

Specifications

Type of Camera	
Type	Digital, AF/AE single-lens reflex camera with built-in flash
Recording Media	SD, SDHC and SDXC Memory Cards Not compliant to UHS-I (Ultra High Speed) standards. Compatible with Eye-Fi Cards. Multimedia cards (MMC) cannot be used. (A card error will be displayed.)
Image Format	Approx. 22.3mm x 14.9mm
Compatible Lenses	Canon EF Lenses (including EF-S lenses, excluding EF-M lenses)
Lens Mount	Canon EF Mount
Image Sensor	
Type	CMOS Sensor
Effective Pixels	Approx. 18.00 megapixels
Total Pixels	Approx. 18.70 megapixels
Pixel Unit	Approx. 4.30 µm square
Aspect Ratio	3:2 (Horizontal: Vertical)
Color Filter System	RGB primary color filters
Low Pass Filter	Fixed position in front of the image sensor
Dust Deletion Feature	(1) 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. (2) Manual cleaning - Self Cleaning Sensor Unit not provided.
Recording System	
Recording Format	Design Rule for Camera File System 2.0 and EXIF 2.3
Image Format	Still Image: JPEG, RAW (14 bit Canon original) Video: MOV (Movie: MPEG4 AVC/H.264*; Audio: Linear PCM) * Variable (average) bit rate
File Size	Large: Approx. 17.90 Megapixels (5184 x 3456) Medium: Approx. 8.00 Megapixels (3456 x 2304) Small 1: Approx. 4.50 Megapixels (2592 x 1728) Small 2: Approx. 2.50 Megapixels (1920 x 1280) Small 3: Approx. 0.35 Megapixels (720 x 480) RAW: Approx. 17.90 Megapixels (5184 x 3456)

File Numbering	The following three types of file numbering methods can be set: (1) Continuous numbering - The numbering of captured images will continue even after you replace the card. (The numbering continues even when the folder changes.) (2) Auto reset - When you replace the card, the numbering will be reset to start from 0001. If the new card already contains images, the numbering will continue from the last recorded image in the card. (3) Manual reset - Resets the file number to 0001, and creates a new folder automatically.
Color Space	sRGB, Adobe RGB
Picture Style	(1) Auto (2) Standard (3) Portrait (4) Landscape (5) Neutral (6) Faithful (7) Monochrome (8) User Defined 1–3 a. In Basic Zone modes, “Auto” is set automatically. b. In Creative Zone modes, you can select and set the Picture Style. c. Default settings for [User Defined 1–3] are [Auto].
White Balance	
Auto White Balance	Auto white balance with the image sensor
Color Temperature Compensation	Blue/amber bias: ± 9 levels Magenta/green bias: ± 9 levels Corrected in reference to the current WB mode's color temperature.
Color Temperature Information Transmission	Provided
Viewfinder	
Type	Eye-level single lens reflex (with fixed pentamirror)
Coverage	Approx. 95% vertically and horizontally (with Eye point approx. 21mm)
Magnification/ Angle of View	Approx. 0.8x / 22.4° (-1m^{-1} (dpt) with 50mm lens at infinity)
Eye Point	Approx. 21mm (At -1m^{-1} from 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 (Transmittance: reflectance 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	Enabled with Custom Function

Autofocus	
Type	TTL secondary image-forming phase-difference detection system with AF-dedicated CMOS sensor
AF Points	9 points Cross-type AF sensitive to f/5.6 with center AF point
AF Working Range	With One-Shot AF EV 0–18 (center AF point) EV 1–18 (other AF points) (at room temperature and ISO 100, based on Canon's testing standards)
Focusing Modes	(1) Autofocus 1. One-Shot AF 2. Predictive AI Servo AF 3. AI Focus AF • Switches between One-Shot AF and AI Servo AF automatically. (2) Manual focus
AF Point Selection	(1) Manual selection (2) Auto selection • AF point selection for Basic Zone modes is fixed to Automatic selection.
Selected AF Point Display	Indicated by superimposed display in the viewfinder and on the LCD monitor.
AF Assist Beam	Intermittent firing of built-in flash Effective range: Center: Approx. 13.1 ft. / 4.0m Periphery: Approx. 11.5 ft. / 3.5m With an EOS-dedicated Speedlite attached, the Speedlite's AF-assist beam is emitted instead.
Exposure Control	
Metering Modes	Dual-layer metering sensor with the area divided into 63 zones. (1) Evaluative metering (linked to all AF points) (2) Partial metering at the center of the viewfinder (approx. 10% of viewfinder) (3) Center-weighted average metering *Spot metering mode not provided.
Metering Range	EV 1–20 (room temperature, ISO 100, evaluative metering)
Exposure Control Systems	Creative Zone (1) Program AE (Shiftable) (2) Shutter-priority AE (3) Aperture-priority AE (3) Manual exposure (including bulb) Basic Zone (1) Scene Intelligent Auto (Program AE/non-shiftable) (2) Flash Off (3) Creative Auto (4) Portrait (5) Landscape (6) Close-up (7) Sports (8) Food (9) Night Portrait

ISO Speed Range	Manual ISO setting: ISO 100–6400 (in whole-stop increments), expandable equivalent to ISO 12800. If highlight tone priority is set, the ISO speed is automatically set within ISO 200 to ISO 6400. ISO Auto setting: ISO 100–6400 In Creative Zone modes, the maximum ISO speed (ISO 400, 800, 1600, 3200 or 6400) for ISO Auto can be set. <table><tr><th>Shooting Mode</th><th>ISO Settings</th></tr><tr><td>Scene Intelligent Auto, Flash off, Creative Auto, Landscape, Close-up, Sports, Food, Night Portrait</td><td>ISO 100–3200</td></tr><tr><td>Portrait</td><td>ISO 100</td></tr><tr><td>P, Tv, Av, M*¹</td><td>ISO 100–6400*²</td></tr><tr><td>With flash</td><td>ISO 800*^{3,4,5,6}</td></tr></table> ^{*1} ISO 800 for Bulb exposures. ^{*2} Depends on the maximum ISO speed that has been set. ^{*3} If fill-flash results in overexposure, the ISO speed can be set to ISO 100 at the minimum. ^{*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 is used in Basic Zone modes (except Night Portrait) or P mode, the ISO speed is automatically set within ISO 800 to ISO 1600 (or up to the maximum ISO speed) in accordance with the brightness. ^{*6} Fixed to ISO 400 in Food mode. If you use bounce flash with an external Speedlite in P mode, the ISO speed is automatically set in the range within ISO 400 to ISO 1600.	Shooting Mode	ISO Settings	Scene Intelligent Auto, Flash off, Creative Auto, Landscape, Close-up, Sports, Food, Night Portrait	ISO 100–3200	Portrait	ISO 100	P, Tv, Av, M* ¹	ISO 100–6400* ²	With flash	ISO 800* ^{3,4,5,6}							
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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 • If the exposure compensation exceeds ±2 stops, the left or right icon will appear in the viewfinder. • Manual exposure compensation and AEB can be set in combination. • AEB is set in the following sequence: Standard exposure, decreased exposure and increased exposure. • If AEB is used with the self-timer, the three bracketed shots will be taken in succession after the 10-sec. or 2-sec. delay. Correction Factor <table><tr><th rowspan="2">Shooting Mode</th><th colspan="2">Correction Factor</th></tr><tr><th>Shutter Speed</th><th>Aperture</th></tr><tr><td>P</td><td>Yes</td><td>Yes</td></tr><tr><td>Tv</td><td>–</td><td>Yes</td></tr><tr><td>Av</td><td>Yes</td><td>–</td></tr><tr><td>M</td><td>Yes</td><td>–</td></tr></table>	Shooting Mode	Correction Factor		Shutter Speed	Aperture	P	Yes	Yes	Tv	–	Yes	Av	Yes	–	M	Yes	–
Shooting Mode	Correction Factor																	
	Shutter Speed	Aperture																
P	Yes	Yes																
Tv	–	Yes																
Av	Yes	–																
M	Yes	–																
AE Lock	(1) Auto AE lock • In the One-Shot AF mode with evaluative metering, AE lock takes effect when focus is achieved. (2) Manual AE lock • In P, Tv and Av modes, possible with the AE lock button. (Press again to update.) • Possible in all metering modes.																	

Shutter	
Type	Vertical-travel shutter with electronic first-curtain control and mechanical second-curtain control
Shutter Speeds	1/4000 to 30 sec., Bulb (Total shutter speed range) 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.
Remote Control	Possible by using Remote Switch RS-60E3
Built-in Flash	
Type	Auto pop-up, retractable, built-in flash at the pentamirror
Flash Metering System	E-TTL II autoflash (Evaluative, Average), FE lock
Guide Number	Approx. 30.2 ft./9.2m (at ISO 100)
Recycling Time	Approx. 2 sec.
Flash Coverage	Up to approx. 17mm focal length (equivalent to approx. 28mm in 135 format)
Flash Exposure Compensation	Up to ± 2 stops in 1/3- or 1/2-stop increments Flash exposure compensation for built-in flash and external Speedlite can be set with the camera.
FE Lock	Possible
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- or 1/2-stop increments
Drive System	
Drive Mode	(1) Single shooting (2) Continuous shooting • Max. approx. 3.0 fps • Shutter speed 1/500 sec., Maximum aperture • Continuous shooting speed may become slower depending on the shutter speed, aperture, subject condition, brightness, lens kind, flash use, battery remaining capacity, etc. (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	Max. approx. 3.0 fps
Maximum Burst	(1) JPEG: Full • "Full" indicates that continuous shooting is possible until the card becomes full. (2) RAW: 6 shots (3) JPEG + RAW: 5 shots

Image File Size/Number of Possible Shots/Maximum Burst During Continuous Shooting:

Image Recording Quality	File Size (Approx. MB)	Possible Shots (Approx.)	Maximum Burst (Approx.)
Large/Fine	6.4	1110	Full
Large/Normal	3.2	2190	Full
Medium/Fine	3.4	2100	Full
Medium/Normal	1.7	4100	Full
Small 1/Fine	2.2	3270	Full
Small 1/Normal	1.1	6210	Full
Small 2	1.3	5440	Full
Small 3	0.3	21060	Full
RAW + Large/Fine	24.5 + 6.4	230	5
RAW	24.5	290	6

The file size, possible shots and maximum burst during continuous shooting are the values obtained when measurements are done with the 8GB card of Canon's testing standards under the conditions of Canon's testing standards (ISO 100, Picture Style set to Standard). These figures may differ depending on the shooting conditions.

"Full" indicates that continuous shooting is possible until the card becomes full.

Live View Functions	
Shooting Modes	Still photo and video recording
Focusing	(1) Contrast AF 1. FlexiZone-Single • Contrast AF. • Screen coverage is approx. 80% vertically and horizontally. 2. Face Detection Live mode • Contrast AF. • Screen coverage is approx. 80% vertically and horizontally. 3. Quick mode • TTL secondary image registration, phase-difference detection. • Manual selection and Auto selection possible. • Automatically set in Basic Zone modes. (2) Manual focus • Magnify the image by 5x or 10x and focus manually.
Metering Modes	Evaluative metering (315-zone) • AE lock possible. The active metering timer can be changed.
Metering Range	EV 0–20 (room temperature, ISO 100)
Grid Display	One of two types of grids can be selected and displayed on the screen. (1) Grid 1: 2 vertical and 2 horizontal lines (2) Grid 2: 5 vertical and 3 horizontal lines
Exposure Simulation	Provided
Silent Shooting	Not provided

Video Shooting	
File Format	MOV: Movie: MPEG4 AVC/H.264 * Variable (average) bit rate Audio: Linear PCM
File Size	[Full HD] 1920 x 1080 (30 fps/24 fps): 340 MB/min. [HD] 1280 x 720 (60 fps): 340 MB/min. [SD] 640 x 480 (30 fps): 90 MB/min.
Frame Rates	1920 x 1080 (Full HD): 30 fps (29.97 fps) / 24 fps (23.98 fps) 1280 x 720 (HD): 60 fps (59.94 fps) 640 x 480 (SD): 30 fps (29.97 fps)

Continuous Shooting Time

Movie Recording Size		Total Recording Time per Card (approx.)				File Size (approx.)	Bit Rate (Mbps)
		8GB	16GB	32GB	64GB		
1920 x 1080	29.97 fps	22 min.	44 min.	1 hr. 29 min.	2 hr. 59 min.	340 MB/min.	46 Mbps
	23.98 fps						
1280 x 720	59.94 fps	22 min.	44 min.	1 hr. 29 min.	2 hr. 59 min.	340 MB/min.	46 Mbps
640 x 480	29.97 fps	1 hr. 25 min.	2 hr. 50 min.	5 hr. 40 min.	11 hr. 20 min.	90 MB/min.	11 Mbps

* Actual frame rates are as follows:
60 fps: 59.94 fps, 30 fps: 29.97 fps, 24 fps: 23.98 (23.976) fps

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 • For manual exposure. • Shutter speed (signal accumulation time), aperture and ISO speed (auto/manual) manually set. The shutter speed (signal accumulation time) is limited to 1/4000 sec. at the maximum and to 1/30 sec. at the minimum for 24/25/30 fps or to 1/60 sec. or higher for 50/60 fps.
Focusing	(1) Contrast AF (2) Manual focus * Magnify the image by 5x or 10x and focus manually.
Exposure Compensation	Possible (±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) Approx. 7.5cm diagonal (approx. 6.0cm wide, approx. 4.5cm high)
Pixels	Approx. 920,000 dots
Coverage	Approx. 170° vertically and horizontally
Brightness Control	Adjustable to one of seven levels
Coating	Not provided
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/Traditional Chinese, Korean, Japanese)

Playback	
Display Format	(1) Single image display • Basic information • Basic information + image quality/image file number • Shooting information • Histogram display (2) Index display; 4 or 9 images
Highlight Alert	On the detailed information and histogram displays, highlight areas with no image data will blink.
Quick Control Function	
During Shooting	• When you press the Quick Control button while shooting images, you can set various functions. • The functions that can be set vary depending on whether the shooting mode is viewfinder shooting, Live View shooting or movie shooting.
During Playback	• When you press the Quick Control button during playback, you can set various functions. • The functions that can be set vary depending on whether the shooting mode is still photo shooting or movie shooting.
Image Protection and Erase	
Protection	Erase protection can be applied or canceled for a single image, all images in a folder or all images in the card.
Erase	Erase unprotected image(s) with selection from Single image, Selected images, All images on folder or All images in a card.
Direct Printing	
Compatible Printers	PictBridge-compatible printers
Printable Images	RAW and JPEG images compliant to Design rule for Camera File System. Movies cannot be printed.
DPOF: Digital Print Order Format	
DPOF	Compliant to DPOF Version 1.1
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 kinds of function settings can be selected and registered from the Menu options or any of the top-tier menu options of Custom Functions.
Interface	
USB Terminal	Hi-Speed USB (USB 2.0) • For computer communication and PictBridge • For connection with the GPS receiver GP-E2
Video Out Terminal	HDMI Type C (Resolution switches automatically) Video output: (Switches automatically to 1, 2, 3 or 4 to suit the TV set.) (1) 1080/60i (2) 1080/50i (3) 480/60p (4) 576/50p
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.

Wi-Fi® (Wireless LAN) and NFC Functions				
Standards Compliance	IEEE 802.11b/g/n			
Transmission Range	Approx. 49.21 ft. / 15m • When communicating with a smartphone or tablet. • With no obstructions between the antennas and no radio interference from other devices.			
Connection Method	(1) Camera access point mode (2) Infrastructure mode			
NFC Connection	Possible			
Power Source				
Battery	Battery Pack LP-E10 x 1 • The camera can be powered by an AC power supply by using the household power outlet accessories (sold separately).			
Number of Shots	Camera body only			
	Shooting Method	Temperature	Shooting Conditions	
			AE 100%	AE 50%, FA 50% (Based on CIPA testing standards)
	Viewfinder shooting	At 73°F/23°C	Approx. 600	Approx. 500
		At 32°F/0°C	Approx. 580	Approx. 410
	Live View shooting	At 73°F/23°C	Approx. 190	Approx. 180
At 32°F/0°C		Approx. 180	Approx. 170	
Battery Check	Automatic battery check when the power switch is turned ON. Battery level indicated in one of the four levels on LCD monitor.			
Power Saving	Power turns off automatically after the set time of non-operation elapses. • [Auto power off] settable to 30 sec., 1 min., 2 min., 4 min., 8 min., 15 min. or Disable			
Date/Time Battery	Built-in secondary battery Maintains date/time for about 3 months when fully charged			
Start-up Time	Approx. 0.1 sec. (Based on CIPA testing standards)			
Dimensions and Weight				
Dimensions (W x H x D)	Approx. 5.08 x 3.99 x 3.06 in. / 129.0 x 101.3 x 77.6mm • In CIPA guidelines.			
Weight	Approx. 17.11 oz. / 485g (In accordance with CIPA guidelines) Approx. 15.52 oz. / 440g (Body only)			
Operating Environment				
Working Temperature Range	32–104°F/0–40°C			
Working Humidity Range	85% or less			