Type

Type	Digital interchangeable lens, mirrorless camera
Image Processor	DIGIC X
Recording Media	(Two) SD card slots • Compatible with UHS-II • Eye-Fi cards and Multimedia cards (MMC) are not supported.
Compatible Lenses	Canon RF lens group (including RF-S lenses) When using Mount Adapter EF-EOS R: Canon EF or EF-S lenses (excluding EF-M lenses)
Lens Mount	Canon RF mount

Image Sensor

Type	Full-frame CMOS sensor (compatible with Dual Pixel CMOS AF)
Effective pixels	Approx. 24.2 megapixels
Screen Size	Approx. 36.0 x 24.0 mm
Pixel Unit	Approx. 6.00 µm square
Total Pixels	Approx. 25.6 megapixels
Aspect Ratio	3:2 (Horizontal:Vertical)
Color Filter System	RGB primary color filters
Low Pass Filter	Installed in front of the image sensor, non-detachable
Dust Deletion Feature	1. Self Cleaning Sensor Unit ◦ Removes dust adhering to the low-pass filter. ◦ At power off only / Enable / Disable. Performed automatically (taking about approx. 2 sec. as indicated on the screen) or manually (taking about approx. 8 sec. as indicated on the screen). ◦ After manually activated cleaning, the camera will automatically restart (Power OFF to ON). ◦ When [Multi Shot Noise Reduction], [Multiple exposures], or [HDR mode] is set, [Clean now] and [Clean manually] cannot be selected. 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 EOS software to automatically erase the dust spots. ◦ Not available with RF-S/EF-S lenses, in cropped shooting, during focus bracket shooting, in FAW burst mode, or multiple-exposure shooting. 3. Manual cleaning (by hand)

Recording System

Recording Format	Compliant to Design rule for Camera File system 2.0 and Exif 2.31*. *Supports time difference information in Exif 2.31.
Image Format	JPEG, HEIF, RAW / C-RAW / Dual Pixel RAW/ RAW burst (CR3), C-RAW (Canon original) ; Movies: ALL-I (Time-lapse video only), IPB (MP4)
File Size	* At H+ Drive setting (12 fps), using Mechanical or 1st-curtain Electronic shutter. *1: Number of shots using a 32 GB card that conforms to Canon testing standards. *2: Number of shots using a 32 GB UHS-II card that conforms to Canon testing standards. *3: When set to [HDR shooting (HDR PQ): Disable]. *4: When set to [HDR shooting (HDR PQ): Enable].
File Numbering	The following file numbers can be set: 1. File numbering methods a. Continuous numbering i. The numbering of captured images continues even after you replace the card. b. Auto reset i. When you replace the card, the numbering will be reset to start from 0001. If the new SD card already contains images, the numbering will continue from the last recorded image in the card. 2. Manual reset a. Resets the file number to 0001, and creates a new folder automatically.
RAW + JPEG / HEIF Simultaneous Recording	Simultaneous recording of any combination of RAW/C-RAW and JPEG/HEIF image-recording quality is supported.
Color Space	Selectable between sRGB and Adobe RGB
Picture Style	1. Auto 2. Standard 3. Portrait 4. Landscape 5. Fine Detail 6. Neutral 7. Faithful 8. Monochrome 9. User Defined 1-3 ◦ In Scene Intelligent Auto, [Auto] will be set automatically. ◦ [Standard] is the default setting for [User Def. 1-3].

White Balance

Settings	1. Auto (Ambience priority/White priority) 2. Day Light 3. Shade 4. Cloudy[*1] 5. Tungsten light 6. White fluorescent light 7. Flash 8. Custom (Custom WB) 9. Color temperature[*2] [*1]: Effective also in twilight and sunset. [*2]: White balance can be adjusted during movie recording.
Auto White Balance	Option between ambience priority and white priority settings, using SET button
White Balance Shift	Blue/amber bias: ±9 levelsMagenta/green bias: ±9 levelsCorrected in reference to the current WB modes color temperature.

Viewfinder

Type	OLED color electronic viewfinder; 0.5-inch, approx. 3.69 million dots
Coverage	Approx. 100% vertically and horizontally relative to the shooting image area (with image quality L, at approx. 23mm eyepoint).
Magnification / Angle of View	Approx. 0.76x / Approx. 35.2 degrees (with 50mm lens at infinity, -1 m^{-1})
Eye Point	Approx. 23mm (at -1 m^{-1} from the eyepiece lens end)
Dioptric Adjustment Range	Approx. -4.0 to + 2.0 m^{-1} (dpt)
Viewfinder Information	1. Maximum burst 2. Possible shots/Sec. until self-timer shoots 3. Focus Bracketing/ Multiple-exposure/HDR shooting/Multi Shot Noise Reduction/Bulb time/Interval timer 4. Shooting mode 5. AF method 6. AF operation 7. Image quality 8. Card 9. Drive mode 10. Metering mode 11. No. of remaining shots for focus braketing, multiple exposures, or interval timer

11. No. of remaining shots for focus bracketing, multiple exposures, or interval timer

12. Electronic level

13. Movie recording time available

14. Battery level

15. Image Stabilizer (IS mode)

16. Histogram (Brightness/RGB)

17. Quick Control button

18. Anti-flicker shooting

19. White balance/White balance correction

20. Picture style

21. Auto Lighting Optimizer

22. Still photo cropping / Aspect ratio

23. AF point (1-point AF)

24. AEB/FEB

25. View Assist

26. HDR PQ

27. Flash ready / FE lock / High-speed sync

28. Electronic shutter

29. Touch shutter / Create folder

30. AE lock

31. Shutter speed / Multi-function lock warning

32. Aperture value

33. Wi-Fi® function

34. Wi-Fi® signal strength

35. Bluetooth® function

36. Exposure simulation

37. Magnify button

38. ISO speed

39. Highlight tone priority

40. Exposure compensation

41. Exposure level indicator

Autofocus

Focus Method	Dual Pixel CMOS AF
Number of AF zones available for Automatic Selection	AF area: Horizontal: Approx. 100% x Vertical: Approx. 100% (100% x 100% AF coverage in Face Detect + Tracking AF; coverage can vary, depending upon lens being used) Stills: Max. 1053 zones (39 x 27) Movies: Max. 1053 zones (39 x27)
Selectable Positions for AF Point	AF area: Horizontal: Approx. 90% x Vertical: Approx. 100% Stills: Max. 4897 positions (83 x 59) Movies: Max 4067 positions (83 x 49)
AF Working Range	EV -6.5 to 20 (f/1.2 lens*, center AF point, One-Shot AF,at 73°F/23°C, ISO 100 * Except RF lenses with a Defocus Smoothing (DS) coating.
Focusing brightness range (still photo shooting)	EV –6.5 to 21 (with an f/1.2 lens,* center AF point, One-Shot AF at room temperature, and ISO 100) * Except RF lenses with a Defocus Smoothing (DS) coating.
Focusing brightness range (in movie recording)	4K: EV –4.0 to 21 Full HD: EV –4.5 to 21 (with an f/1.2 lens,* center AF point, One-Shot AF at room temperature, ISO 100, and 29.97 / 25.00 fps.) * Except RF lenses with a Defocus Smoothing (DS) coating.
Available AF Areas	• Spot AF • 1-point AF • Expand AF area: Above/below/left/right • Expand AF area: Around • Flexible Zone AF 1 • Flexible Zone AF 2 • Flexible Zone AF 3 • Whole area AF
Available Subject Detection	• Auto • People • Animals (dogs / cats / birds / horses) • Vehicles (motorsports cars or motorcycles / aircraft / trains) * Certain types of animals or vehicles may not be detected, depending on shape and appearance
Eye Detection	Auto: 1. Selects the eye closer to the camera (as detected from the angle of the face). 2. At the same distance from the camera, selects the eye closer to the center of the image. Manual: 1. Can be selected by touch. 2. Can be selected with the Multi-controller.

Exposure Control

Metering Modes	Real-time metering from CMOS image sensor (384 [24x16] metering zones) 1. Evaluative metering (AF point-linked) 2. Partial metering (approx. 5.9% of the area at the center of the screen) 3. Spot metering (approx. 3.0% of the area at the center of the screen) 4. Center-weighted average metering
Metering Range	EV -3 - 20 (at 73°F/23°C, ISO 100)(Still Photo Shooting)
Exposure Modes	1. Scene Intelligent Auto 2. Hybrid Auto 3. Special Scenes 4. Creative Filters 5. Flexible-priority AE 6. Program AE 7. Shutter-priority AE 8. Aperture-priority AE 9. Manual Exposure 10. Bulb Exposure 11. Custom Shooting Modes C1, C2, C3
ISO Speed Range	**Manually Set** • For [Highlight tone priority], the settable ISO speed range will be ISO 200 to 102400. • Expanded ISO cannot be set for HDR mode or during HDR PQ shooting. **ISO Auto range settings in still photo shooting** *1: ISO 200 when set to [Highlight tone priority: Enable/Enhanced]. *2: Varies depending on the [Maximum] and [Minimum] settings for [Auto range]. *3: If outside the setting range, changed to the value closest to ISO 400.
Exposure Compensation	Click here to view the full specifications PDF.
AE Lock	1. Auto AE lock ◦ AE is locked as soon as subjects are in focus using One-Shot AF when set to selected metering mode in [C.Fn2: AE lock meter. mode after focus]. ◦ User-set AE lock. ▪ Use the AE lock button (update by pressing the button again) in Fv, P, Tv, Av, and M mode. ▪ Enabled in all metering modes.9

Shutter

Type	Electronically controlled focal-plane shutter 1. Electronic first curtain 2. Mechanical shutter 3. Electronic shutter* * Cannot be used in conjunction with the following functions: flash photography, HDR shooting, multiple exposures, Multi Shot Noise Reduction, AEB, HDR PQ, anti-flicker shooting, Dual Pixel RAW shooting, Digital Lens Optimizer [High]. * A shutter release sound is not generated. However, note that the sounds other than the shutter release sound (aperture, focusing lens drive sound/electronic sound, etc.) may be generated. * In electronic shutter shooting under conditions such as flash firing by other cameras or with fluorescent lighting or other flickering light sources, a strip of light or banding due to the brightness difference may be recorded in the image.
Shutter Speeds	When [Mechanical] or [Elec. 1st- curtain] is set: 1/8000-30 sec, bulb When [Electronic] is set: 1/8000-0.5 sec.
X-sync Speed	Mechanical Shutter: 1/200 sec. Elec. 1st-curtain: 1/250 sec.
Shutter Release	Soft-touch electromagnetic release
Self Timer	10-sec. delay, 2-sec. delay

Image Stabilization (IS mode)

Still Photo IS	In-body IS operation can be selected when using a non-IS lens. • Always on • Only for shot (no stabilization in viewfinder/LCD screen between shots) Coordinated IS when used with Canon RF or RF-S lenses having optical Image Stabilization

External Speedlite

Accessory Shoe	Canon Multi-function accessory shoe Optional Canon AD-E1 adapter required for conventional shoe-mount flashes and accessories
E-TTL balance	Ambience priority, standard, flash priority
Flash Exposure Compensation	±3 stops in 1/3- or 1/2-stop increments
Continuous flash control	E-TTL each shot / E-TTL 1st shot

Drive System

Drive Modes and Continuous Shooting Speed	Click here to view the full specifications PDF.

HDR Shooting

HDR Shooting (HDR PQ)	Disable / Enable
Still Photo HDR PQ	Click here to view the full specifications PDF.
Movie HDR PQ	Click here to view the full specifications PDF.
Continuous HDR Shooting (still images)	1 shot only / Every shot

Video Shooting

Shooting Times	Click here to view the full specifications PDF. *[1] Time available for continuous shooting in 23°C / 73°F environment, from a cold start. If the camera is in LV mode standby before shooting or the ambient temperature is high, the shooting time may be shorter. *[2] According to Canon measurement conditions when using UHS-II cards conforming to Canon testing standards. *[3] The maximum duration of shooting may be shorter under some circumstances even if recording begins from "cold start," due to a rise in temperature inside the camera caused by pre-shooting camera setting operations or by prolonged use of the Live View mode. When the card is full, movie recording stops automatically. In this case, duration time when you erase the data and restart shooting.
File Format	**Normal Movies** Click here to view the full specifications PDF. * Recording in AAC when [Audio compression] (C.Fn4) is set to [Enable] or Linear PCM when set to [Disable].
Estimated Recording time, Movie Bit Rate and File Size	H.264/AVC (Canon Log: Off, HDR PQ: Off) Click here to view the full specifications PDF. * Bit rate only applies to video output, not audio or metadata. * Audio is recorded when [C.Fn4 audio compression:Enable] (Audio: AAC) is set. * Movie recording stops when the maximum recording time per movie is reached. * No audio is recorded for approx. the last two frames with the compression method for movie recording quality set to IPB (Standard) or IPB (Light) and the camera set to [C.Fn4 Audio compression: Enable]. Moreover, the video and sound may be slightly out of sync when movies are played back in Windows. * Mbps — megabits per second (8 megabits = 1 megabyte)
Estimated Recording Time, Continued.	H.265/HEVC (Canon Log: On or HDR PQ: On) Click here to view the full specifications PDF. * Bit rate only applies to video output, not audio or metadata. * Audio is recorded when [C.Fn4 audio compression:Enable] (Audio: AAC) is set. * Movie recording stops when the maximum recording time per movie is reached. 31 min. * No audio is recorded for approx. the last two frames with the compression method for movie recording quality set to IPB (Standard) or IPB (Light) and the camera set to [C.Fn4 Audio compression: Enable]. Moreover, the video and sound may be slightly out of sync when movies are played back in Windows. * Mbps — megabits per second (8 megabits = 1 megabyte)
Card Performance Requirements	Click here to view the full specifications PDF.
Video AF	Dual Pixel CMOS AF; Movie Servo AF available in AF Menu
Exposure Compensation	±3 stops in 1/3- or 1/2-stop increments
Time Code	Yes (Count up, Start time setting, Movie recording count, Movie play count, HDMI time code on/off, HDMI rec. command on/off, Drop frame enable/disable)
Movie Pre-recording (On/Off)	3 or 5 seconds; user-selectable
Time-lapse Movie Setting	Interval 2 sec – 99:59:59; Number of frames 2–3,600; Movie recording size 4K/Full HD; Auto exposure fixed @ first frame/auto for each frame; Beep per frame recorded (volume setting 0/silent – 5)
Time-lapse Playback Frame Rate	29.97 (set to NTSC); 25.00fps (set to PAL)

LCD Screen

Type	TFT color, liquid-crystal monitor
Monitor Size	3.0-inch (screen aspect ratio of 3:2) 2.95 in./7.5cm diagonal (2.44 in./6.2cm width, 1.65 in./4.2cm height)
Dots	Approx. 1.62 million dots
Coverage	Approx. 100% vertically/horizontally
Brightness Control	Manually adjustable to one of seven brightness levels
Touch-screen Operation	Supported for AF Point selection; Touch AF; Touch Shutter; Menu selection; Quick Control Menu; Magnified view
Coating	Clear View LCD II • Anti-smudge coating applied. • Anti-reflection coating not applied.
Interface Languages	29 (English, German, French, Dutch, Danish, Portuguese, Finnish, Italian, Ukraine, Norwegian, Swedish, Spanish, Greek, Russian, Polish, Czech, Hungarian, Vietnamese, Hindi, Romanian, Turkish, Arabic, Thai, Simplified/Traditional Chinese, Korean, Malay, Indonesian, Japanese)

Playback

Highlight Alert	The white areas with no image data will blink.
Histogram	Brightness and RGB

Quick Control Function

Function	The Quick Control screen can be accessed by pressing the Quick Control button during shooting, recording, or playback.
Quick Control Screen	The following settings are available for the [Quick Control screen] during movie recording. • View 1: Conventional Quick Control screen • View 2: Cinema EOS-style Quick Control screen

Image Protection and Erase

Protection	1. Single image (select image) 2. Select range 3. All images in folder 4. All images on card ◦ Image browsing and image search can be based on ratings. ◦ Ratings-based image selections also possible with DPP. 5. All found images (only during image search)
Erase	Except protected images 1. Select images to erase 2. Select range 3. All images in folder 4. All images on card 5. All found images (only during image search)

Direct Printing

Compatible Printers	Not supported

DPOF: Digital Print Order Format

DPOF	Compliant to DPOF Version 1.1

Wi-Fi®

Standards Compliance	IEEE 802.11b/g/n/a/ac
Transmission Method	DS-SS modulation (IEEE 802.11b) OFDM modulation (IEEE 802.11g/n/a/ac)
Transition Frequency (Central Frequency)	2.4 GHz band Frequency: 2412 to 2462 MHz Channels: 1 to 11 channels **5.0 GHz band** Frequency: 5180 to 5825 MHz Channels: 36 to 165 channels1
Connection Method	(1) Camera access point mode (2) Infrastructure mode
Communication with a Smartphone	• Images can be viewed, controlled, and received using a smartphone. • Remote control of the camera using a smartphone is possible depending on the Camera Connect specifications. • Images can be sent to a smartphone. • NFC connection: Not supported • Supported images: JPEG, HEIF, RAW/C-RAW, MP4 video files • Transcoding while sending: Size to send (original / reduced size); Quality to send (original / compressed)
Remote Operation Using EOS Utility	The camera can be controlled via Wi-Fi® or USB, with Canon EOS Utility software installed in a compatible Mac or Windows computer.
Print from Wi-Fi® Printers	Not supported.
Send Images to a Web Service	image.canon: Video files (MP4) and JPEG, HEIF, RAW or C-RAW still images can be uploaded to image.canon servers. From image.canon, images can be sent to specific social media and 3rd-party cloud image services.

Bluetooth®

Standards Compliance	Bluetooth Specification Version 5.0 compliant (Bluetooth Low Energy technology)
Transmission Method	GFSK modulation
Bluetooth Pairing	Smartphone — up to 10 devices; BR-E1 remote controller — 1 unit

Customization

Available Functions	Dial direction during Tv/Av; Control ring rotation direction; Customize buttons; Customize dials
Custom Controls	**Customizable Buttons** Click here to view the full specifications PDF.
Customizable Dials	Click here to view the full specifications PDF.
My Menu Registration	• Up to six top-tier menu options and Custom Function settings can be registered. • Up to five My Menu tabs can be added. Click here to view the full specifications PDF.

Interface

USB Terminal	Equivalent to SuperSpeed USB (USB 3.1 Gen 1) • For PC communication • Terminal type: USB Type-C • Shared with terminal for in-camera charging with the USB Power Adapter PD-E1. • In-camera Charging: Equivalent to USB type-C (5 V/1.5 A), but use should be restricted to USB Power Adapter PD-E1.
HDMI Out Terminal	HDMI micro OUT terminal Type D (Resolution switches automatically) / CEC not compatible • Images can be displayed through the HDMI output and on screen at the same time. • Images will not be displayed unless [NTSC] or [PAL] is properly set according to the video system of the TV set.
Microphone terminal	3.5mm diameter stereo mini jack
Headphone terminal	Compatible with 3.5mm diameter stereo mini-plug

Power Source

Battery	Canon LP-E6NH battery pack (also compatible with LP-E6N and LP-E6 battery packs) • With the AC Adapter AC-E6N + DC Coupler DR-E6, AC power is possible. • With the USB Power Adapter PD-E1, in-camera charging of LP-E6NH is possible. The USB Power Adapter PD-E1 is not compatible with powering the camera.
Optional Battery Grip	Compatible with Canon Battery Grip BG-R10 (Accepts one or two LP-E6NH, LP-E6N, or LP-E6 battery packs)
Battery Check	Automatic battery check when the power switch is turned ON. Displayed in 5 levels in viewfinder, and on LCD screen. Battery info display in Set-up Menu: • Remaining capacity percentage • Shutter count, on current battery charge • Recharge performance (batterys ability to hold charge; displayed in 3 levels)
Start-up Time	Approx. 0.4 sec. • Based on CIPA testing standards.

Dimensions and Weight

Dimensions (W x H x D)	Approx. 5.45 x 3.87 x 3.48 in. / 138 x 98.4 x 88.4mm Based on CIPA standards.
Weight	Approx. 1.5 lbs. / 680g (including battery, SD memory card; without body cap) Approx. 1.3 lbs. / 598g (body only; without battery, card or body cap)

Operating Environment

Working Temperature Range	32-104° F / 0-+40° C

Working Conditions

Working Humidity	85% or less