Canon

EOS R1

Type	
Type	Digital interchangeable lens, mirrorless camera
Image Processor	DIGIC X (with DIGIC Accelerator co-processor)
Recording Media	(Two) CFexpress Type B card slots • compatible with CFexpress 2.0 and VPG400
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	Canon designed full-frame back-illuminated stacked CMOS sensor (compatible with Dual Pixel CMOS AF and Cross-type 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. 26.7 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, 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

RAW: RAW / C-RAW
JPEG / HEIF: L / M / S1 / S2
Movies:
• RAW
• XF-HEVC S YCC422 10bit
• XF-HEVC S YCC420 10bit
• XF-AVC S YCC422 10bit
• XF-AVC S YCC420 8bit

File Size

	Image Quality	File Size [Approx. MB]	Possible Shots [Approx.]*1	Maximum Burst [Approx.]* CFexpress Card*1
JPEG*2	L	8.3	37930	1000 or more
	M	4.4	71490	1000 or more
	S1	3.0	102820	1000 or more
	S2	1.8	170290	1000 or more
HEIF*3	L	8.4	37720	1000 or more
	M	4.9	64760	1000 or more
	S1	3.5	89510	1000 or more
	S2	2.1	147840	1000 or more
RAW	RAW	27.5	11530	1000 or more
	C-RAW	12.4	25520	1000 or more
RAW+JPEG*2	RAW + L	27.5 + 8.3	8840	1000 or more
	C-RAW + L	12.4 + 8.3	15250	1000 or more
RAW+HEIF*3	RAW + L	27.5 + 8.4	8230	260
	C-RAW + L	12.4 + 8.4	13520	560

* 1: Number of shots available and maximum burst apply to 325 GB cards conforming to Canon testing standards.
* 2: When [HDR shooting (PQ): Disable] is set.
* 3: When [HDR shooting (PQ): HDR PQ] is set.
* Maximum burst as measured under conditions conforming to Canon testing standards (One-Shot AF, High-speed continuous shooting +, JPEG/HEIF image quality: 8, ISO 100, Picture Style: Standard, and room temperature: 23°C / 73°F).
* File size, number of shots available, and maximum burst vary depending on shooting conditions (including cropping/aspect ratio, JPEG/HEIF image quality, subject, memory card brand, ISO speed, Picture Style, and Custom Functions).

File Numbering

The following file numbers can be set:
1. File numbering methods
   a. Continuous numbering
      • The numbering of captured images continues even after you replace the card.
   b. Auto reset
      • 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.
      * When manually resetting the file number, folders can also be renamed.

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]. • A Picture Style file can be registered to User Def. 1/2/3.
White Balance	
Settings	(1) Auto (Ambience priority/White priority) (2) Daylight (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. * 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 levels Magenta/green bias: ±9 levels • Shifted from the color temperatue of the current WB mode. • Blue/amber and magenta/green shift can be set at the same time. WB Bracketing available, up to ±3 levels Blue/amber or magenta/green, via Quick Control Dial
Viewfinder	
Type	OLED color electronic viewfinder; 0.5-inch, approx. 9.44 million dots
Coverage	Approx. 100% vertically and horizontally relative to the shooting image area (with image quality L, at approx. 25mm eyepoint).
Magnification / Angle of View	Approx. 0.90x / Approx. 41.4 degrees (with 50mm lens at infinity, -1 m^{-1})
Eye Point	Approx. 25mm (at -1 m^{-1} from the eyepiece lens end)
Dioptric Adjustment Range	Approx. -4.0 to + 2.0 m^{-1} (dpt)* *1: Dioptric adjustment lock mechanism

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 timer/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 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
Cross-type AF	Supported * Dual Pixel CMOS AF has been vertical-line detection only with previous models, but the EOS R1 can perform not only vertical-line detection but also horizontal-line detection by rotating the pupil division direction of the Gb pixels of the CMOS sensor by 90 degrees. * Cross-type AF functions under the conditions indicated by “Yes” in the table below during still photo shooting (not supported during movie recording). * Cross-type can be performed in the whole focusing area. * Cross-type does not function (vertical-line detection only) during movie recording, when using Preview AF, when using Focus guide, when the image flickers under fluorescent lighting, LED lighting, or other flickering light sources, and when operating the SA control ring of RF100mm F2.8 L MACRO IS USM.

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. 975 zones (39 x25)
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)
Focusing brightness range (still photo shooting)	EV –7.5 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 (movie recording)	4K 30p: EV – 5.5 to 21 Full HD 30p: EV – 5.5 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 • Whole area tracking OFF Spot AF • Whole area tracking OFF 1-point AF • Whole area tracking OFF Expand AF area: Above/below/left/right • Whole area tracking OFF Expand AF area: Around
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:** • Selects the eye closer to the camera (as detected from the angle of the face). • At the same distance from the camera, selects the eye closer to the center of the image. **Right Eye:** • Prioritizes the subject's right eye. **Left Eye:** • Prioritizes the subject's left eye.
Exposure Control	
Metering Modes	Real-time metering from CMOS image sensor (6144 [96x64] 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

Shooting Mode	Name
Fv	Flexible-priority AE
P	Program AE
Av	Aperture-priority AE
M	Manual exposure
Tv	Shutter-priority AE
BULB	Bulb exposure
C1/C2/C3	Custom shooting

ISO Speed Range

Manually Set

Normal	ISO 100–102400 (in 1/3- or 1-stop increments)
Expanded	L (equivalent to ISO 50), H1 (equivalent to ISO 204800) and H2 (equivalent to ISO 409600)

* When set to [Highlight tone priority], the available manual setting range is ISO 200–102400.
* Expanded ISO speeds are not available when [HDR shooting (PQ): HDR PQ] is set.

ISO Auto range settings in still photo shooting

Auto Range	ISO Speed
Minimum	ISO 100–51200 (in 1-stop increments)
Maximum	ISO 200–102400 (in 1-stop increments)

ISO Auto details in still photo shooting

No Flash	Using Flash	
	Compatible Lens	Incompatible Lens
ISO 100*1*2–102400*2	ISO 100*1*2–6400*2	ISO 100*1*2–1600*2
ISO 400*3	ISO 400*3	

*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

User-set	±3 stops in 1/3- or 1/2-stop increments
AEB	±3 stops in 1/3- or 1/2-stop increments

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].

(2) 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.

Shutter

Type

Electronically controlled focal-plane shutter
(1) Electronic first curtain
(2) Mechanical shutter
(3) Electronic shutter*

* In electronic shutter shooting, fast shutter speeds of 1/10000 sec. or faster are only available in Tv or M mode (up to 1/8000 sec. in P, Av, or Fv mode).

Shutter Speeds	Mechanical / 1st-curtain Electronic shutter: 1/8000th sec – 30 seconds, in 1/3 or ½-step increments Electronic shutter: 1/64000th sec – 30 seconds, in 1/3 or ½-step increments (1/16,000th possible, if user-set in Tv or M shooting modes)
X-sync Speed	Mechanical Shutter: 1/200 sec. Elec. 1st-curtain: 1/320 sec.
Shutter Release	Soft-touch electromagnetic release
Self Timer	10-sec. delay, 2-sec. delay, Continuous
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

Drive Modes	Operating Modes	Mechanical Shutter	Electronic 1st curtain	Electronic shutter
Single Shooting		Yes	Yes	Yes
High-speed Continuous Shooting + *1	**Mode A**	Approx. 12 shots/sec.*2,		Approx. 40 shots/sec
	Mode B	Approx. 9.2 shots/sec.*2		
	Mode C	Approx. 6.6 shots/sec.		
High-speed Continuous Shooting *1	**Mode A**	Approx. 5.5 shots/sec.*2	Approx. 7.0 shots/sec.*2	Approx. 20 shots/sec
	Mode B	Approx. 5.2 shots/sec.*2	Approx. 6.6 shots/sec.*2	
	Mode C	Approx. 3.5 shots/sec.	Approx. 4.3 shots/sec.	
Low-speed Continuous Shooting		Approx. 3.0 shots/sec.*2		Approx. 5 shots/sec
Self-timer: 10-sec / remote control		Yes		
Self-timer: 2-sec / remote control		Yes		
Self-timer: Continuous		Yes		

1. Continuous shooting speed is lower under certain shooting and measurement conditions: shutter speed, aperture value subject conditions, brightness, type of lens, timing when internal memory becomes full (temporarily disables shooting)

- Mechanical / electronic 1st curtain: use of flash, anti-flicker shooting: Enable, type of battery, battery level, temperature, use of a battery grip, use of WFT, use of built-in Wi-Fi.
- Electronic shutter: State of aperture in continuous shooting

* With Certain lenses, zooming during continuous shooting with electronic shutter may cause changes in exposure even at the same f/number.

2. Automatically switches among modes A (drive mode icon lit in green), B (drive mode icon lit in white), and C (drive mode icon flashing in white). Operating Mode is for reference only — automatically set by camera, is dependent on factors such as battery power level, battery type, and lens in use, and cannot be set by user.

* For flash shooting, values for AE, flash metering, and WB do not change after the first shot.

HDR Shooting

HDR Shooting (HDR PQ)

Disable / Enable

Still Photo HDR PQ

Recording format	Bit depth	Color sampling method	HDR specification
HEIF	10 bit	YCbCr 4:2:2	ITU-R BT.2100 (PQ)

Movie HDR PQ

Recording format	Bit depth	Color sampling method	HDR specification
mp4	10 bit	YCbCr 4:2:2	ITU-R BT.2100 (PQ)

Continuous HDR Shooting (still images)

1 shot only / Every shot

Video Shooting

Shooting Times

High-frame rate disabled	**100.00 fps or more**	**Maximum: 2 hr. 00 min. 00 sec.**
	59.94 fps or less	**Maximum: 6 hr. 00 min. 00 sec.**
High-frame rate enabled	**239.76 / 200.00 fps**	**Maximum: 45 min. 00 sec.**
	119.88 / 100.00 fps	**Maximum: 1 hr. 30 min. 00 sec.**

* Longest time available per recording.
* Except when recording stops from overheating or due to the power source used, errors, or other reasons.

File Format

Normal Movies

Canon Log	OFF		ON (Canon Log 3)
HDR PQ	**OFF**	**ON**	**OFF**
Container format	MP4		
Bit depth	8 bit	10 bit	
Compression	H.264 / MPEG-4 AVC	H.265 / HEVC	
Video signal recording range	Full range (0-255)	Full range (0-1023)	Full range (128-1020)
Color sampling method	YCbCr 4:2:0	YCbCr 4:2:2	
Standards compliance	Rec.ITU-R BT.709	Rec. ITU-R BT.2100	—
Color gamut	Rec.709	Rec.2020	Rec.709 / Rec.2020 / Cinema Gamut
Audio	• LPCM / 24 bit / 4CH • AAC / 16 bit / 2CH		

* When the main recording format is RAW, the format is LPCM / 24 bit / 4CH.
* When the main recording format is RAW with the [A Rec options: Main + Proxy] setting, the audio format can be selected for the proxy movie only.
* When the audio format of the main movie is AAC / 16 bit / 2CH, the audio format of the proxy movie is also AAC / 16 bit / 2CH.
* When [HDMI RAW output: On] is set, the HDMI output audio format is fixed to LPCM / 16bit / 2CH.

Estimated Recording time, Movie Bit Rate and File Size

RAW, 4K-DCI Fine / 4K-UHD Fine

Recording format	com-pression method/ RAW type	Frame Rate (fps)	Total Recording Time (approx.)			Video bit rate/(ap-prox.Mbps)	File Size (approx. MB/min.)
			64 GB	256 GB	1 TB		
RAW[1]	Standard RAW	59.94	3 min.	13 min.	51 min.	2600	18631
		50.00	3 min.	13 min.	51 min.	2600	18631
		29.97	4 min.	17 min.	1 hr. 6 min.	2600	14339
		25.00	5 min.	20 min.	1 hr. 19 min.	1670	11979
		24.00	5 min.	21 min.	1 hr. 23 min.	1600	11478
		23.98					
	Light RAW	59.94	4 min.	18 min.	1 hr. 13 min.	1800	12909
		50.00	5 min.	22 min.	1 hr. 28 min.	1500	10763
		29.97	9 min.	37 min.	2 hr. 27 min.	900	6472
		25.00	11 min.	45 min.	2 hr. 56 min.	750	5399
		24.00	11 min.	47 min.	3 hr. 3 min.	720	5184
		23.98					
XF-HEVC S YCC422 10-bit	Standard LGOP	59.94	37 min.	2 hr. 31 min.	9 hr. 51 min.	225	1612
		50.00					
		29.97	1 hr. 3 min.	4 hr. 12 min.	16 hr. 25 min.	135	968
		25.00					
		24.00					
		23.98					
XF-HEVC S YCC420 10-bit	Standard LGOP	59.94	56 min.	3 hr. 47 min.	14 hr. 47 min.	150	1075
		50.00					
		29.97	1 hr. 25 min.	5 hr. 40 min.	22 hr. 9 min.	100	718
		25.00					
		24.00					
		23.98					
XF-HEVC S YCC420 8-bit	Standard LGOP	59.94	56 min.	3 hr. 47 min.	14 hr. 47 min.	150	1075
		50.00					
		29.97	1 hr. 25 min.	5 hr. 40 min.	22 hr. 9 min.	100	718
		25.00					
		24.00					
		23.98					

1. Requires CFexpress 2.0 Type-B [400MB/sec. or more]

* Video bit rate indicates video only; audio and metadata are not included.
* When [Audio format: AAC / 16bit / 2CH] is set (when set to RAW, LPCM / 24bit / 4CH).
* When [Add News Metadata: Off] is set.
* Movie recording stops when the maximum recording time per movie is reached.
* When set to 4K-UHD, 24.00 fps is not available.

Estimated Recording Time, Continued.

H.265/HEVC (Canon Log: On or HDR PQ: On)

Recording format	com-pression method/ RAW type	Frame Rate (fps)	Total Recording Time (approx.)			Video bit rate/ (approx. Mbps)	File Size (approx. MB/min.)
			64 GB	256 GB	1 TB		
XF-AVC S YCC422 10-bit	High quality Intra	59.94[1]	7 min.	28 min.	1 hr. 51 min.	1200	8585
		50.00[1]	8 min.	34 min.	2 hr. 13 min.	1000	7155
		29.97	14 min.	56 min.	3 hr. 42 min.	600	4294
		25.00	17 min.	1 hr. 8 min.	4 hr. 26 min.	500	3579
		24.00	17 min.	1 hr. 11 min.	4 hr. 37 min.	480	3436
		23.98					
	Standard Intra	59.94[1]	9 min.	37 min.	2 hr. 28 min.	900	6440
		50.00	11 min.	45 min.	2 hr. 57 min.	750	5367
		29.97	18 min.	1 hr. 15 min.	4 hr. 56 min.	450	3221
		25.00	22 min.	1 hr. 30 min.	5 hr. 55 min.	375	2685
		24.00	23 min.	1 hr. 34 min.	6 hr. 10 min.	360	2577
		23.98					
	Light Intra	59.94	14 min.	56 min.	3 hr. 42 min.	600	4294
		50.00	17 min.	1 hr. 8 min.	4 hr. 26 min.	500	3579
		29.97	28 min.	1 hr. 53 min.	7 hr. 24 min.	300	2148
		25.00	34 min.	2 hr. 16 min.	8 hr. 52 min.	250	1791
		24.00	35 min.	2 hr. 22 min.	9 hr. 14 min.	240	1719
		23.98					
	Standard LGOP	59.94	34 min.	2 hr. 16 min.	8 hr. 52 min.	250	1791
		50.00					
		29.97	56 min.	3 hr. 47 min.	14 hr. 47 min.	150	1075
		25.00					
		24.00					
		23.98					

1. Requires CFexpress 2.0 Type-B [400MB/sec. or more]
* Video bit rate indicates video only; audio and metadata are not included.
* When [Audio format: AAC / 16bit / 2CH] is set.
* When [Add News Metadata: Off] is set.
* Movie recording stops when the maximum recording time per movie is reached.
* When set to 4K-UHD, 24.00 fps is not available.

Card Performance Requirements

4K-DCI Normal / 4K-UHD Normal

Recording format	com-pression method/ RAW type	Frame Rate (fps)	Total Recording Time (approx.)			Video bit rate/(ap-prox.Mbps)	File Size (approx. MB/min.)
			64 GB	256 GB	1 TB		
XF-HEVC S YCC422 10-bit	Standard LGOP	119.88	18 min.	1 hr. 15 min.	4 hr. 56 min.	450	3221
		100.00					
		59.94	37 min.	2 hr. 31 min.	9 hr. 51 min.	225	1612
		50.00					
		29.97	1 hr. 3 min.	4 hr. 12 min.	16 hr. 25 min.	135	968
		25.00					
		24.00					
		23.98					
XF-HEVC S YCC420 10-bit	Standard LGOP	119.88	28 min.	1 hr. 53 min.	7 hr. 24 min.	300	2148
		100.00					
		59.94	56 min.	3 hr. 47 min.	14 hr. 47 min.	150	1075
		50.00					
		29.97	1 hr. 25 min.	5 hr. 40 min.	22 hr. 9 min.	100	718
		25.00					
		24.00					
		23.98					
XF-HEVC S YCC420 8-bit	Standard LGOP	119.88	28 min.	1 hr. 53 min.	7 hr. 24 min.	300	2148
		100.00					
		59.94	56 min.	3 hr. 47 min.	14 hr. 47 min.	150	1075
		50.00					
		29.97	1 hr. 25 min.	5 hr. 40 min.	22 hr. 9 min.	100	718
		25.00					
		24.00					
		23.98					

* Video bit rate indicates video only; audio and metadata are not included.
* When [Audio format: AAC / 16bit / 2CH] is set.
* When [Add News Metadata: Off] is set.
* Movie recording stops when the maximum recording time per movie is reached.
* Same applies when [Movie cropping: Enable] is set.
* When set to 4K-UHD, 24.00 fps is not available.

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	3.2-inch (screen aspect ratio of 3:2)
Dots	Approx. 2.1 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

Display Format

Item	Still Photo	Movie
Magnify zoom display	1.5x–10x (15 levels)	-
AF point display	Yes	-
Grid display	Off / 3×3 / 6×4 / 3×3+diag	-
Zebra display	-	Yes
False Color display	-	Yes
Rating	OFF / 1 to 5 Stars Select images / Select range / All images in folder / All images on card / All found images	
Image Search	Search conditions Rating / Date / Folder / Protection / Type of file	
Protect	Select images / Select range / All images in folder / Unprotect all images in folder / All images on card / Unprotect all images on card / All found images	
Shooting information display	No information display / Basic information display / Detailed shooting information display	

Highlight Alert	White areas without image data blink in single-image display.
Histogram	Brightness / 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

<table>
<tr><td>Protection</td><td>(1) Single image (select image)
(2) Select range
(3) All images in a 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)</td></tr>
<tr><td>Erase</td><td>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)</td></tr>
<tr><td colspan="2">Direct Printing</td></tr>
<tr><td>Compatible Printers</td><td>Direct printing from camera not supported</td></tr>
<tr><td colspan="2">DPOF: Digital Print Order Format</td></tr>
<tr><td>DPOF</td><td>Compliant to DPOF Version 1.1</td></tr>
<tr><td colspan="2">Wi-Fi®</td></tr>
<tr><td>Standards Compliance</td><td>IEEE 802.11b/g/n/a/ac/ax</td></tr>
<tr><td>Transmission Method</td><td>DS-SS modulation (IEEE 802.11b)
OFDM modulation (IEEE 802.11g/n/a/ac/ax)
OFDMA modulation (IEEE 802.11ax)</td></tr>
<tr><td>Transition Frequency (Central Frequency)</td><td>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 channels
6.0 GHz band
Frequency: 5955 to 7095 MHz
Channels: 1 to 229 channels</td></tr>
<tr><td>Connection Method</td><td>(1) Camera access point mode
(2) Infrastructure mode</td></tr>
<tr><td>Security</td><td>2.4 GHz band / 5 GHz band
<table>
<tr><th rowspan="2">Connection Method</th><th rowspan="2">Authentication</th><th colspan="2">Encryption</th></tr>
<tr><th>Encryption</th><th>Key Format and Length</th></tr>
<tr><td rowspan="2">Camera Access Point</td><td>WPA2 / WPA3-Personal</td><td>AES</td><td>• ASCII 8 characters</td></tr>
<tr><td>Open</td><td colspan="2">Disable</td></tr>
<tr><td rowspan="5">Infrastructure</td><td>Open</td><td colspan="2">Disable</td></tr>
<tr><td>Enhanced open</td><td>AES</td><td>• ASCII 8 characters</td></tr>
<tr><td>WPA / WPA2 / WPA3-Personal</td><td>AES</td><td>1–127 characters</td></tr>
<tr><td>WPA / WPA2 / WPA3-Enterprise</td><td>AES</td><td>—</td></tr>
<tr><td>WPA3-Enterprise 192 bit</td><td>AES</td><td>—</td></tr>
</table>
6 GHz band
<table>
<tr><th rowspan="2">Connection Method</th><th rowspan="2">Authentication</th><th colspan="2">Encryption</th></tr>
<tr><th>Encryption</th><th>Key Format and Length</th></tr>
<tr><td rowspan="4">Infrastructure</td><td>Enhanced open</td><td>AES</td><td>—</td></tr>
<tr><td>WPA3-Personal</td><td>AES</td><td>1–127 characters</td></tr>
<tr><td>WPA3-Enterprise</td><td>AES</td><td>—</td></tr>
<tr><td>WPA3-Enterprise 192 bit</td><td>AES</td><td>—</td></tr>
</table></td></tr>
</table>

<table>
<tr><td>Communication with a Smartphone</td><td>• 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)</td></tr>
<tr><td>Remote Operation Using EOS Utility</td><td>The camera can be controlled via Wi-Fi® or USB, with Canon EOS Utility software installed in a compatible Mac or Windows computer.</td></tr>
<tr><td>Print from Wi-Fi® Printers</td><td>Not supported.</td></tr>
<tr><td>Send Images to a Web Service</td><td>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.</td></tr>
<tr><td colspan="2">Bluetooth®</td></tr>
<tr><td>Standards Compliance</td><td>Bluetooth Specification Version 5.3 compliant (Bluetooth Low Energy technology)</td></tr>
<tr><td>Transmission Method</td><td>GFSK modulation</td></tr>
<tr><td>Bluetooth Pairing</td><td>Smartphone — up to 25 devices; BR-E1 remote controller — 1 unit</td></tr>
<tr><td colspan="2">Customization</td></tr>
<tr><td>Available Functions</td><td>Dial direction during Tv/Av; Control ring rotation direction; Customize buttons; Customize dials</td></tr>
<tr><td colspan="2">Video Calls / Streaming</td></tr>
<tr><td>USB Video Class (UVC)</td><td>Available
* The camera is accessible to software (such as Zoom™, MS Teams™, Skype™, etc.) on a computer once connected via USB.</td></tr>
<tr><td>Custom Controls</td><td>Customizable Buttons<table><tr><td>Shutter button</td></tr><tr><td>Movie button</td></tr><tr><td>AF-ON button</td></tr><tr><td>AE lock button</td></tr><tr><td>AF point button</td></tr><tr><td>Depth of field preview button</td></tr><tr><td>Lens AF stop button</td></tr><tr><td>Multi-function button</td></tr><tr><td>Set button</td></tr><tr><td>Multi-controller</td></tr><tr><td>Lens function button</td></tr><tr><td>Speedlite menu direct button</td></tr></table></td></tr>
<tr><td>Customizable Dials</td><td><table><tr><td>Main dial</td></tr><tr><td>Quick control dial 1 & 2</td></tr><tr><td>Lens Control ring</td></tr></table></td></tr>
</table>

<table>
<tr><td>My Menu Registration</td><td>• Up to six top-tier menu items and Custom Functions can be registered.
• Up to five My Menu tabs can be added.<table><tr><td>My Menu tab overall operations</td><td>• Adding a tab
• Deleting tabs in a batch
• Deleting all tab items
• Setting the menu display</td></tr><tr><td>My Menu tab detailed operations</td><td>• Selecting a registered item
• Sorting registered items
• Deleting selected registered items
• Deleting registered items in a batch
• Deleting tabs
• Changing a tab name (16 ASCII characters)</td></tr></table></td></tr>
<tr><td colspan="2">Interface</td></tr>
<tr><td>USB Terminal</td><td>Equivalent to SuperSpeed Plus USB (USB 3.2 Gen 2)
• For PC communication; video calls/streaming
• Terminal type: USB Type-C
• Shared with terminal for in-camera charging with USB Power Adapter PD-E1.</td></tr>
<tr><td>HDMI Out Terminal</td><td>HDMI output terminal (Type A)
• HDMI CEC not supported
• Images may not be displayed unless [For NTSC] or [For PAL] is set correctly for the TV video system.</td></tr>
<tr><td>Clean HDMI Output</td><td>Provided</td></tr>
<tr><td>Microphone terminal</td><td>3.5mm diameter stereo mini jack</td></tr>
<tr><td>Headphone terminal</td><td>Compatible with 3.5mm diameter stereo mini-plug</td></tr>
<tr><td colspan="2">Power Source</td></tr>
<tr><td>Battery</td><td>LP-E19
* LP-E4N / LP-E4 cannot be used. Unauthenticated batteries can also be used, but safety cannot be guaranteed.</td></tr>
<tr><td>Optional Battery Grip</td><td>Not supported</td></tr>
<tr><td>Battery Check</td><td>Automatic battery check with 6-level display when the power switch is turned ON.
Displayed in 6 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 (battery's ability to hold charge; displayed in 3 levels)</td></tr>
<tr><td>Start-up Time</td><td>Approx. 0.4 sec.
• Based on CIPA testing standards.</td></tr>
<tr><td colspan="2">Dimensions and Weight</td></tr>
<tr><td>Dimensions
(W x H x D)</td><td>Approx. 6.2 x 5.89 x 3.44 in. / 157.6 x 149.5 x 87.3mm
• Based on CIPA standards.</td></tr>
<tr><td>Weight</td><td>Approx. 2.5 lbs. / 1115g (including battery and memory card)
Approx. 2.0 lbs. / 920g (body only; without battery, card or body cap)</td></tr>
<tr><td colspan="2">Operating Environment</td></tr>
<tr><td>Working Temperature Range</td><td>32–113°F / 0–45°C</td></tr>
<tr><td>Working Humidity Range</td><td>85% or less</td></tr>
</table>