Canon

EOS R8

Type	
Type	Digital interchangeable lens, mirrorless camera
Image Processor	DIGIC X
Recording Media	(One) SD card slot • 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. • Auto cleaning: At power off / Enable / Disable * Automatically performs the sensor cleaning during Power OFF/ON. • Clean now * Performs cleaning immediately. After the cleaning ends, the camera automatically restarts (Power OFF to ON). (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 RAW burst mode, multiple-exposure shooting, or HDR mode, or when Multi Shot Noise Reduction or the interval timor or digital tele-converter is set. (3) Manual cleaning (by hand) not supported

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 (.JPG), HEIF (.HIF), RAW, C-RAW, Dual Pixel RAW, RAW burst (.CR3)
Movies: ALL-I (Time-lapse video only), IPB (.MP4)

File Size

	Image Quality	File Size [Approx. MB]	Available Shots [Approx.]*1
JPEG*2	L (fine)	8.2	3700
	L (Normal)	4.4	6820
	M (fine)	4.6	6630
	M (Normal)	2.6	11450
	S1 (Fine)	3.1	9820
	S1 (Normal)	1.9	12840
	S2	1.8	16290
HEIF*3	L (fine)	8.3	3600
	L (Normal)	6.3	4690
	M (fine)	5.0	5830
	M (Normal)	3.9	7400
	S1 (Fine)	3.5	8390
	S1 (Normal)	2.8	10270
	S2	1.8	14250
RAW*2	RAW	26.1	1170
	C-RAW	13.2	2350
RAW+JPEG*2	RAW + L (fine)	26.1 + 8.2	890
	C-RAW + L (fine)	13.2 + 8.2	1430
RAW+HEIF*3	RAW + L (fine)	28.6 + 8.3	820
	C-RAW + L (fine)	15.8 + 8.3	1260

*1: Number of shots using a 32 GB card that conforms to Canon testing standards.
*2: When set to [HDR shooting (HDR PQ): Disable].
*3: When set to [HDR shooting (HDR PQ): Enable].
* File sizes are determined based on Canon testing standards.

<table>
<tr><td>Maximum Burst</td><td>
<table>
<tr><th rowspan="2"></th><th rowspan="2">Image Quality</th><th colspan="2">Electronic 1st-curtain (approx. 6.0 shots/sec.)</th><th colspan="2">Electronic shutter (approx. 40 shots/sec.)</th></tr>
<tr><th>Standard card*1</th><th>High-speed card*2</th><th>Standard card*1</th><th>High-speed card*2</th></tr>
<tr><td rowspan="4">JPEG*3</td><td>L (fine)</td><td>1000 or more</td><td>1000 or more</td><td>120</td><td>120</td></tr>
<tr><td>M (fine)</td><td>1000 or more</td><td>1000 or more</td><td>110</td><td>120</td></tr>
<tr><td>S1 (Fine)</td><td>1000 or more</td><td>1000 or more</td><td>110</td><td>120</td></tr>
<tr><td>S2</td><td>1000 or more</td><td>1000 or more</td><td>110</td><td>120</td></tr>
<tr><td rowspan="4">HEIF*4</td><td>L (fine)</td><td>1000 or more</td><td>1000 or more</td><td>120</td><td>120</td></tr>
<tr><td>M (fine)</td><td>1000 or more</td><td>1000 or more</td><td>120</td><td>120</td></tr>
<tr><td>S1 (Fine)</td><td>1000 or more</td><td>1000 or more</td><td>120</td><td>120</td></tr>
<tr><td>S2</td><td>1000 or more</td><td>1000 or more</td><td>120</td><td>120</td></tr>
<tr><td rowspan="2">RAW*3</td><td>RAW</td><td>85</td><td>1000 or more</td><td>51</td><td>56</td></tr>
<tr><td>C-RAW</td><td>1000 or more</td><td>1000 or more</td><td>98</td><td>100</td></tr>
<tr><td rowspan="2">RAW+JPEG*3</td><td>RAW + L (fine)</td><td>70</td><td>570</td><td>50</td><td>54</td></tr>
<tr><td>C-RAW + L (fine)</td><td>180</td><td>1000 or more</td><td>89</td><td>100</td></tr>
<tr><td rowspan="2">RAW+HEIF*4</td><td>RAW + L (fine)</td><td>69</td><td>87</td><td>35</td><td>42</td></tr>
<tr><td>C-RAW + L (fine)</td><td>140</td><td>170</td><td>89</td><td>100</td></tr>
</table>
*1: Number of shots using a 32 GB UHS-I 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].
* Maximum burst as measured under conditions conforming to Canon testing standards (High-speed continuous shooting + in One-Shot AF mode, ISO 100, and Standard Picture Style).
* Number of shots available varies depending on shooting conditions (such as cropping/aspect ratio, subject, memory card brand, ISO speed, Picture Style, and Custom Function).
</td></tr>
<tr><td>File Numbering</td><td>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.
* When manually resetting the file number, folders can also be renamed.</td></tr>
<tr><td>RAW + JPEG / HEIF Simultaneous Recording</td><td>Simultaneous recording of any combination of RAW/C-RAW and JPEG/HEIF image-recording quality is supported.</td></tr>
<tr><td>Color Space</td><td>Selectable between sRGB and Adobe RGB</td></tr>
</table>

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) 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. *2: With an EX / EL-series Speedlite having the color temperature information transmission feature, the color temperature setting changes to match the color temperature when the flash is fired. Set to approx. 6000 K if the flash unit does not have the color temperature communication feature.
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; 0.39-inch, approx. 2.36 million dots
Coverage	Approx. 100% (at JPEG Large image quality, 3:2 aspect ratio, approx. 22 mm eyepoint)
Magnification / Angle of View	Approx. 0.70× / 33.0° (3:2 aspect ratio, with 50mm lens at infinity, –1 m–1)
Eye Point	Approx. 22 mm (at –1 m^{-1} from eyepiece lens end)
Dioptric Adjustment Range	Approx. –4.0 to +1.0 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 (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)
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 (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:** • 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. **Disable**
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	Still Photo Shooting: EV -3 – 20 (at 73°F/23°C, ISO 100) Movie Recording: EV –1 to 20
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

Normal	ISO 100–102400 (in 1/3- or 1-stop increments)
Expanded	L: equivalent to ISO 50, H: 204800

- 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

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

Shooting mode	No Flash	Using Flash	
		Compatible Lens	Incompatible Lens
Auto / Hybrid Auto	ISO 100–25600	ISO 100–6400	ISO 100–1600
Special Scenes	Varies by shooting mode		
Creative Filters	Varies by shooting mode		
Fv / P / Tv / Av / M	ISO 100*1*2–102400*2	ISO 100*1*2–6400*2	ISO 100*1*2–1600*2
B	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) Electronic shutter
* Not equipped with a mechanical first curtain.
* When set to [Electronic], the camera makes no mechanical shutter sound. (An electronic shutter sound can be configured in [Beep] and [Volume: Shutter volume]). Note that the camera may make sounds other than the shutter release sound, such as sounds for aperture adjustment or the lens focus drive, or beeps. Moreover, using long exposure noise reduction with shutter speeds of 1 sec. or longer involves a mechanical second-curtain shutter, which produces a mechanical sound.
* Bands of light may be displayed and captured images may be affected by light and dark banding when shooting under fluorescent lighting or other flickering light sources with the camera set to [Anti-flicker shoot.: Disable].

Shutter Speeds

Electronic 1st-curtain shutter:
1/4000th sec – 30 seconds, in 1/3 or ½-step increments
Electronic shutter:
1/8000th 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

Elec. 1st-curtain: 1/200 sec.

Shutter Release

Soft-touch electromagnetic release

Self Timer

10-sec. delay, 2-sec. delay, Continuous

Image Stabilization (IS mode)

Image Stabilization

On / Off
• On IS lenses without an Image Stabilizer switch, lens IS is activated and deactivated in conjunction with the camera's IS mode setting.

Lens and camera settigns and operation

Lens setting			Camera setting		Actual operation	
Lens	IS switch		IS mode	Movie digital IS	Lens optical IS	Movie Digital IS
	Inclusion	Status				
IS Lens	Provided	ON	Not displayed	Off	ON	OFF
				On / Enhanced	ON	ON*
		OFF		Off	OFF	OFF
				On / Enhanced	OFF	OFF
	Not provided		On	Off	ON	OFF
				On / Enhanced	ON	ON*
			Off	Off	OFF	OFF
				On / Enhanced	OFF	OFF
Non-IS Lens	Not provided		Not displayed	Off	OFF	OFF
				On / Enhanced	OFF	ON*

* Only during movie recording (OFF during still photo shooting)

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	Electronic 1st curtain	Electronic shutter
Single Shooting		Yes	Yes
High-speed Continuous Shooting + *1	One-Shot AF / Servo AF	6.0*2,3	40*3
High-speed Continuous Shooting *1	One-Shot AF / Servo AF	6.0*2,3	20*3
Low-speed Continuous Shooting	One-Shot AF / Servo AF	3.0	5.0
Self-timer	10 sec.	Yes	Yes
	2 sec.	Yes	Yes
	Continuous shooting	Yes	Yes

*1: Not available when set to [Dual Pixel RAW: Enable] (low-speed continuous shooting is used).

*2: With electronic first-curtain, continuous shooting speed is the same for Highspeed continuous + and High-speed continuous shooting.

*3: Slower maximum continuous shooting speed when set to Servo AF with lenses other than those in the lens list attached. For details on lenses that support the indicated continuous shooting speed, refer to the separate lens list.

* With electronic first-curtain, maximum continuous shooting speed is (or may be) reduced in flash photography, anti-flicker shooting, or Dual Pixel RAW shooting.

* With certain lenses, zooming during continuous shooting with electronic shutter may cause changes in exposure even at the same f/number. For detail on relevant lenses, refer to the separate lens list (and note that even with zoom lenses not listed, sudden zooming may cause flickering or changes in exposure).

HDR Shooting

HDR Shooting (HDR PQ)

Disable / Enable
* Can be used in conjunction with Auto Lighting Optimizer.

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)

HDR Mode

Off / Moving sub. / Dynamic range
* [Dynamic range]: For each shot, three images are captured consecutively at different exposures (standard exposure, underexposure, and overexposure).
* [Moving sub.]: Output of a wide gradation without causing motion blur due to image composition by one exposure is possible.
* [Moving sub.]: Minimum ISO speed is ISO 800.
* When [HDR mode] is set, [Picture Style] options are limited to [Standard] and [Monochrome], and maximum shutter speed is 1/8000 sec.
* [Moving sub.]: [Electronic] shutter mode may increase subject distortion (due to rolling shutter).
* Shooting JPEG or HEIF images is supported.
* Can be set in conjunction with HDR shooting (HDR PQ), which enables shooting with a wide dynamic range ([Dynamic range]: up to approx. 3000 nits; [Moving sub.]: up to approx. 3000 nits).

Continuous HDR Shooting (still images)

1 shot only / Every shot
* Not available when set to [Moving sub.].

Video Shooting

Shooting Times

Resolution and Frame Rate	Approx. Continuous Shooting Time*1,2,3
4K UHD 59.94 fps	30 min.
4K UHD 29.97 fps	2 hr. 00 min.
Full HD 29.97 fps	2 hr. 00 min.
Full HD 179.82 / 150.00 fps	20 min.
Full HD 119.88 / 100.00 fps	30 min.

*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

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	**IPB (Standard)***	AAC / Linear PCM		
	IPB (Light)	AAC		

* 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)

Video Recording Size			Total Recording Time (approx.)			Bit Rate/File Size (approx.)
			32 GB	128 GB	512 GB	
4K UHD 4K UHD cropped	59.94 fps 50.00 fps	IPB (Standard)	18 min.	1 hr. 14 min.	4 hr.56 min.	230 Mbps 1647 MB/min.
		IPB (Light)	35 min.	2 hr. 21 min.	9 hr. 27 min.	120 Mbps 860 MB/min.
	29.97 fps 25.00 fps 23.98 fps	IPB (Standard)	35 min.	2 hr. 21 min.	9 hr. 27 min.	120 Mbps 860 MB/min.
		IPB (Light)	1 hr. 10 min.	4 hr. 43 min.	18 hr. 52 min.	60 Mbps 431 MB/min.
4K UHD (Time-lapse movie)	29.97 fps 25.00 fps	ALL-I	9 min.	36 min.	2 hr.25 min.	470 Mbps 3362 MB/min.
Full UHD (High Frame Rate movie)	172.82 fps 150.00 fps	IPB (Standard)	23 min.	1 hr.34 min.	6 hr.19 min.	180 Mbps 1287 MB/min
		IPB (Light)	40 min.	2 hr.42 min.	10 hr.50 min.	105 Mbps 751 MB/min
	119.88 fps 100.00 fps	IPB (Standard)	35 min.	2 hr. 22 min.	9 hr. 28 min.	120 Mbps 858 MB/min
		IPB (Light)	1 hr. 0 min.	4 hr. 3 min.	16 hr. 15 min.	70 Mbps 501 MB/min
Full HD Full HD cropped	59.94 fps 50.00 fps	IPB (Standard)	1 hr. 10 min.	4 hr. 43 min.	18 hr. 52 min.	60 Mbps 431 MB/min.
		IPB (Light)	2 hr. 0 min.	8 hr. 3 min.	32 hr. 15 min.	35 Mbps 252 MB/min.
	29.97 fps 25.00 fps 23.98 fps	IPB (Standard)	2 hr. 20 min.	9 hr. 23 min.	37 hr. 35 min.	30 Mbps 216 MB/min.
		IPB (Light)	5 hr. 47 min.	23 hr. 11 min.	92 hr. 47 min.	12 Mbps 88 MB/min.
Full HD (Time-lapse movie)	29.97 fps 25.00 fps	ALL-I	47 min.	3 hr. 9 min.	12 hr. 38 min.	90 Mbps 644 MB/min.

* 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)

Video Recording Size			Total Recording Time (approx.)			Bit Rate/File Size (approx.)
			32 GB	128 GB	512 GB	
4K UHD 4K UHD cropped	59.94 fps 50.00 fps	IPB (Standard)	12 min.	50 min.	3 hr. 20 min..	340 Mbps 2434 MB/min.
		IPB (Light)	25 min.	1 hr. 40 min.	6 hr. 40 min.	170 Mbps 1218 MB/min.
	29.97 fps 25.00 fps 23.98 fps	IPB (Standard)	25 min.	1 hr. 40 min.	6 hr. 40 min.	170 Mbps 1218 MB/min.
		IPB (Light)	50 min.	3 hr. 20 min.	13 hr. 20 min.	85 Mbps 610 MB/min.
4K UHD (Time-lapse movie)	29.97 fps 25.00 fps	ALL-I	9 min.	36 min.	2 hr.25 min.	470 Mbps 3362 MB/min.
Full UHD (High Frame Rate movie)	172.82 fps 150.00 fps	IPB (Standard)	15 min.	1 hr. 3 min.	4 hr. 12 min..	270 Mbps 1931 MB/min
		IPB (Light)	28 min.	1 hr. 53 min.	7 hr. 35 min.	150 Mbps 1073 MB/min
	119.88 fps 100.00 fps	IPB (Standard)	23 min.	1 hr. 34 min.	6 hr. 19 min.	180 Mbps 1287 MB/min
		IPB (Light)	42 min.	2 hr. 50 min.	11 hr. 22 min.	100 Mbps 715 MB/min
Full HD Full HD cropped	59.94 fps 50.00 fps	IPB (Standard)	47 min.	3 hr. 9 min.	12 hr. 36 min.	90 Mbps 646 MB/min.
		IPB (Light)	1 hr. 24 min.	5 hr. 39 min.	22 hr. 38 min.	50 Mbps 360 MB/min.
	29.97 fps 25.00 fps 23.98 fps	IPB (Standard)	1 hr. 34 min.	6 hr. 17 min.	25 hr. 8 min.	45 Mbps 324 MB/min.
		IPB (Light)	2 hr. 30 min.	10 hr. 3 min.	40 hr. 15 min.	28 Mbps 202 MB/min.
Full HD (Time-lapse movie)	29.97 fps 25.00 fps	ALL-I	31 min.	2 hr. 6 min.	8 hr. 25 min.	135 Mbps 966 MB/min.

* 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)

<table>
<tr><td>Card Performance Requirements</td><td>
<table>
<tr><th colspan="3">Movie Recording Size</th><th colspan="2">SD Card</th></tr>
<tr><th>Resolution</th><th>Frame rate (fps)</th><th>Compression Method</th><th>H.264/ MPEG-4 AVC (Canon Log: OFF, HDR PQ: OFF)</th><th>H.264/ MPEG-4 AVC (Canon Log: ON, HDR PQ: ON)</th></tr>
<tr><td rowspan="4">4K UHD
4K UHD Cropped</td><td rowspan="2">59.94 fps
50.00 fps</td><td>IPB (Standard)</td><td>UHS Speed Class 3 or higher</td><td>Video Speed Class V60 or higher</td></tr>
<tr><td>IPB (Light)</td><td colspan="2">UHS Speed Class 3 or higher</td></tr>
<tr><td rowspan="2">29.97 fps
25.00 fps
23.98 fps</td><td>IPB (Standard)</td><td colspan="2">UHS Speed Class 3 or higher</td></tr>
<tr><td>IPB (Light)</td><td>SD Speed Class 10 or higher</td><td>UHS Speed Class 3 or higher</td></tr>
<tr><td>4K UHD (Time-lapse movie)</td><td>29.97 fps
25.00 fps</td><td>ALL-I</td><td colspan="2">Read speed of 60 MB/sec. or higher</td></tr>
<tr><td rowspan="4">Full HD High Frame Rate movies</td><td rowspan="2">179.82 fps
150.00 fps</td><td>IPB (Standard)</td><td>UHS Speed Class 3 or higher</td><td>Video Speed Class V60 or higher</td></tr>
<tr><td>IPB (Light)</td><td>UHS Speed Class 3 or higher</td><td>UHS Speed Class 3 or higher</td></tr>
<tr><td rowspan="2">119.88 fps
100.00 fps</td><td>IPB (Standard)</td><td colspan="2">UHS Speed Class 3 or higher</td></tr>
<tr><td>IPB (Light)</td><td>SD Speed Class 10 or higher</td><td>UHS Speed Class 3 or higher</td></tr>
<tr><td rowspan="4">Full HD
Full HD cropped</td><td rowspan="2">59.94 fps
50.00 fps</td><td>IPB (Standard)</td><td>SD Speed Class 10 or higher</td><td>UHS Speed Class 3 or higher</td></tr>
<tr><td>IPB (Light)</td><td>SD Speed Class 6 or higher</td><td>SD Speed Class 10 or higher</td></tr>
<tr><td rowspan="2">29.97 fps
25.00 fps
23.98 fps</td><td>IPB (Standard)</td><td colspan="2">SD Speed Class 6 or higher</td></tr>
<tr><td>IPB (Light)</td><td colspan="2">SD Speed Class 4 or higher</td></tr>
<tr><td>Full HD (Time-lapse movie)</td><td>29.97 fps
25.00 fps</td><td>ALL-I</td><td colspan="2">Read speed of 30 MB/s or higher</td></tr>
</table>
</td></tr>
<tr><td>Video AF</td><td>Dual Pixel CMOS AF; Movie Servo AF available in AF Menu</td></tr>
<tr><td>Exposure Compensation</td><td>±3 stops in 1/3- or 1/2-stop increments</td></tr>
<tr><td>Time Code</td><td>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)</td></tr>
<tr><td>Movie Pre-recording (On/Off)</td><td>3 or 5 seconds; user-selectable
* Pre-recording does not apply to High Frame Rate or time-lapse movie recording.</td></tr>
<tr><td>Time-lapse Movie Setting</td><td>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)</td></tr>
<tr><td>Time-lapse Playback Frame Rate</td><td>29.97 (set to NTSC); 25.00fps (set to PAL)</td></tr>
<tr><td colspan="2">LCD Screen</td></tr>
<tr><td>Type</td><td>TFT color, liquid-crystal monitor</td></tr>
<tr><td>Monitor Size</td><td>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)</td></tr>
<tr><td>Dots</td><td>Approx. 1.62 million dots</td></tr>
<tr><td>Coverage</td><td>Approx. 100% vertically/horizontally</td></tr>
<tr><td>Brightness Control</td><td>Manually adjustable to one of seven brightness levels</td></tr>
<tr><td>Touch-screen Operation</td><td>Supported for AF Point selection; Touch AF; Touch Shutter; Menu selection; Quick Control Menu; Magnified View; Volume Touch Sounds: 0 (silent) to 5</td></tr>
</table>

<table>
<tr><td>Coating</td><td>Anti-smudge coating not provided.
Anti-reflection coating not provided.</td></tr>
<tr><td>Interface Languages</td><td>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)</td></tr>
<tr><td colspan="2">Playback</td></tr>
<tr><td>Display Format</td><td>
<table>
<tr><th>Item</th><th>Still Photo</th><th>Movie</th></tr>
<tr><td>Magnify zoom display</td><td>1.5×–10× (15 levels)</td><td>-</td></tr>
<tr><td>AF point display</td><td>Yes</td><td>-</td></tr>
<tr><td>Grid display</td><td>Off / 3×3 / 6×4 / 3×3+diag</td><td>-</td></tr>
<tr><td>Zebra display</td><td>-</td><td>Yes</td></tr>
<tr><td>False Color display</td><td>-</td><td>Yes</td></tr>
<tr><td>Rating</td><td colspan="2">OFF / 1 to 5 Stars
Select images / Select range / All images in folder / All images on card / All found images</td></tr>
<tr><td>Image Search</td><td colspan="2">Search conditions
Rating / Date / Folder / Protection / Type of file</td></tr>
<tr><td>Protect</td><td colspan="2">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</td></tr>
<tr><td>Shooting information display</td><td colspan="2">No information display / Basic information display / Detailed shooting information display</td></tr>
</table>
</td></tr>
<tr><td>Highlight Alert</td><td>White areas without image data blink in single-image display.</td></tr>
<tr><td>Histogram</td><td>Brightness / RGB</td></tr>
<tr><td colspan="2">Quick Control Function</td></tr>
<tr><td>Function</td><td>The Quick Control screen can be accessed by pressing the Quick Control button during shooting, recording, or playback.</td></tr>
<tr><td>Quick Control Screen</td><td>Users can customize setting items shown on the Quick Control screen.
• Items shown: Up to 11
• Edit layout / Reset settings / Clear all items
* Separate Quick Control screens can be set up for use in still photo shooting and movie recording. (Users can select and rearrange the items shown.)
* Customizable from the [Customize Quick Controls] menu item or by pressing and holding the button with the Quick Control screen displayed.</td></tr>
<tr><td colspan="2">Image Protection and Erase</td></tr>
<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>
</table>

Direct Printing

Compatible Printers	Direct printing from camera not supported

DPOF: Digital Print Order Format

DPOF	Compliant to DPOF Version 1.1

Wi-Fi®

Supporting Standards	Equivalent to IEEE 802.11b/g/n Standards
Transmission Method	DS-SS modulation (IEEE 802.11b) OFDM modulation (IEEE 802.11g/n)
Transition Frequency (Central Frequency)	**2.4 GHz band** Frequency: 2412 to 2462 MHz Channels: 1 to 11 channels **5.0 GHz band** Not supported
Connection Method	(1) Camera access point mode (2) Infrastructure mode
Security	See table below
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.

Security

Connection Method	Authentication	Encryption	
		Encryption	Key Format and Length
Camera Access Point	WPA2 / WPA3-Personal	AES	• ASCII 8 characters
	Open	Disable	
Infrastructure	Open	WEP	• Hexadecimal 10 digits • Hexadecimal 26 digits • ASCII 5 characters • ASCII 13 characters
		Disable	
	Shared key	WEP	Same as WEP above
	WPA / WPA2 / WPA3-Personal	TKIP AES	1–127 characters
	WPA / WPA2 / WPA3-Enterprise		—

Bluetooth®

Standards Compliance	Bluetooth Specification Version 4.2 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

<table>
<tr><td>Customize Buttons</td><td>Functions can be assigned to the following camera controls.
• Shutter button (half-press)
• Movie shooting button
• Multi-function button
• AF-ON button
• AE Lock button
• AF point button
• Up key
• Left key
• Right key
• Down key
• SET button
• Lens function button
• Speedlite menu direct button</td></tr>
<tr><td>Customizable Dials</td><td>Functions can be assigned to the following camera controls.
• Main dial
• Quick control dial
• Control ring</td></tr>
<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
• Rename tab (16 ASCII characters)</td></tr></table></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 colspan="2">Interface</td></tr>
<tr><td>USB Terminal</td><td>Equivalent to SuperSpeed Plus USB (USB 3.2 Gen 2)
• For PC communication
• 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 micro OUT terminal (Type D)
* Supports 4K 60p output, and (to HDR TVs) HDR PQ video output.
* 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>
</table>

Power Source	
Battery	Canon LP-E17 battery pack • With the AC Adapter AC-E6N + DC Coupler DR-E18, AC power is possible (AC Adapter Kit ACK-E18 can also be used). • USB Power Adapter PD-E1 supports in-camera charging of Battery Pack LP-E17 when the camera is turned off and can supply power when the camera is turned on.
Optional Battery Grip	Not supported
Battery Check	Automatic battery check with 4-level display when the power switch is turned ON. * Can be checked on the screen and in the viewfinder.
Start-up Time	Approx. 0.4 sec. • Based on CIPA testing standards.
Dimensions and Weight	
Dimensions (W x H x D)	Approx. 5.22 x 3.39 x 2.76 in. / 132.5 x 86.1 x 70.0mm • Based on CIPA standards.
Weight	Approx. 1.01 lbs. / 461g (including battery, SD memory card; without body cap) Approx. 0.91 lbs. / 414g (body only; without battery, card or body cap)
Operating Environment	
Working Temperature Range	32–104°F / 0–40°C
Working Humidity Range	85% or less

RF24-50mm F4.5-6.3 IS STM

Specifications

Lens	
Focal Length	24-50mm
Maximum and Minimum Aperture	f/4.5 - f/6.3
Lens Mount Type	RF Mount
Compatible Cameras	Canon EOS R-series, full-frame and APS-C (focal length equivelant to approx.38-80mm when used on an APS-C camera)
Minimum Focusing Distance	0.3m (11.8 in.) at 24mm; 0.35m (13.8 in.) at 50mm
Maximum Magnification	0.11x (at 24mm); 0.19x (at 50mm)
Field of View, at Minimum Focus Distance	Approx. 309 × 206mm (12.2 x 8.1 in.) at 24mm; Approx 184 × 123mm (7.2 x 4.9 in.) at 50mm
Angle of View (Diagonal)	Approx. 84° 00’ - 46° 00’
Optical Design	
Lens Construction	8 elements in 8 groups
Special Elements	(Two) Aspheric lenses
Lens Coating	Canon SSC (Super Spectra Coating)
Filter Size Diameter	ø58 mm
Aperture Blades	7
Image Stabilization	4.5 stops correction with In-lens Optical Image Stabilization (7.0 stops correction with EOS R5 in-body coordinated Image stabilization)
Focusing	
Focusing Drive System	Canon STM (Leadscrew type STM)
Full-time Manual Focusing	Yes (Supports both ONE SHOT AF and SERVO AF with compatible EOS R-series cameras)
Dual Pixel CMOS AF Coverage (Horizontal x Vertical)	• EOS R — Approx. 88% x 100% • EOS R5 — Approx. 100% x 100% • EOS R7/R10 — Approx. 100% x 100%
Exterior Design	
Control Ring	Dual-function Manual focus ring / Control Ring (selected using camera menu)
Manual Focus Ring	Electronic ring system • Full-time Manual focus possible • No physical limit to ring rotational angle
AF/MF Switch	Yes; AF/ CONTROL/ MF
MF/Control Ring Switch	Yes; AF/ CONTROL/ MF

<table>
<tr><td>Distance Scale</td><td>Yes
• Distance scale available in EVF or Live View LCD screen of compatible EOS R-series cameras</td></tr>
<tr><td>Distance Limiter Switch</td><td>None</td></tr>
<tr><td>Dust / Weather Resistant Construction</td><td>None</td></tr>
<tr><td colspan="2">Dimensions, Weight</td></tr>
<tr><td>Maximum Outer Diameter x Length</td><td>Approx. ø2.7 in.(ø69.0mm) x 3.7 in. (Wide); 5.3 in. (Tele)</td></tr>
<tr><td>Weight</td><td>Approx. 9.5 oz. / 0.6 lb. / 270g</td></tr>
<tr><td colspan="2">Accessories</td></tr>
<tr><td>Lens hood</td><td>Canon EW-63C (Bundled)
• Petal-type (attachable in reverse)
• Optional accessory, sold separately</td></tr>
<tr><td>Lens Cap</td><td>(Front) Canon E-58 II (center pinch-type) (Bundled)</td></tr>
<tr><td>Dust Cap</td><td>Canon Lens Dust Cap RF (Bundled)</td></tr>
<tr><td>Lens Case</td><td>Canon Lens Case LP1014
• Optional accessory, sold separately</td></tr>
<tr><td>Extension Tubes</td><td>None (No Canon RF mount extension tubes)</td></tr>
<tr><td>Close-up Lenses 250D / 500D</td><td>Compatible
<table>
<tr><td colspan="2">250D</td><td colspan="2">500D</td></tr>
<tr><td>wide</td><td>tele</td><td>wide</td><td>tele</td></tr>
<tr><td>0.10-020x</td><td>0.19-0.38x</td><td>0.04-0.15x</td><td>0.09-0.29x</td></tr>
</table></td></tr>
<tr><td>Canon RF Extender 1.4x/2x</td><td>Not compatible</td></tr>
<tr><td>Canon Gelatin Filter Holder III/IV</td><td>Not compatible</td></tr>
</table>