's power plug from the power outlet and remove the battery pack. Attach the battery pack to the charger again and wait a while before connecting the charger to a power outlet again.

The camera does not operate even when the power switch is set to <ON>.

- Make sure the card/battery compartment cover is closed (p.28).
- The battery is not properly installed in the camera (p.28).
- Recharge the battery (p.26).
- Press the <DISP.> button (p.46).

The access lamp still blinks even when the power switch is set to <OFF>.

- If the power is turned off while an image is being recorded to the card, the access lamp will still continue to light/blink for a few seconds. When the image recording is completed, the power will turn off automatically.

The battery becomes exhausted quickly.

- Use a fully-charged battery pack (p.26).
- The rechargeable battery pack performance will degrade over repeated use. Purchase a new one.

- If you use Live View shooting or shoot movies for a prolonged period (p.121, 139), the number of possible shots will decrease.
- If you hold down the shutter button for a long time or often use only the AF without taking pictures, the number of possible shots will decrease.
- If you often use the LCD monitor, the number of possible shots will decrease.
- If you use the lens Image Stabilizer, the number of possible shots will decrease.

The camera turns off by itself.

- Auto power off is in effect. If you do not want auto power off to take effect, set [**Auto power off**] to [**Off**] (p.155).
- Even if [**Auto power off**] has been set to [**Off**], the LCD monitor will still turn off after the camera is idle for 30 min. Press the <DISP.> button to turn on the LCD monitor.

Shooting-Related Problems

No images can be shot nor recorded.

- The card is not properly inserted (p.28).
- If the card is full, replace the card or delete unnecessary images to make room (p.28, 196).
- If you try to focus in the One-Shot AF mode while the focus confirmation light <●> in the viewfinder blinks, a picture cannot be taken. Press the shutter button halfway again to focus, or focus manually (p.39, 85).
- Slide the card's write-protect switch to the Write/Erase setting (p.28).

The card cannot be used.

- If a card error message is displayed, see page 30 or 250.

The file numbering does not start from 0001.

- If the card already contains recorded images, the image number might not start from 0001 (p.158).

The image is out of focus.

- Set the lens focus mode switch to **<AF>** (p.35).
- To prevent camera shake, press the shutter button gently (p.38, 39).
- If the lens has an Image Stabilizer, set the IS switch to **<ON>**.
- In low light, the shutter speed may become slow. Use a faster shutter speed (p.92), set a higher ISO speed (p.77), use flash (p.88), or use a tripod.

Horizontal stripes appear, or the exposure or color tone look strange.

- Horizontal stripes or irregular exposures can be caused by fluorescent light, LED bulbs, or other artificial lighting during viewfinder or Live View shooting. Also, the exposure or color tone might not come out right. A slow shutter speed may solve the problem.

The continuous shooting speed is slower./

The maximum burst during continuous shooting is lower.

- Under [**⚙**: **Custom Functions (C.Fn)**], if [**3: Long exposure noise reduction**] is set to [**0: Off**] and [**4: High ISO speed noise reduction**] to any setting other than [**2: Strong**], the continuous shooting speed will return to normal. The maximum burst during continuous shooting will also return to normal.
- If you shoot something that has fine detail (field of grass, etc.), the file size will be larger and the actual maximum burst might be lower than the number mentioned on page 74.

ISO 100 cannot be set.

- Under [**⚙**: **Custom Functions (C.Fn)**], if [**5: Highlight tone priority**] is set to [**1: Enable**], ISO 100 cannot be set. If [**0: Disable**] is set, ISO 100 can be set (p.220).

The Auto Lighting Optimizer cannot be set.

- Under the [**F**: Custom Functions (C.Fn)] menu, if [**5: 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.107).

When I use the <AV> mode with flash, the shutter speed becomes slow.

- If you shoot at night when the background is dark, the shutter speed becomes slow automatically (slow-sync shooting) so that both the subject and background are properly exposed. If you do not want a slow shutter speed to be set, set [**2: Flash sync. speed in Av mode**] in [**F**: Custom Functions (C.Fn)] to 1 or 2 (p.218).

The built-in flash pops up by itself.

- In the , , , and  modes, the built-in flash will pop-up automatically when flash is necessary.

The built-in flash does not fire.

- If you shoot continuously with the built-in flash at short intervals, the flash might stop operating to protect the flash unit.

I cannot set flash exposure compensation with [External flash func. setting].

- If flash exposure compensation has been set on an external Speedlite, [**Flash exp. comp**] (p.169) cannot be set in the [**External flash func. setting**] screen. Also, if you set flash exposure compensation with the camera and then set flash exposure compensation with the external Speedlite, the Speedlite's flash exposure compensation setting will override the camera's. When the Speedlite's flash exposure compensation is canceled, flash exposure compensation can be set with the camera.

High-speed sync cannot be set in the <Av> mode.

- Under [Custom Functions (C.Fn)], set [2: Flash sync. speed in Av mode] to [0: Auto] (p.218).

The camera makes a noise when it is shaken.

- The built-in flash's pop-up mechanism moves slightly. This is normal.

The shutter makes two shooting sounds during Live View shooting.

- If you use flash, the shutter will make two sounds each time you shoot (p.123).

During Live View shooting and movie shooting, the icon appears.

- It indicates that the camera's internal temperature is high. If the < > icon is white, the still photo's image quality might deteriorate. If the < > icon is red, it indicates that the Live View or movie shooting will soon be terminated automatically (p.136, 150).

Movie shooting terminates by itself.

- If the card's writing speed is slow, movie shooting may stop automatically. Use an SD Speed Class 6 "CLASS 6" or faster card. To find out the card's read/write speed, see the card manufacturer's Web site, etc.
- If a movie clip's file size reaches 4 GB or the shooting length reaches 29 min. 59 sec., the movie shooting will stop automatically.

The image flickers or horizontal stripes appear during movie shooting.

- Flickering, horizontal stripes (noise), or irregular exposures can be caused by fluorescent light, LED bulbs, or other artificial lighting during movie shooting. Also, changes in the exposure (brightness) or color tone might also be recorded.

Playback Problems

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 might look black. It will return to normal at room temperature.

Part of the image blinks in black.

- It is the highlight alert (p.200). Overexposed highlight areas with a loss of highlight detail will blink.

The image cannot be erased.

- If the image has been protected, it cannot be erased (p.194).

The movie cannot play.

- Movies edited with a personal computer using the provided ZoomBrowser EX/ImageBrowser (p.264) or other software cannot be played with the camera.

When the movie is played, camera operation noise can be heard.

- If you operate the camera's dials or lens during movie shooting, the operation noise will also be recorded.

The movie has still moments.

- If there is a drastic change in the exposure during movie shooting, the autoexposure stops the recording momentarily until the exposure stabilizes.

The subject looks distorted during movie shooting.

- If you move the camera to the left or right quickly (high-speed panning) or shoot a moving subject, the image may look distorted.

I cannot connect the camera to my TV set.

- An HDMI cable (sold separately) is necessary to connect the camera to a TV set. Using the HDMI Cable HTC-100 (sold separately) is recommended (p.191).
- Also check that your TV set has an HDMI IN terminal. If the TV set does not have an HDMI IN terminal and has only an A/V IN jack, the camera cannot be connected.

No image appears on the TV screen.

- Make sure the HDMI cable's plug is inserted all the way in (p.191).
- Using HDMI Cable HTC-100 (sold separately) is recommended (p.191).

My card reader does not recognize the card.

- Depending on the card reader and computer OS used, SDXC cards might not be correctly recognized. In such a case, connect your camera to the computer with the provided interface cable, then transfer the images to your computer using EOS Utility (provided software, p.264).

Display Problems

The menu screen shows few tabs and options.

- In Basic Zone modes and in movie shooting mode, certain tabs and menu options are not displayed. Set the shooting mode to a Creative Zone mode (p.42).

The file name's first character is an underscore (“_MG_”).

- Set the color space to sRGB. If Adobe RGB is set, the first character will be an underscore (p.119).

The file name starts with “MVI_”.

- It is a movie file (p.159).

The shooting date and time displayed is incorrect.

- The correct date and time has not been set (p.33).

The date and time is not in the picture.

- The shooting date and time does not appear in the picture. The date and time is instead recorded in the image data as shooting information. When printing, you can imprint the date and time in the picture by using the date and time recorded in the shooting information (p.207).

[###] is displayed.

- If the card has recorded a number of images greater than the camera can display, [###] will be displayed (p.181).

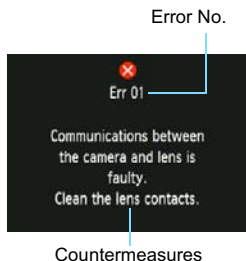
[Eye-Fi settings] does not appear.

- [Eye-Fi settings] will appear only when an Eye-Fi card is inserted into the camera. If the Eye-Fi card has a write-protect tab set to the LOCK position, you will not be able to check the card's connection status or disable Eye-Fi card transmission (p.230).

Printing-Related Problems**There are fewer printing effects than listed in the instruction manual.**

- What is displayed on the screen differs depending on the printer. This instruction manual lists all the printing effects available (p.206).

Error Codes



If there is a problem with the camera, an error message will appear. Follow the on-screen instructions.

No.	Error Message & Solution
01	Communications between the camera and lens is faulty. Clean the lens contacts. → Clean the electrical contacts on the camera and lens and use a Canon lens (p.15, 18).
02	Card cannot be accessed. Reinsert/change card or format card with camera. → Remove and insert the card again, replace the card, or format the card (p.28, 44).
04	Cannot save images because card is full. Replace card. → Replace the card, erase unnecessary images, or format the card (p.28, 196, 44).
05	The built-in flash could not be raised. Turn the camera off and on again. → Operate the power switch (p.31).
10, 20, 30, 40, 50, 60, 70, 80	Shooting is not possible due to an error. Turn the camera off and on again or re-install the battery. → Operate the power switch, remove and install the battery pack again, or use a Canon lens (p.31, 28).

* If the error still persists, write down the error No. and contact your nearest Canon Service Center.

Specifications

• Type

Type:	Digital, single-lens reflex, AF/AE camera with built-in flash
Recording media:	SD memory card, SDHC memory card, SDXC memory card
Image sensor size:	Approx. 22.0 x 14.7mm
Compatible lenses:	Canon EF lenses (including EF-S lenses) (35mm-equivalent focal length is approx. 1.6 times the lens focal length)
Lens mount:	Canon EF mount

• Image Sensor

Type:	CMOS sensor
Effective pixels:	Approx. 12.20 megapixels
Aspect ratio:	3:2
Dust delete function:	Manual, Dust Delete Data appended

• Recording system

Recording format:	Design rule for Camera File System 2.0
Image type:	JPEG, RAW (14-bit Canon original) RAW+JPEG Large simultaneous recording possible
Recorded pixels:	L (Large) : Approx. 12.20 megapixels (4272 x 2848) M (Medium) : Approx. 6.30 megapixels (3088 x 2056) S1 (Small 1) : Approx. 3.40 megapixels (2256 x 1504) S2 (Small 2) : Approx. 2.50 megapixels (1920 x 1280) S3 (Small 3) : Approx. 350,000 pixels (720 x 480) RAW : Approx. 12.20 megapixels (4272 x 2848)
Create/select a folder:	Possible

• Image Processing

Picture Style:	Standard, Portrait, Landscape, Neutral, Faithful, Monochrome, User Def. 1 - 3
Basic+:	Shoot by ambience selection, Shoot by lighting or scene type
White balance:	Auto, Preset (Daylight, Shade, Cloudy, Tungsten light, White fluorescent light, Flash), Custom White balance correction and white balance bracketing features provided * Flash color temperature information communication provided
Noise reduction:	Applicable to long exposures and high ISO speed shots

Automatic image

brightness correction: Auto Lighting Optimizer

Highlight tone priority: Provided

Lens peripheral

illumination correction: Provided

• Viewfinder

Type: Eye-level pentamirror

Coverage: Vertical/Horizontal approx. 95% (with Eye point approx. 21 mm)

Magnification: Approx. 0.8x (-1 m⁻¹ with 50mm lens at infinity)

Eye point: Approx. 21 mm (From eyepiece lens center at -1 m⁻¹)

Built-in dioptic adjustment: Approx. -2.5 - +0.5 m⁻¹ (dpt)

Focusing screen: Fixed, Precision Matte

Mirror: Quick-return type

Depth-of-field preview: Enabled with Custom Function setting

• Autofocus

Type: TTL secondary image-registration, phase detection

AF points: 9 AF points

Metering range: EV 0 - 18 (at 23°C/73°F, ISO 100)

Focus modes: 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

Metering modes: 63-zone TTL full-aperture metering

- Evaluative metering (linked to all AF points)
- Partial metering (approx. 10% of viewfinder at center)
- Center-weighted average metering

Metering range: EV 1 - 20 (at 23°C/73°F with EF 50mm f/1.4 USM lens, ISO 100)

Exposure control: Program AE (Full Auto, Flash Off, Creative Auto, Portrait, Landscape, Close-up, Sports, Night Portrait, Program), shutter-priority AE, aperture-priority AE, manual exposure, automatic depth-of-field AE

ISO speed:
(Recommended
exposure index)

Basic Zone modes: ISO 100 - 3200 set automatically
Creative Zone modes: Set manually within ISO 100 - 6400
(whole-stop increments), set automatically within ISO
100 - 6400, maximum ISO speed settable with ISO Auto

Exposure compensation: Manual: ±5 stops in 1/3- or 1/2-stop increments

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 mode with evaluative metering when focus is achieved
Manual: By AE lock button

• Shutter

Type: Electronically-controlled, focal-plane shutter
Shutter speeds: 1/4000 sec. to 1/60 sec. (Full Auto mode),
X-sync at 1/200 sec.
1/4000 sec. to 30 sec., bulb (Total shutter speed range.
Available range varies by shooting mode.)

• Flash

Built-in flash: Retractable, auto pop-up flash
Guide No. approx. 9.2/30 (at ISO 100 in meters/feet) or
approx. 13/43 (at ISO 200 in meters/feet)
Flash coverage: Approx. 17mm lens angle of view
Recycling time approx. 2 sec.
External flash: EX-series Speedlite (Flash functions settable with the camera)
Flash metering: E-TTL II autoflash
Flash exposure compensation: ± 2 stops in 1/3- or 1/2-stop increments
FE lock: Provided
PC terminal: None

• Drive System

Drive mode: Single shooting, continuous shooting, self-timer with 10-sec. or
2-sec. delay and 10-sec. delay with continuous shooting
Continuous shooting speed: JPEG: Max. approx. 3.0 fps
RAW: Max. approx. 2.0 fps
RAW+JPEG Large/Fine: Approx. 0.8 fps (averaged value)
* With RAW+JPEG Large/Fine, the continuous shooting
speed will be slower after the third shot.
* Based on Canon's standard 4GB card
Max. burst: JPEG Large/Fine: Approx. 830 shots
RAW: Approx. 5 shots
RAW+JPEG Large/Fine: Approx. 1 shot
* With RAW+JPEG Large/Fine, "busy" will be displayed.
Continuous shooting at approx. 0.8 fps (averaged
value) is possible.
* Based on Canon's standard 4GB card and Canon's testing
conditions (with ISO 100 and Standard Picture Style).

• Live View Shooting

Focusing:	Live mode, Face detection Live mode (Contrast detection) Quick mode (Phase-difference detection), Manual focusing (Approx. 5x / 10x magnification possible)
Metering modes:	Evaluative metering with the image sensor
Metering range:	EV 0 - 20 (at 23°C/73°F with EF 50mm f/1.4 USM lens, ISO 100)
Grid display:	Two types

• Movie Shooting

Movie compression:	MPEG-4 AVC/H.264 Variable (average) bit rate
Audio recording format:	Linear PCM
Recording format:	MOV
Recording size:	1280x720 (HD)
Frame rate:	30p (29.97 fps), 25p (25.00 fps)
File size:	Approx. 222.6 MB/min.
Focusing:	Same as focusing with Live View shooting
Metering modes:	Center-weighted average and evaluative metering with the image sensor * Automatically set by the focusing mode
Metering range:	EV 0 - 20 (at 23°C/73°F with EF 50mm f/1.4 USM lens, ISO 100)
Exposure control:	Program AE for movie shooting
ISO speed:	Automatically set within ISO 100 - 6400
Exposure compensation:	±3 stops in 1/3-stop increments
AE lock:	Provided
Sound recording:	Built-in monaural microphone
Grid display:	Two types
Movie editing:	Editing out first and last scenes possible (1-sec. increments)

• LCD Monitor

Type:	TFT color, liquid-crystal monitor
Monitor size and dots:	6.75 cm (2.7 inches) with approx. 230,000 dots
Brightness adjustment:	Manual (7 levels)
Interface languages:	25
Feature guide:	Displayable

• Playback

Image display formats:	Basic info, basic info + image quality/playback number, shooting info. display, histogram, 4-image index, 9-image index, image rotate possible
Zoom magnification:	Approx. 1.5x - 10x
Image browsing methods:	Single image, jump by 10 or 100 images, by shooting date, by folder, by movies, by stills, by rating
Highlight alert:	Overexposed highlights blink
Movie playback:	Enabled (LCD monitor, HDMI OUT) Built-in speaker

• Direct Printing

Compatible printers:	PictBridge-compatible printers
Printable images:	JPEG and RAW images
Print ordering:	DPOF Version 1.1 compatible

• Custom Functions

Custom Functions:	10
My Menu registration:	Possible
Copyright information:	Entry and inclusion possible

• Interface

Digital terminal:	For personal computer communication and direct printing (Hi-Speed USB equivalent)
HDMI mini OUT terminal:	Type C (Auto switching of resolution), CEC-compatible
Remote control terminal:	For Remote Switch RS-60E3
Eye-Fi card:	Compatible

• Power

Battery:	Battery Pack LP-E10 (Quantity 1) * AC power can be supplied via AC Adapter Kit ACK-E10
Battery life:	With viewfinder shooting: (Based on CIPA testing standards) Approx. 700 shots at 23°C/73°F, approx. 650 shots at 0°C/32°F With Live View shooting: Approx. 220 shots at 23°C/73°F, approx. 210 shots at 0°C/32°F
Movie shooting time:	Total approx. 1 hr. 50 min. at 23°C/73°F Total approx. 1 hr. 30 min. at 0°C/32°F (With a fully-charged Battery Pack LP-E10)

• Dimensions and Weight

Dimensions (W x H x D):	Approx. 129.9 x 99.7 x 77.9 mm / 5.1 x 3.9 x 3.1 in.
Weight:	Approx. 495 g / 17.5 oz. (CIPA Guidelines), Approx. 450 g / 15.9 oz. (Body only)

• Operation Environment

Working temperature range: 0°C - 40°C / 32°F - 104°F

Working humidity: 85% or less

• Battery Pack LP-E10

Type: Rechargeable lithium-ion battery

Rated voltage: 7.4 V DC

Battery capacity: 860 mAh

Working temperature range: During charging: 6°C - 40°C / 43°F - 104°F

During shooting: 0°C - 40°C / 32°F - 104°F

Working humidity: 85% or less

Dimensions (W x H x D): Approx. 36.2 x 14.7 x 49.0 mm / 1.4 x 0.6 x 1.9 in.

Weight: Approx. 45 g / 1.6 oz.

• Battery Charger LC-E10

Compatible battery: Battery Pack LP-E10

Recharging time: Approx. 2 hours (at 23°C / 73°F)

Rated input: 100 - 240 V AC (50/60 Hz)

Rated output: 8.3 V DC / 580 mA

Working temperature range: 6°C - 40°C / 43°F - 104°F

Working humidity: 85% or less

Dimensions (W x H x D): Approx. 67.0 x 30.5 x 87.5 mm / 2.6 x 1.2 x 3.4 in.

Weight: Approx. 85 g / 3.0 oz.

• Battery Charger LC-E10E

Compatible battery: Battery Pack LP-E10

Power cord length: Approx. 1 m / 3.3 ft.

Recharging time: Approx. 2 hours (at 23°C / 73°F)

Rated input: 100 - 240 V AC (50/60 Hz)

Rated output: 8.3 V DC / 580 mA

Working temperature range: 6°C - 40°C / 43°F - 104°F

Working humidity: 85% or less

Dimensions (W x H x D): Approx. 67.0 x 30.5 x 87.5 mm / 2.6 x 1.2 x 3.4 in.

Weight: Approx. 82 g / 2.9 oz. (excluding power cord)

• EF-S 18-55mm f/3.5-5.6 IS II

Angle of view: Diagonal extent: 74°20' - 27°50'

Horizontal extent: 64°30' - 23°20'

Vertical extent: 45°30' - 15°40'

Lens construction: 11 elements in 9 groups

Minimum aperture: f/22 - 36

Closest focusing distance: 0.25 m / 0.82 ft. (From image sensor plane)

Max. magnification:	0.34x (at 55 mm)
Field of view:	207 x 134 - 67 x 45 mm / 8.1 x 5.3 - 2.6 x 1.8 in. (at 0.25 m / 0.82 ft.)
Image Stabilizer:	Lens shift type
Filter size:	58 mm
Lens cap:	E-58
Max. diameter x length:	Approx. 68.5 x 70.0 mm / 2.7 x 2.8 in.
Weight:	Approx. 200 g / 7.1 oz.
Hood:	EW-60C (sold separately)
Case:	LP814 (sold separately)

• EF-S18-55mm f/3.5-5.6 III

Angle of view:	Diagonal extent: 74°20' - 27°50' Horizontal extent: 64°30' - 23°20' Vertical extent: 45°30' - 15°40'
Lens construction:	11 elements in 9 groups
Minimum aperture:	f/22 - 36
Closest focusing distance:	0.25 m / 0.82 ft. (From image sensor plane)
Max. magnification:	0.34x (at 55mm)
Field of view:	207 x 134 - 67 x 45 mm / 8.1 x 5.3 - 2.6 x 1.8 in. (at 0.25 m / 0.82 ft.)
Filter size:	58 mm
Lens cap:	E-58
Max. diameter x length:	Approx. 68.5 x 70.0 mm / 2.7 x 2.8 in.
Weight:	Approx. 195 g / 6.9 oz.
Hood:	EW-60C (sold separately)
Case:	LP814 (sold separately)

- All the data above is based on Canon's testing standards and CIPA (Camera & Imaging Products Association) testing standards and guidelines.
- Dimensions, maximum diameter, length 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 maker.

Trademarks

- Adobe is a trademark of Adobe Systems Incorporated.
- Windows is a trademark or registered trademark of Microsoft Corporation in the United States and other countries.
- Macintosh and Mac OS are trademarks or registered trademarks of Apple Inc. in the United States and other countries.
- SDXC logo is a trademark of SD-3C, LLC.
- HDMI, HDMI logo, and High-Definition Multimedia Interface are a trademark or registered trademark of HDMI Licensing LLC.
- All other corporate and product names and trademarks mentioned in this manual are the property of their respective owners.

About MPEG-4 Licensing

"This product is licensed under AT&T patents for the MPEG-4 standard and may be used for encoding MPEG-4 compliant video and/or decoding MPEG-4 compliant video that was encoded only (1) for a personal and non-commercial purpose or (2) by a video provider licensed under the AT&T patents to provide MPEG-4 compliant video. No license is granted or implied for any other use for MPEG-4 standard."

* Notice displayed in English as required.

Use of genuine Canon accessories is recommended

This product is designed to achieve excellent performance when used with genuine Canon accessories. Canon shall not be liable for any damage to this product and/or accidents such as fire, etc., caused by the malfunction of non-genuine Canon accessories (e.g., a leakage and/or explosion of a battery pack). Please note that this warranty does not apply to repairs arising out of the malfunction of non-genuine Canon accessories, although you may request such repairs on a chargeable basis.

Safety Warnings

Follow these safeguards and use the equipment properly to prevent injury, death, and material damage.

Preventing Serious Injury or Death

- To prevent fire, excessive heat, chemical leakage, and explosions, follow the safeguards below:
 - Do not use any batteries, power sources, and accessories not specified in this booklet. Do not use any home-made or modified batteries.
 - Do not short-circuit, disassemble, or modify the battery pack or back-up battery. Do not apply heat or apply solder to the battery pack or back-up battery. Do not expose the battery pack or back-up battery to fire or water. And do not subject the battery pack or back-up battery to strong physical shock.
 - Do not install the battery pack or back-up battery in reversed polarity (+ -). Do not mix new and old or different types of batteries.
 - Do not recharge the battery pack outside the allowable ambient temperature range of 0°C - 40°C (32°F - 104°F). Also, do not exceed the recharging time.
 - Do not insert any foreign metallic objects into the electrical contacts of the camera, accessories, connecting cables, etc.
- Keep the back-up battery away from children. If a child swallows the battery, consult a physician immediately. (Battery chemicals may harm the stomach and intestines.)
- When disposing of a battery pack or back-up battery, insulate the electrical contacts with tape to prevent contact with other metallic objects or batteries. This is to prevent fire or an explosion.
- If excessive heat, smoke, or fumes are emitted during battery pack recharging, immediately unplug the battery charger from the power outlet to stop the recharging and prevent a fire.
- If the battery pack or back-up battery leaks, changes color, deforms, or emits smoke or fumes, remove it immediately. Be careful not to get burned in the process.
- Prevent any battery leakage from contacting your eyes, skin, and clothing. It can cause blindness or skin problems. If the battery leakage contacts your eyes, skin, or clothing, flush the affected area with lots of clean water without rubbing it. See a physician immediately.
- During the recharging, keep the equipment away from the reach of children. The cord can accidentally choke the child or give an electrical shock.
- 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 fire the flash at someone driving a car. It may cause an accident.
- Do not fire the flash near a person's eyes. It may impair the person's vision. When using flash to photograph an infant, keep at least 1 meter away.
- Before storing the camera or accessory when not in use, remove the battery pack and disconnect the power plug. This is to prevent electrical shock, heat generation, and fire.
- Do not use the equipment where there is flammable gas. This is to prevent an explosion or fire.

-
- If you drop the equipment and the casing breaks open to expose the internal parts, do not touch the internal parts due to the possibility of 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 the camera from the reach of small children. The neck strap can accidentally choke the child.
 - Do not store the equipment in dusty or humid places. This is to prevent fire and electrical shock.
 - 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 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 insulation has been damaged.
 - Occasionally unplug the power plug and use a dry cloth to clean off the dust around the power outlet. If the surrounding is dusty, humid, or oily, the dust on the power outlet may become moist and short-circuit the outlet to cause a fire.
-

Preventing Injury or Equipment Damage

-
- Do not leave equipment inside a car under the hot sun or near a heat source. The equipment may become hot and cause skin burns.
 - Do not carry the camera around while it is attached to a tripod. Doing so may cause injury. Also make sure the tripod is sturdy enough to support the camera and lens.
 - Do not leave a lens or lens-attached camera under 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 battery-recharging apparatus with a cloth. Doing so may trap heat within and cause the casing to deform or catch fire.
 - If you drop the camera in water or if water or metal fragments enter inside the camera, promptly remove the battery pack and back-up battery. This is to prevent fire and electrical shock.
 - Do not use or leave the battery pack or back-up battery in a hot environment. Doing so may cause battery leakage or a shorter battery life. The battery pack or back-up battery can also become hot and cause skin burns.
 - Do not use paint thinner, benzene, or other organic solvents to clean the equipment. Doing so may cause fire or a health hazard.
-

If the product does not work properly or requires repair, contact your dealer or your nearest Canon Service Center.



European Union (and EEA) only.

These symbols indicate that this product is not to be disposed of with your household waste, according to the WEEE Directive (2002/96/EC), the Battery Directive (2006/66/EC) and/or your national laws implementing those Directives.

 If a chemical symbol is printed beneath the symbol shown above, in accordance with the Battery Directive, this indicates that a heavy metal (Hg = Mercury, Cd = Cadmium, Pb = Lead) is present in this battery or accumulator at a concentration above an applicable threshold specified in the Battery Directive.

This product should be handed over to a designated collection point, e.g., on an authorized one-for-one basis when you buy a new similar product or to an authorized collection site for recycling waste electrical and electronic equipment (EEE) and batteries and accumulators. Improper handling of this type of waste could have a possible impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. Your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources.

For more information about the recycling of this product, please contact your local city office, waste authority, approved scheme or your household waste disposal service or visit

www.canon-europe.com/environment.

(EEA: Norway, Iceland and Liechtenstein)

IMPORTANT SAFETY INSTRUCTIONS

1. **SAVE THESE INSTRUCTIONS** — This manual contains important safety and operating instructions for Battery Charger LC-E10 & LC-E10E.
2. Before using the charger, read all instructions and cautionary remarks on (1) the charger, (2) the battery pack, and (3) the product using the battery pack.
3. **CAUTION** — To reduce risk of injury, charge only the Battery Pack LP-E10. Other types of batteries may burst, causing personal injury and other damage.
4. Do not expose the charger to rain or snow.
5. Use of an attachment not recommended or sold by Canon may result in fire, electric shock, or personal injury.
6. To reduce risk of damage to electric plug and cord, pull by plug rather than by cord when disconnecting charger.
7. Make sure cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
8. Do not operate the charger with damaged cord or plug - replace them immediately.
9. Do not operate the charger if it has received a sharp blow, been dropped, or otherwise damaged in any way; take it to a qualified serviceman.
10. Do not disassemble the charger; take it to a qualified serviceman when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.
11. To reduce risk of electric shock, unplug charger from outlet before attempting any maintenance or cleaning.

MAINTENANCE INSTRUCTION

Unless otherwise stated in this manual, there are no user serviceable parts inside. Refer servicing to qualified serviceman.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.

DISPOSE OF USED BATTERIES ACCORDING TO LOCAL REGULATION.

12

Software Start Guide

This chapter gives an overview of the software in the EOS Solution Disk (CD-ROM) provided with the camera and explains how to install the software in a personal computer. It also explains how to view the pdf files in the EOS Camera Instruction Manuals Disk (DVD-ROM).



EOS Solution Disk
(Software)



**EOS Camera Instruction
Manuals Disk**



EOS Solution Disk

This disk contains various software for EOS cameras.

Communication Software for the Camera and Computer

1 EOS Utility

- You can download images (still images/movies) you have shot with the camera to your computer.
- You can set the various settings of the camera from your computer.
- You can shoot photos remotely by connecting the camera with your computer.

Image Viewing and Editing Software

2 Digital Photo Professional

- You can view, edit and print shot images on your computer at high-speed.
- You can edit images with originals remaining unchanged.
- Can be used by a wide range of users from amateurs to professionals.
It is especially recommended for users who mainly shoot RAW images.

Image Viewing and Editing Software

3 ZoomBrowser EX (Windows) / ImageBrowser (Macintosh)

- You can view, edit and print JPEG images on your computer.
- You can organize and sort images by shooting date or theme.
- You can play and edit movies (MOV files) and extract still images from movies.
- Recommended for novices who are using a digital camera for the first time and amateur users.

Picture Style File Creating Software

4 Picture Style Editor

- This software is aimed at advanced users who are experienced in editing images.
- You can edit Picture Style to your unique image characteristics and create/save an original Picture Style file.

Installing the Software

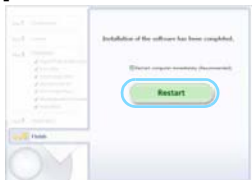
Compatible OS **Windows 7** **Windows Vista** **Windows XP**

- 1 Check that the camera is not connected to your computer.
 - Never connect the camera to your computer before you install the software. The software will not be installed correctly.
- 2 Insert the EOS Solution Disk (CD).
- 3 Click **[Easy Installation]** to start installation.



- Follow the windows displayed for the rest of the installation procedure.
- ➔ When installation ends, the window for Step 4 appears.

- 4 Click **[Restart]**.



- 5 Once your computer has restarted, remove the CD.
 - To download images from the cameras, refer to the EOS Utility Instruction Manual (PDF electronic manual).
 - “WFT Utility” and “Original Data Security Tools” software for the accessories (sold separately) will also be installed. If not necessary, uninstall the software.

Installing the Software

Compatible OS **MAC OS X 10.4 - 10.6**

1 Check that the camera is not connected to your computer.

2 Insert the EOS Solution Disk (CD).

- On your computer's desktop, double-click and open the CD-ROM icon, and then double-click [Canon EOS Digital Installer].

3 Click **[Install]** to start installation.



- Follow the windows displayed for the rest of the installation procedure.
- When installation ends, the window for Step **4** appears.

4 Click **[Finish]**.



5 Remove the CD.

- To download images from the cameras, refer to the EOS Utility Instruction Manual (PDF electronic manual).
- “WFT Utility” software for the accessories (sold separately) will also be installed. If not necessary, uninstall the software.

[WINDOWS]**EOS Camera Instruction Manuals Disk**

Copy the PDF Instruction Manuals contained on the disk to your computer.

- 1 Insert the EOS Camera Instruction Manuals Disk (DVD) into the DVD-ROM drive of your computer.
- 2 Open the disk.
 - Double-click **[My Computer]** on the desktop and then double-click the DVD-ROM drive into which you have inserted the disk. Select your language and operating system. The index of the Instruction Manuals is displayed.



Acrobat Reader (version 6.0 or later) must be installed to view the Instruction Manual files (PDF format). Install Adobe Reader if it is not already installed on your computer. To save the PDF manual to your computer, use the 'Save' function of your Adobe Reader.

[MACINTOSH]**EOS Camera Instruction Manuals Disk**

Copy the PDF Instruction Manuals contained on the disk to your Macintosh.

- 1 Insert the EOS Camera Instruction Manuals Disk (DVD) into the DVD-ROM drive of your Macintosh.
- 2 Open the disk.
 - Double-click on the disk icon.
- 3 Double-click the START.html file. Select your language and operating system. The index of the Instruction Manuals is displayed.



Acrobat Reader (version 6.0 or later) must be installed to view the Instruction Manual files (PDF format). Install Adobe Reader if it is not already installed on your Macintosh. To save the PDF manual to your computer, use the 'Save' function of your Adobe Reader.



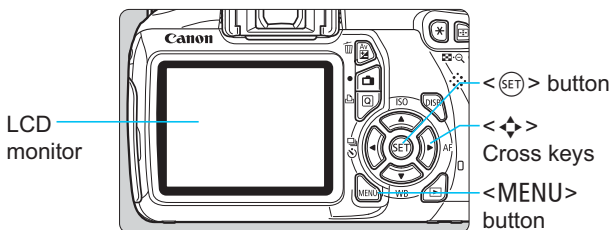
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Quick Reference Guide

Menu Operations



1. Press the **<MENU>** button to display the menu.
2. Press the **<◀▶>** key to select a tab, then press the **<▲▼>** key to select the desired item.
3. Press **<SET>** to display the setting.
4. After setting the item, press **<SET>**.

Basic Zone Modes



Movie Shooting Mode



Creative Zone Modes

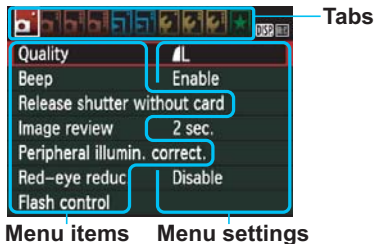
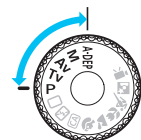
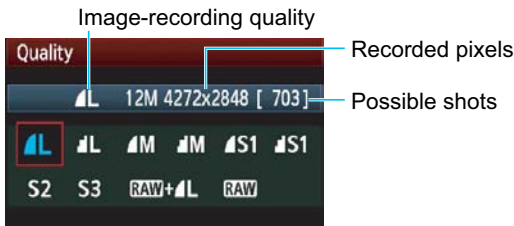


Image-recording Quality

- Select [**Quality**], then press <SET>.
- Press the <◀▶> key to select the quality, then press <SET>.



Picture Style ☆

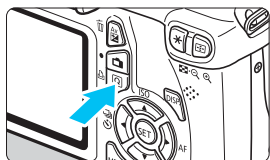


- Select [**Picture Style**], then press <SET>.
- Press the <▲▼> key to select the Picture Style, then press <SET>.

Style	Description
Standard	Vivid colors and sharp images.
Portrait	Nice skin tones and slightly sharp images.
Landscape	Vivid blue skies and greenery and very sharp images.
Monochrome	Black-and-white images.

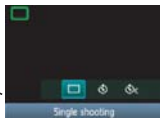
- For <◻◻◻◻> (Neutral) and <◻◻◻◻> (Faithful), see page 80.

Q Quick Control

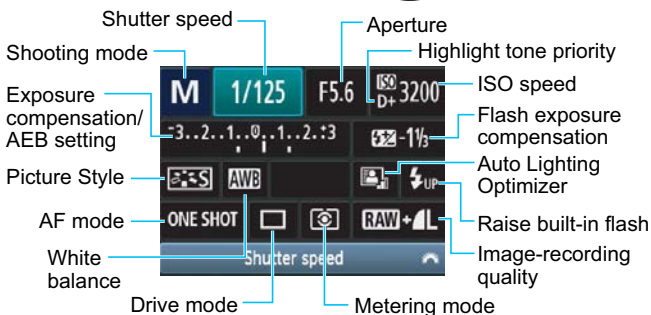


- Press the <Q> button.
- ▶ The Quick Control screen will appear.

Basic Zone Modes

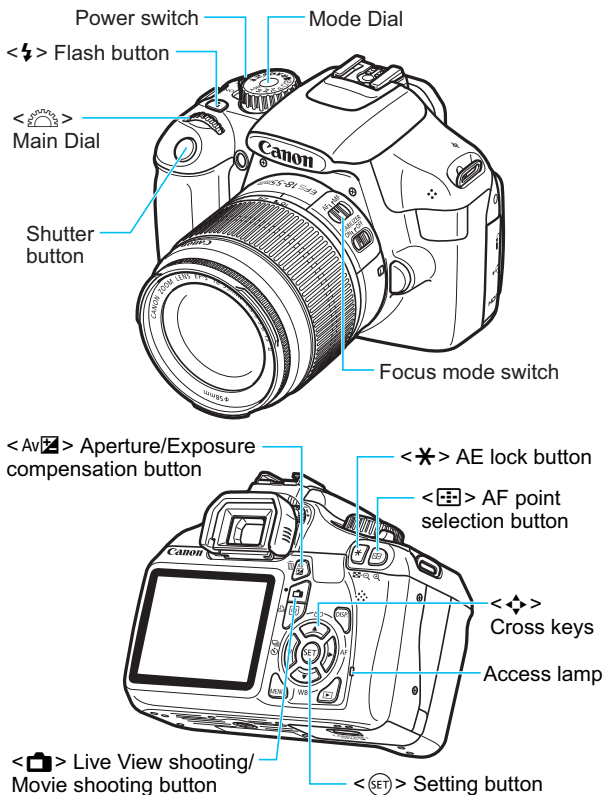


Creative Zone Modes

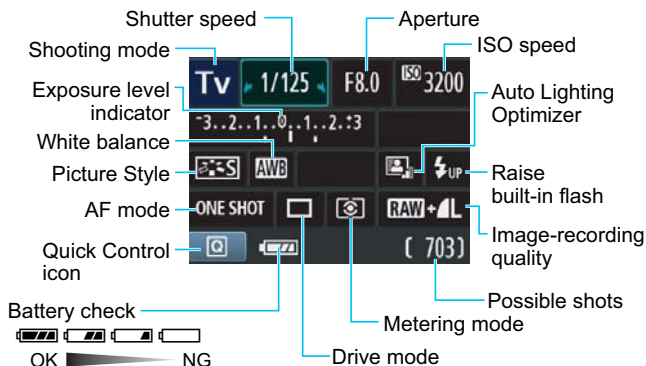


- In Basic Zone modes, the settable functions differ depending on the shooting mode.
- Press the <Q> key to select a function, then turn the <Q> dial to set it.
- To raise the built-in flash, select <UP>, then press <SET>.

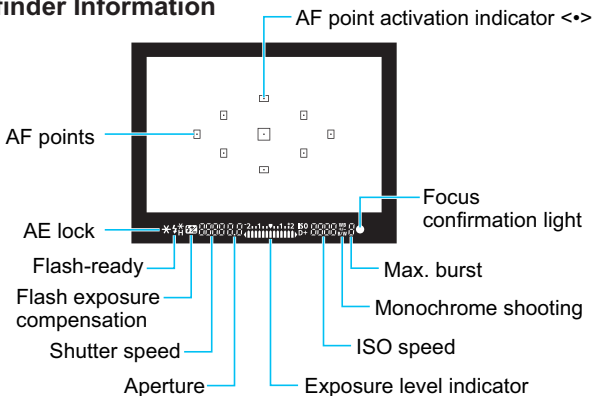
Nomenclature



Shooting Settings Display



Viewfinder Information



Basic Zone Modes



All the settings necessary for shooting are set automatically. You just press the shutter button, and the camera does the rest.

Full Auto

Flash Off

Creative Auto

Portrait

Landscape

Close-up

Sports

Night Portrait

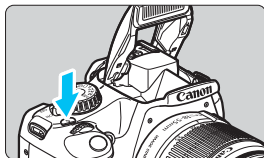
- Pressing the button will display the Quick Control screen. In the ///// shooting mode, press the key to select the function, then press the key or turn the dial to set it as desired.

⚡ Using the Built-in Flash

Basic Zone Modes

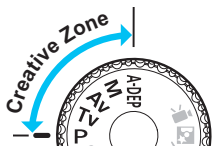
If necessary, the built-in flash will pop-up automatically in low-light or backlit conditions (except in the modes).

Creative Zone Modes



- Press the button to raise the built-in flash, then shoot.

Creative Zone Modes



You can change the camera settings as desired to shoot in various ways.

P: Program AE

The camera automatically sets the shutter speed and aperture in the same way as the $\square$ mode.

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

Tv: Shutter-priority AE



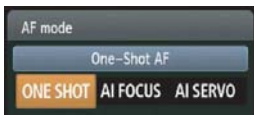
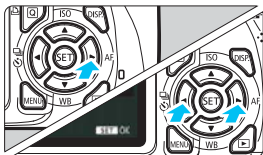
- Set the Mode Dial to **<Tv>**.
- Turn the <Sun/Icon> dial to set the desired shutter speed, then focus the subject.
- ▶ The aperture will be set automatically.
- If the aperture display blinks, turn the <Sun/Icon> dial until it stops blinking.

Av: Aperture-priority AE



- Set the Mode Dial to **<Av>**.
- Turn the <Sun/Icon> dial to set the desired aperture, then focus the subject.
- ▶ The shutter speed will be set automatically.
- If the shutter speed display blinks, turn the <Sun/Icon> dial until it stops blinking.

AF: AF Mode ☆



- Set the lens focus mode switch to **<AF>**.
- Press the **<▶ AF>** button.
- Press the **<◀▶>** key or turn the **<☀>** dial to select the AF mode, then press **<SET>**.

ONE SHOT (One-Shot AF):

For still subjects

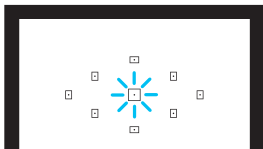
AI FOCUS (AI Focus AF):

Switches the AF mode automatically

AI SERVO (AI Servo AF):

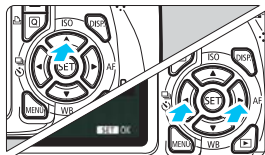
For moving subjects

AF Point ☆



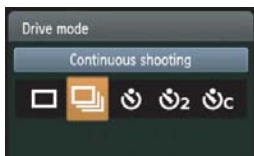
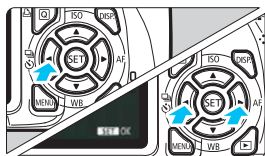
- Press the **<3x3 grid>** button.
- Press the **<◀◆>** key to select the AF point.
- While looking through the viewfinder, you can select the AF point by turning the **<☀>** dial until the desired AF point flashes in red.
- Pressing **<SET>** toggles the AF point selection between the center AF point and automatic AF point selection.

ISO: ISO Speed ☆



- Press the <▲ ISO> button.
- Press the <◀▶> key or turn the <⚙> dial to select the ISO speed, then press <SET>.
- When [AUTO] is selected, the ISO speed is set automatically. When you press the shutter button halfway, the ISO speed setting will be displayed.

Drive Mode ☆



- Press the <◀ [Drive Mode] > button.
- Press the <◀▶> key or turn the <⚙> dial to select the drive mode, then press <SET>.
- : Single shooting
- [Drive Mode] : Continuous shooting
- ⌚ : Self-timer: 10 sec*
- ⌚₂ : Self-timer: 2 sec
- ⌚_C : Self-timer: Continuous*

* The <⌚> and <⌚_C> drive modes can be selected in all shooting modes (except <[Movie]>).

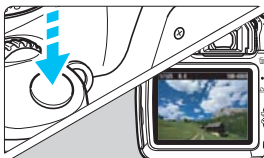
Live View Shooting



- Press the  button to display the Live View image.



- Press the shutter button halfway to focus.



- Press the shutter button completely to take the picture.

- Live View shooting settings will appear under the  menu tab in Basic Zone modes and under the  menu tab in Creative Zone modes.

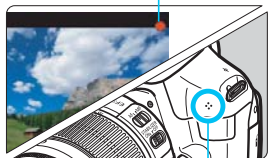
● Battery Life with Live View Shooting

Temperature	No Flash	50% Flash Use
At 23°C / 73°F	Approx. 240 shots	Approx. 220 shots

Shooting Movies



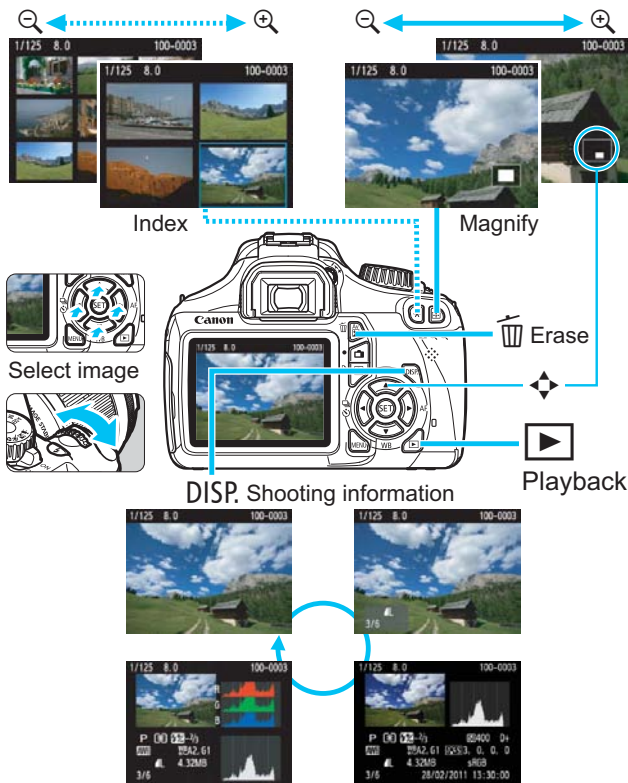
Recording movie



Microphone

- Set the Mode Dial to <>.
- Press the shutter button halfway to focus.
(In the <> mode, you cannot take still photos even if you press the shutter button completely.)
- Press the <> button to start shooting a movie.
- To stop movie shooting, press the <> button again.

Image Playback



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The product and associated warranty are provided in European countries by Canon Europa N.V.

This Instruction Manual booklet is current as of January 2011. For information on the camera's compatibility with any accessories and lenses introduced after this date, contact any Canon Service Center.