

Specifications

Type

Digital, AF/AE single-lens reflex camera with built-in flash

Recording Media

SD/SDHC/SDXC card, via external media (USB v.2.0 hard drive, or via Wireless LAN (Eye-Fi card*))

*Canon cameras are not guaranteed to support Eye-Fi card functions, including wireless transfer. In case of an issue with the Eye-Fi card, please consult with the card manufacturer. The use of Eye-Fi cards may not be approved in all regions, or from one region to another; please contact the card manufacturer for status of approval in the country/region of use.

Image Format

Approx. 22.3mm x 14.9mm

Compatible Lenses

Canon EF lenses including EF-S lenses

(35mm-equivalent focal length is approx. 1.6x the lens focal length)

Lens Mount

Canon EF mount

Image Sensor

[BACK TO TOP](#)

Type

High-sensitivity, high-resolution, large single-plate CMOS sensor

Pixels

Effective pixels: Approx. 18.00 megapixels

Total pixels: Approx. 18.70 megapixels

Pixel Unit

4.3 μ m square

Aspect Ratio

3:2 (Horizontal : Vertical)

Color Filter System

RGB primary color filters

Low Pass Filter

Fixed position in front of the CMOS sensor

- Fluorine coating on the top surface.

Dust Deletion Feature

(1) Manual cleaning

(2) Dust Delete Data acquisition and appending

The coordinates of the dust adhering to the low-pass filter are detected by a test shot and appended to subsequent images.

The dust coordinate data appended to the image is used by the provided software to automatically erase the dust spots.

Self Cleaning Sensor Unit not included.

Recording System

[BACK TO TOP](#)

Recording Format

Design rule for Camera File System 2.0 and Exif 2.30

File Size

(1) Large: Approx. 17.90 Megapixels (5184 x 3456)

(2) Medium: Approx. 8.00 Megapixels (3456 x 2304)

(3) Small 1: Approx. 4.50 Megapixels (2592 x 1728)

(4) S2: Approx. 2.50 Megapixels (1920 x 1280)

(5) S3: Approx. 0.35 Megapixels (720 x 480)

(6) RAW: Approx. 17.90 Megapixels (5184 x 3456)

Exact file sizes depend on the subject, ISO speed, Picture Style, etc.

File Numbering

Consecutive numbering, auto reset, manual reset

RAW + JPEG Simultaneous Recording

Provided (RAW + JPEG)

Color Space

sRGB, Adobe RGB

Picture Style

Standard, Portrait, Landscape, Neutral, Faithful, Monochrome, User Defined 1-3

White Balance

[BACK TO TOP ▲](#)

Auto White Balance

Auto white balance with the image sensor

Color Temperature Compensation

White balance correction: ± 9 levels

White balance bracketing: ± 3 levels in single-level increments

Blue/amber direction or magenta/green direction possible

Color Temperature Information Transmission

Provided

Viewfinder

[BACK TO TOP ▲](#)

Type

Eye-level SLR (with fixed pentamirror)

Coverage

Vertical/Horizontal approx. 95%

Magnification

Approx. $0.8\times / 22.4^\circ$ (with 50mm lens at infinity, -1 m^{-1} (dpt))

Eye Point

Approx. 21 mm (At -1 m^{-1} from the eyepiece lens center)

Dioptric Adjustment Correction

Adjustable from approx. -2.5 to $+0.5\text{ m}^{-1}$ (dpt)

Focusing Screen

Fixed

Mirror

Quick-return half mirror (transmission: reflection ratio of 40:60)

Viewfinder Information

- 1) AF information (AF points, focus confirmation light)
- 2) Exposure information (Shutter speed, aperture, ISO speed, AE lock, Exposure level, exposure warning)
- 3) Flash information (Flash ready, flash exposure compensation, high-speed sync, FE lock, red-eye reduction light)
- 4) Image information (Highlight tone priority, Monochrome shooting, maximum burst, white balance correction, SD card information)

Depth Of Field Preview

No depth-of-field preview button (Enabled with C.Fn 9-4)

Autofocus

[BACK TO TOP ▲](#)

Type

TTL-CT-SiR AF-dedicated CMOS sensor

AF Points

9-point AF (f/5.6 cross-type AF point at center)

AF Working Range

Center AF Point: EV 0 - 18 (at 73°F/23°C, ISO 100)

Other AF Points: EV 1 - 18 (at 73°F/23°C, ISO 100)

Focusing Modes

(1) Autofocus

- One-Shot AF

- Predictive AI Servo AF

- AI Focus AF (Switches between One-Shot AF and AI Servo AF automatically)

(2) Manual focus (MF)

AF Point Selection

(1) Manual selection

(2) Auto selection

Selected AF Point Display

Indicated by superimposed display in the viewfinder and on the LCD monitor

AF Assist Beam

1) Intermittent firing of built-in flash.

2) Effective range: Approx. 4 m/13.1 ft at center, approx. 3.5 m/11.5 ft at periphery.

With an EOS-dedicated Speedlite attached, the Speedlite's AF-assist beam is emitted instead.

Compatible with 320EX, 270EX II and 270EX AF-assist beam (intermittent flash firing).

Exposure Control

[BACK TO TOP](#)

Metering Modes

63-zone SPC TTL metering with selectable modes

Evaluative metering (linkable to all AF point)

Partial metering (approx. 10% of viewfinder at center)

Center-weighted average metering

Metering Range

EV 1.0 - EV 20.0 (at 73°F/23°C with EF50mm f/1.4 USM lens, ISO 100)

Exposure Control Systems

Creative Zone modes

(1) Program AE (program-shift possible)

(2) Shutter-priority AE

(3) Aperture-priority AE

(4) Manual exposure (including bulb)

Basic Zone modes

(1) Scene Intelligent Auto (Program AE, non-shiftable)

(2) Flash Off

(3) Creative Auto

(4) Portrait

(5) Landscape

(6) Close-up

(7) Sports

(8) Night Portrait

ISO Speed Range

Shooting Mode	ISO Settings
Scene Intelligent Auto, Flash Off, Creative Auto, Landscape, Close-up, Sports, Night Portrait	ISO 100-3200
Portrait	ISO 100
P, TV, Av, M*1	ISO 100-6400*2
With flash	Fixed at ISO 800*3,4,5

*1 ISO 200-6400

*2 ISO 12800

*3 ISO 100-12800

*4 ISO 100-12800

*5 ISO 100-12800

*1: 1 ISO 800 for Bulb exposures.

*2: Depends on the maximum ISO speed that has been set. *3: If fill-flash results in overexposure, ISO 100 is set. *4: When the maximum ISO speed is ISO 400, the speed is fixed at ISO 400.

*5: If a bounce flash with an external Speedlite flash is used in Basic Zone modes (except Night Portrait) or P mode, the ISO speed is automatically set between ISO 800–1600 in accordance with the brightness.

Exposure Compensation

(1) Manual: ± 5 stops in 1/3- or 1/2-stop increments

(2) AEB : ± 2 stops in 1/3- or 1/2-stop increments

AE Lock

Auto AE Lock: Applied in One-Shot AF mode with evaluative metering when focus is achieved.

Manual: By AE lock button in P, Tv and Av modes

Shutter

[BACK TO TOP](#)

Type

Vertical-travel, mechanical, focal-plane shutter with all speeds electronically controlled.

Electronic 1st curtain. Only 2nd curtain mechanically controlled.

Shutter Speeds

1/4000 to 30 sec., Bulb (Total shutter speed range. Available range varies by shooting mode.); X-sync at 1/200 sec.

Settable in 1/3- or 1/2-stop increments.

Shutter Release

Soft-touch electromagnetic release

Self Timer

10-sec. or 2-sec. delay

Shutter Lag Time

(1) During SW-1 ON, time lag between SW-2 ON and start of exposure:

Approx. 0.12 sec.

(2) Time lag between simultaneous SW-1/SW-2 ON and start of exposure: Approx. 0.24 sec.

Time lag with the aperture stopped down by 3 stops or less. Excludes AF operation time.

Remote Control

Compatible with Remote Switch RS-60E3. There is no wireless remote control sensor.

Built in Flash

[BACK TO TOP](#)

Type

Auto pop-up, retractable, built-in flash in the pentamirror

Flash Metering System

E-TTL II autoflash (Evaluative, Average), FE lock

Guide Number

Approx. 9.2/30.2 (at ISO 100 in meters/feet)

Recycling Time

Approx. 2 sec.

Flash Ready Indicator

Flash-ready icon lights in viewfinder

Flash Coverage

Up to 17mm focal length (equivalent to approx. 28mm in 135 format)

FE Lock

Provided

External Speedlite

[BACK TO TOP ▲](#)

Flash Metering

E-TTL II autofocus (evaluative flash metering and average flash metering), FE lock

Flash Exposure Compensation

±2 stops in 1/3-stop or 1/2-stop increments

Drive System

[BACK TO TOP ▲](#)

Drive Modes

- (1) Single shooting
- (2) Continuous shooting
- (3) 10-sec. self-timer
- (4) 2-sec. self-timer
- (5) Continuous shooting after 10-sec. self-timer (2 to 10 shots)

Continuous Shooting Speed

JPEG & RAW: Max. approx. 3.0 fps

Maximum Burst

- (1) JPEG: 69 shots
- (2) RAW: 6 shots
- (3) RAW+JPEG: 4 shots

When the image-recording quality is JPEG, continuous shooting is possible until the memory card becomes full.

* Based on Canon's testing standards with a 8GB test card (3:2 aspect ratio, ISO 100 and Standard Picture Style)

Live View Functions

[BACK TO TOP ▲](#)

Shooting Modes

Still photo shooting and video shooting

Focusing

- 1) Autofocus
 - FlexiZone-Single
 - Face Detection Live mode
 - Quick mode
- 2) Manual Focus

Metering Modes

Real-time Evaluative metering with image sensor

Metering Range

EV 0 to EV 20 (At 23°C/73°F, ISO 100)

Grid Display

- (1) Grid 1: Pair of vertical and horizontal lines
- (2) Grid 2: 5 vertical and 3 horizontal lines

Exposure Simulation

Provided

Silent Shooting

Not provided

Video Shooting

[BACK TO TOP ▲](#)

File Format

MOV (image data: H.264; audio: Linear PCM (monaural))

File Size

[Full HD]
1920 x 1080 (30 fps/25 fps/24 fps): 330 MB/min.
mini

[HD]

1280 x 720 (60 fps/50fps): 330 MB/min.

[SD]

640 x 480 (30 fps/25fps): 82.5 MB/min.

* If the file size exceeds 4GB, a new file will be automatically created.

** SD Class 6 or higher required.

Frame Rates

1920 x 1080 (Full HD): 30p (29.97) / 24p (23.976) / 25p

1280 x 720 (HD): 60p (59.94) / 50p

640 x 480 (SD): 30p (29.97) / 25p

Continuous Shooting Time

Approx. 29 min. 59 sec.

Focusing

Autofocus: FlexiZone-Single, Quick mode, Face Detection Live mode; manual

Exposure Control

(1) Program AE for movie shooting

* Shutter speed 1/30 - 1/4000 sec. (signal accumulation time), aperture and ISO speed automatically set

(2) Manual Exposure

- The ISO speed, aperture, and shutter speed (signal-accumulation time ranging from 1/30 sec. to 1/4000 sec.) are set manually.

Exposure Compensation

± 3 stops in 1/3-stop increments

LCD Monitor

[BACK TO TOP](#)

Type

TFT color, liquid-crystal monitor

Monitor Size

3.0-inch (Screen aspect ratio of 4:3)

Pixels

Approx. 460,000 dots

Coverage

Approx. 100%

Brightness Control

Adjustable to one of seven brightness levels

Coating

None

Interface Languages

25 (English, German, French, Dutch, Danish, Portuguese, Finnish, Italian, Norwegian, Swedish, Spanish, Greek, Russian, Polish, Hungarian, Czech, Romanian, Ukrainian, Turkish, Arabic, Thai, Simplified Chinese, Traditional Chinese, Korean and Japanese)

Playback

[BACK TO TOP](#)

Display Format

(1) Single image display

- Single image, basic information, detailed information, histogram display

(2) Index display

- 4-image index and 9-image index.

(3) Jump display (Image jump w/ Main Dial)

- 1/10/100 images, shooting date, by folder, movies, stills, rating

Highlight Alert

On the detailed information and histogram displays, highlight areas with no image data will blink.

Quick Control Function

[BACK TO TOP ▲](#)

Items

When you press the Quick Control button under the following conditions, you can set the functions below (The settable functions depend on the shooting mode):

(1) With viewfinder shooting:

Shutter speed, aperture, ISO speed, exposure compensation, AEB, flash exposure compensation, Picture Style, white balance, Auto Lighting Optimizer, raise built-in flash, AF mode, drive mode, metering mode, and image-recording quality.

(2) With Live View shooting:

AF mode, drive mode, white balance, Picture Style, Auto Lighting Optimizer, image-recording quality, ISO speed and raise built-in flash (with C.Fn).

(3) With movie shooting:

AF mode, white balance, Picture Style, and Auto Lighting Optimizer.

Image Protection and Erase

[BACK TO TOP ▲](#)

Protection

Erase protection can be applied/canceled for a single image, all images in a folder, or all images in the card.

Erase

Erase single image, erase selected images, erase all images on folder, erase all images in a card, or erase only unprotected images.

Direct Printing

[BACK TO TOP ▲](#)

Compatible Printers

PictBridge-compatible printers

Printable Images

JPEG images complying to Design rule for Camera File System

- RAW images printable.
- Movies cannot be printed.

DPOF: Digital Print Order Format

[BACK TO TOP ▲](#)

DPOF

Version 1.1 compatible

Customization

[BACK TO TOP ▲](#)

Custom Functions

11 Custom Functions with 33 settings settable with the camera

Custom Controls

Not Provided

Camera User Settings

Not provided

My Menu Registration

Up to six top-tier menu options and Custom Function settings can be registered.

Interface

[BACK TO TOP ▲](#)

USB Terminal

Hi-Speed USB-standard mini-B terminal for personal computer communications and PictBridge.

Video Out Terminal

- 1) Type C (Switches automatically to suit the resolution)
- 2) Video output: 1. 1080/60i. 2. 1080/50i. 3. 480/60p. 4. 576/50p

* Switches automatically to 1, 2, 3, or 4 to suit the TV.

Extension System Terminal

Compatible with Remote Switch RS-60E3

Gigabit-Ethernet

Compatible (*Canon cameras are not guaranteed to support Eye-Fi card functions, including wireless transfer. In case of an issue with the Eye-Fi card, please consult with the card manufacturer. The use of Eye-Fi cards may not be approved in all regions, or from one region to another; please contact the card manufacturer for status of approval in the country/region of use.)

Power Source

[BACK TO TOP](#)

Battery

Battery Pack LP-E10 x 1 * With the AC Adapter Kit ACK-E10, AC power is possible.

Battery Life

Number of shots (approx.)

Shooting Method	Shooting Conditions	Temperature	
		At 73°F/23°C	At 32°F/0°C
Viewfinder Shooting	No Flash	Approx. 600	Approx. 500
	50% Flash Use	Approx. 500	Approx. 410
Live View Shooting	No Flash	Approx. 190	Approx. 180
	50% Flash Use	Approx. 180	Approx. 170
Video Shooting		Total: 1 hr. 15 min.	Total: 1 hr. 10 min.

Battery Check

Automatic battery level check when power is turned ON. Battery level indicated in one of four levels on LCD monitor.

Power Saving

Provided. Power turns off after 1, 2, 4, 8, 15 min.

Date/Time Battery

Built-in secondary battery. When fully-charged, the date/time can be maintained for about three months.

* Recharge time for backup battery: Approx. 8 hours

Start-up Time

Approx. 0.1 sec. (Based on CIPA testing standards)

Dimensions and Weight

[BACK TO TOP](#)

Dimensions (W x H x D)

Approx. 5.10 (W) x 3.93 (H) x 3.07 (D) in./ Approx. 129.6 (W) x 99.7 (H) x 77.9 (D) mm

Weight

Approx. 16.93 oz. / 480g (CIPA Standard)

Approx. 15.34 oz. / 435g (Body only)

Operating Environment

[BACK TO TOP](#)

Working Temperature Range

32-104°F/0-40°C

Working Humidity Range

85% or less

All data are based on Canon's Standard Test Method. Subject to change without notice.

If a problem occurs with a non-Canon lens attached to the camera, consult the lens maker.

Canon, DIGIC and EOS Rebel are registered trademarks of Canon Inc. in the United States and may also be registered trademarks or trademarks in other countries. Microsoft, Windows and Windows Vista are

trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries. Mac is a trademark of Apple, Inc., registered in the United States and other countries. HDMI, the HDMI logo and High-Definition Multimedia Interface are registered trademarks or trademarks of HDMI Licensing, LLC in the United States and/or other countries. All other products and brand names are registered trademarks, trademarks or service marks of their respective owners in the United States and/or other countries.

[BACK TO TOP](#) 