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 μm 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

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. 0.8x / 22.4° (with 50mm lens at infinity, -1 m⁻¹ (dpt))

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

Dioptric Adjustment Correction
Adjustable from approx. -2.5 to +0.5 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

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)

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

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: 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

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

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

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

Flash Metering
E-TTL II autoflash (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

Drive Modes
(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

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

Silent Shooting
Not provided

Video Shooting

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.
[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

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, Ukraine, Turkish, Arabic, Thai, Simplified Chinese, Traditional Chinese, Korean and Japanese)

Playback

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

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

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

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

DPOF
Version 1.1 compatible

Customization

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

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

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

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

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.
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