

Canon

EOS R8



Advanced User Guide

These operating instructions are for the EOS R8 with firmware ver. 1.3.0 or later installed.

E

Specifications

Type

Type: Digital single-lens non-reflex AF/AE camera

Lens mount: Canon RF mount

Compatible lenses: Canon RF lens group (including RF-S lenses)

* Canon EF or EF-S lenses (excluding EF-M lenses) also compatible, using mount adapter EF-EOS R

Lens focal length:

When using RF/EF lenses: Same as focal length indicated on the lens

When using RF-S/EF-S lenses: Approx. 1.6 times the indicated focal length

Image sensor

Type: Full-frame CMOS sensor

Effective pixels*1*2	Max. approx. 24.2 megapixels
Total pixels*1	Approx. 25.6 megapixels
Screen size	Approx. 36.0×24.0 mm
Dual Pixel CMOS AF	Supported

* 1: Rounded to the nearest 100,000.

* 2: Using RF or EF lenses.

The effective pixel count may be lower with certain lenses and image processing.

Recording system

Image recording format: Compliant with Design rule for Camera File system 2.0 and Exif 2.31*1

* 1: Supports time offset information

Image type and extension

Image type		Extension
Still photos	JPEG	.JPG
	HEIF	.HIF
	RAW	.CR3
	C-RAW	
	Dual Pixel RAW	
	RAW burst	
Movies	ALL-I*1, IPB (Standard), IPB (Light)	.MP4

* 1: Time-lapse movies only

Recording media

Recording media: SD/SDHC/SDXC memory cards

UHS-II	Supported
UHS-I	Supported
UHS Speed Class	Supported
SD Speed Class	Supported

Card slot: Equipped with a single slot

Still photo recording

Still photo pixel count

Image size		Resolution (Pixels)				
		Aspect ratio				
		3:2	1.6× (crop) ^{*1}	1:1	4:3	16:9
JPEG / HEIF	L	24.0 megapixels (6000×4000)	Approx. 9.3 megapixels (3744×2496)	16.0 megapixels (4000×4000)	Approx. 21.3 megapixels ^{*2} (5328×4000)	Approx. 20.2 megapixels ^{*2} (6000×3368)
	M	Approx. 10.6 megapixels (3984×2656)		Approx. 7.1 megapixels (2656×2656)	Approx. 9.5 megapixels (3552×2664)	Approx. 8.9 megapixels ^{*2} (3984×2240)
	S1	Approx. 5.9 megapixels (2976×1984)		Approx. 3.9 megapixels (1984×1984)	Approx. 5.3 megapixels (2656×1992)	Approx. 5.0 megapixels ^{*2} (2976×1680)
	S2	Approx. 3.8 megapixels (2400×1600)	Approx. 3.8 megapixels (2400×1600)	Approx. 2.6 megapixels (1600×1600)	Approx. 3.4 megapixels ^{*2} (2112×1600)	Approx. 3.2 megapixels ^{*2} (2400×1344)
RAW	RAW / CRAW	24.0 megapixels (6000×4000)	Approx. 9.3 megapixels (3744×2496)	24.0 megapixels ^{*2} (6000×4000)		

* Values for recorded pixels are rounded off to the nearest 100,000th.

* RAW/C-RAW images are generated at 3:2 and tagged to indicate the specified aspect ratio.

























* JPEG and HEIF images are generated at the specified aspect ratio.

* These aspect ratios (M/S1/S2) and pixel counts also apply to resizing.

* 1: Angle of view of approx. 1.6 times the indicated focal length.

* 2: Aspect ratios are slightly different for these image sizes.

File size/number of shots available

Image quality		File size [Approx. MB]	Available shots [Approx.]* ¹
JPEG* ²	 L	8.2	3700
	 L	4.4	6820
	 M	4.6	6630
	 M	2.6	11450
	 S1	3.1	9820
	 S1	1.9	12840
	 S2	1.8	16290
HEIF* ³	 L	8.3	3600
	 L	6.3	4690
	 M	5.0	5830
	 M	3.9	7400
	 S1	3.5	8390
	 S1	2.8	10270
	 S2	1.8	14250
RAW* ²	 RAW	26.1	1170
	 CRAW	13.2	2350
RAW+JPEG* ²	 RAW +  L	26.1+8.2	890
	 CRAW +  L	13.2+8.2	1430
RAW+HEIF* ³	 RAW +  L	28.6+8.3	820
	 CRAW +  L	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.

* File size varies by shooting conditions (such as cropping/aspect ratio, subject, ISO speed, Picture Style, and Custom Functions).

Maximum burst [Approx.]

Number of shots available when set to [M], without slower continuous shooting

Image quality		Electronic 1st-curtain (approx. 6.0 shots/sec.)		Electronic shutter (approx. 40 shots/sec.)	
		Standard card*1	High-speed card*2	Standard card*1	High-speed card*2
JPEG*3		1000 or more	1000 or more	120	120
		1000 or more	1000 or more	110	120
		1000 or more	1000 or more	110	120
		1000 or more	1000 or more	110	120
HEIF*4		1000 or more	1000 or more	120	120
		1000 or more	1000 or more	120	120
		1000 or more	1000 or more	120	120
		1000 or more	1000 or more	120	120
RAW*3		85	1000 or more	51	56
		1000 or more	1000 or more	98	100
RAW+JPEG*3		70	570	50	54
		180	1000 or more	89	100
RAW+HEIF*4		69	87	35	42
		140	170	89	100

* 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).

* Maximum burst varies depending on shooting conditions (such as cropping/aspect ratio, subject, memory card brand, ISO speed, Picture Style, and Custom Function).

Movie recording

Movie recording format: MP4

Estimated recording time, movie bit rate, and file size

Canon Log: OFF, HDR PQ: OFF

Movie recording size			Total recording time (approx.)			Movie bit rate (approx. Mbps)	File size (approx. MB/min.)
			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	1647
		IPB (Light)	35 min.	2 hr. 21 min.	9 hr. 27 min.	120	860
	29.97 fps 25.00 fps 23.98 fps	IPB (Standard)	35 min.	2 hr. 21 min.	9 hr. 27 min.	120	860
		IPB (Light)	1 hr. 10 min.	4 hr. 43 min.	18 hr. 52 min.	60	431
4K UHD Time-lapse movies	29.97 fps 25.00 fps	ALL-I	9 min.	36 min.	2 hr. 25 min.	470	3362
Full HD High Frame Rate movies	179.82 fps 150.00 fps	IPB (Standard)	23 min.	1 hr. 34 min.	6 hr. 19 min.	180	1287
		IPB (Light)	40 min.	2 hr. 42 min.	10 hr. 50 min.	105	751
	119.88 fps 100.00 fps	IPB (Standard)	35 min.	2 hr. 22 min.	9 hr. 28 min.	120	858
		IPB (Light)	1 hr. 0 min.	4 hr. 3 min.	16 hr. 15 min.	70	501
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	431
		IPB (Light)	2 hr. 0 min.	8 hr. 3 min.	32 hr. 15 min.	35	252
	29.97 fps 25.00 fps 23.98 fps	IPB (Standard)	2 hr. 20 min.	9 hr. 23 min.	37 hr. 35 min.	30	216
		IPB (Light)	5 hr. 47 min.	23 hr. 11 min.	92 hr. 47 min.	12	88
Full HD Time-lapse movies	29.97 fps 25.00 fps	ALL-I	47 min.	3 hr. 9 min.	12 hr. 38 min.	90	644

* 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.

Canon Log: ON, or HDR PQ: ON

Movie recording size			Total recording time (approx.)			Movie bit rate (approx. Mbps)	File size (approx. MB/min.)
			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	2434
		IPB (Light)	25 min.	1 hr. 40 min.	6 hr. 40 min.	170	1218
	29.97 fps 25.00 fps 23.98 fps	IPB (Standard)	25 min.	1 hr. 40 min.	6 hr. 40 min.	170	1218
		IPB (Light)	50 min.	3 hr. 20 min.	13 hr. 20 min.	85	610
4K UHD Time-lapse movies	29.97 fps 25.00 fps	ALL-I	9 min.	36 min.	2 hr. 25 min.	470	3362
Full HD High Frame Rate movies	179.82 fps 150.00 fps	IPB (Standard)	15 min.	1 hr. 3 min.	4 hr. 12 min.	270	1931
		IPB (Light)	28 min.	1 hr. 53 min.	7 hr. 35 min.	150	1073
	119.88 fps 100.00 fps	IPB (Standard)	23 min.	1 hr. 34 min.	6 hr. 19 min.	180	1287
		IPB (Light)	42 min.	2 hr. 50 min.	11 hr. 22 min.	100	715
Full HD Full HD cropped	59.94 fps 50.00 fps	IPB (Standard)	47 min.	3 hr. 9 min.	12 hr. 36 min.	90	646
		IPB (Light)	1 hr. 24 min.	5 hr. 39 min.	22 hr. 38 min.	50	360
	29.97 fps 25.00 fps 23.98 fps	IPB (Standard)	1 hr. 34 min.	6 hr. 17 min.	25 hr. 8 min.	45	324
		IPB (Light)	2 hr. 30 min.	10 hr. 3 min.	40 hr. 15 min.	28	202
Full HD Time-lapse movies	29.97 fps 25.00 fps	ALL-I	31 min.	2 hr. 6 min.	8 hr. 25 min.	135	966

* 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.

Card performance requirements (movie recording) [write/read speed]

Movie recording size			8 bits	10 bits (Canon Log 3 / HDR PQ)
4K UHD 4K UHD cropped	59.94 fps 50.00 fps	IPB (Standard)	UHS Speed Class 3 or higher	Video Speed Class V60 or higher
		IPB (Light)	UHS Speed Class 3 or higher	
	29.97 fps 25.00 fps 23.98 fps	IPB (Standard)	UHS Speed Class 3 or higher	
		IPB (Light)	SD Speed Class 10 or higher	UHS Speed Class 3 or higher
4K UHD Time-lapse movies	29.97 fps 25.00 fps	ALL-I	Read speed of 60 MB/sec. or higher	
Full HD High Frame Rate movies	179.82 fps 150.00 fps	IPB (Standard)	UHS Speed Class 3 or higher	Video Speed Class V60 or higher
		IPB (Light)	UHS Speed Class 3 or higher	
	119.88 fps 100.00 fps	IPB (Standard)	UHS Speed Class 3 or higher	
		IPB (Light)	SD Speed Class 10 or higher	UHS Speed Class 3 or higher
Full HD Full HD cropped	59.94 fps 50.00 fps	IPB (Standard)	SD Speed Class 10 or higher	UHS Speed Class 3 or higher
		IPB (Light)	SD Speed Class 6 or higher	SD Speed Class 10 or higher
	29.97 fps 25.00 fps 23.98 fps	IPB (Standard)	SD Speed Class 6 or higher	
		IPB (Light)	SD Speed Class 4 or higher	
Full HD Time-lapse movies	29.97 fps 25.00 fps	ALL-I	Read speed of 30MB/sec. or higher	

Built-in and external microphones

Built-in microphone: Stereo microphones

External microphone (External microphone IN terminal): 3.5 mm diameter stereo mini jack

External microphone (Multi-function shoe): Compatible with Directional Stereo Microphone DM-E1D

Autofocus

Focusing method: Dual Pixel CMOS AF

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

Movie recording

4K	EV -4.0 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.)
Full HD	EV -4.5 to 21	* Except RF lenses with a Defocus Smoothing (DS) coating

Focusing operation

	Still photo shooting	Movie recording
AF operation*1	<ul style="list-style-type: none">• One-Shot AF• AI Focus AF• Servo AF	<ul style="list-style-type: none">• One-Shot AF• Movie Servo AF
Manual focus (MF)	Supported	Supported

* 1: Available in Creative Zone modes. Automatically set in Basic Zone modes to suit the shooting mode.

* When set to AI Focus AF, the camera automatically switches from One-Shot AF to Servo AF in response to subject movement (also applies during continuous shooting).

* Automatically set to **[AI Focus AF]** in **< [A+] >** mode.

Focus mode: AF / MF

* Applies when an RF or RF-S lens without a focus mode switch is used.

* When lenses with a focus mode switch are used, the setting on the lens takes precedence.

Lens compatibility based on AF area: Refer to the Canon website

Number of AF area available for automatic selection

Focusing area		Horizontal: Approx. 100%, Vertical: Approx. 100%
Number of AF zones	Still photos	Max. 1053 zones (39×27)
	Movies	Max. 1053 zones (39×27)

* May vary depending on settings.

Selectable positions for AF point

Focusing area		Horizontal: Approx. 90%, Vertical: Approx. 100%
Numbers of positions	Still photos	Max. 4897 positions (83×59)
	Movies	Max. 4067 positions (83×49)

* When set to [1-point AF] and selected using the cross keys.

* Values for the selectable positions for AF points do not represent AF performance.

Viewfinder

Type: OLED color electronic viewfinder

Screen size: Approx. 1.0 cm (0.39 inch)

Dot count: Approx. 2,360,000 dots

Magnification / Angle of view: Approx. $0.70\times / 33.0^\circ$ (3:2 aspect ratio, with 50mm lens at infinity, -1 m^{-1})

Coverage: Approx. 100% (at JPEG Large image quality, 3:2 aspect ratio, approx. 22 mm eyepoint)

Eyepoint: Approx. 22 mm (at -1 m^{-1} from eyepiece lens end)

Dioptric adjustment: Approx. -4.0 to $+1.0\text{ m}^{-1}$ (dpt)

Screen

Type: TFT color, liquid-crystal monitor

Screen size: Approx. 7.5 cm (3.0 inch) (screen aspect ratio of 3:2)

Dot count: Approx. 1,620,000 dots

Angle of view: Approx. 170° vertically and horizontally

Coverage: Approx. 100% vertically and horizontally (at Large image size and an aspect ratio of 3:2)

Screen brightness: Manually adjustable in a range of 1–7

Touch-screen: Capacitive sensing

HDMI output

HDMI video / audio output: HDMI micro OUT terminal (Type D)

* HDMI CEC not supported

HDMI resolution: Auto / 1080p

Exposure control

Metering functions under various shooting conditions

Item		Still photo shooting	Movie recording
Metering sensor		384-zone (24×16) metering using image sensor output signals*1	
Metering mode	Evaluative metering	○	○ * When faces are detected
	Partial metering	* Approx. 5.9% in the center of the screen*3	
	Spot metering*2	* Approx. 3.0% in the center of the screen*3	
	Center-weighted average metering	○	○ * When no faces are detected * When set to Canon Log 3
Metering brightness range (at room temperature, ISO 100)		EV -3 to 20	EV -1 to 20

* 1: Same applies when set to [1.6x (crop)].

* 2: Multi-spot metering not available (not supported).

* 3: When set to Full-frame. Values differ when set to 1.6x (crop) or digital tele-converter 2.0x/4.0x.

ISO speed (recommended exposure index) in still photo shooting

Manual ISO speed setting for still photos

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

* When set to [Highlight tone priority], the available manual setting range is ISO 200–102400.

* Expanded ISO speeds cannot be set in HDR mode or for HDR shooting (HDR PQ).




Manual ISO speed setting range for still photos

ISO speed range	ISO speed
Minimum	L (equivalent to ISO 50) to ISO 102400 (in 1-stop increments)
Maximum	ISO 100 to H (equivalent to ISO 204800, in 1-stop increments)

ISO Auto setting range for still photos

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

ISO Auto details for still photos

Shooting mode		No flash	Using flash	
Variable control of maximum ISO Auto limit for E-TTL			Compatible lens	Incompatible lens
Creative Zone	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	
Basic Zone	 / 	ISO 100–25600	ISO 100–6400	ISO 100–1600
	SCN	Varies by shooting mode		
		Varies by shooting mode		

* 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.

Variable control of maximum ISO Auto limit for E-TTL: Supported

ISO speed (recommended exposure index) in movie recording

Manual ISO speed setting for movies (in M mode)

	Canon Log 3	ISO speed
Normal ISO speed	Off	ISO 100–25600 (in 1/3- or 1-stop increments)
	On	ISO 800–25600 (in 1/3- or 1-stop increments)
Expanded ISO speed*1	Off	H (equivalent to ISO 32000, 40000, 51200, 64000, 80000, or 102400)
	On	L (equivalent to ISO 100, 125, 160, 200, 250, 320, 400, 500, or 640) H (equivalent to ISO 32000, 40000, 51200, 64000, 80000, or 102400)

* 1: When set to 4K 59.94p/50.00p, maximum expanded ISO speed is equivalent to ISO 51200.

* Maximum ISO speed when set manually corresponds to the **[ISO speed range]** setting.

* The lower end of the ISO speed range starts at ISO 200 when the camera is set to **[Highlight tone priority]**.

* Expanded ISO speeds are not available in HDR or HDR PQ movie recording, in movie recording with shooting creative filters, or with digital zoom.

* The default setting range when set to Canon Log 3 is L and ISO 800–25600.

Automatic ISO speed setting for movies (in P / Tv / Av mode, and in M mode with ISO Auto)

	Canon Log 3	ISO speed
Normal ISO speed	Off	ISO 100–25600 (in 1/3- or 1-stop increments)
	On	ISO 800–25600 (in 1/3- or 1-stop increments)
Expanded ISO speed* ¹	Off	H (equivalent to ISO 32000, 40000, 51200, 64000, 80000, or 102400)
	On	

* 1: When set to 4K 59.94p/50.00p, maximum expanded ISO speed is equivalent to ISO 51200.

* Maximum ISO speed when set automatically corresponds to the **[Max for Auto]** setting.

* The lower end of the ISO speed range starts at ISO 200 when the camera is set to **[Highlight tone priority]**.

* Expanded ISO speeds are not available in HDR or HDR PQ movie recording, in movie recording with shooting creative filters, or with digital zoom.

Manual ISO speed setting range for movies

ISO speed range	ISO speed
Minimum	ISO 100–25600 or H (equivalent to ISO 51200), in 1-stop increments
Maximum	ISO 200–25600 or H (equivalent to ISO 51200 or 102400), in 1-stop increments

* Maximum expanded ISO speed is equivalent to ISO 51200 when set to 4K 59.94p/50.00p, even with **[Maximum]** set to **[H(102400)]**.

Maximum ISO Auto setting for movies

	ISO speed
Max for Auto	ISO 6400–25600 or H (equivalent to ISO 51200 or 102400), in 1-stop increments

* Maximum expanded ISO speed is equivalent to ISO 51200 when set to 4K 59.94p/50.00p, even with **[Max for Auto]** set to **[H(102400)]**.

Maximum ISO Auto setting for time-lapse movies

	ISO speed
Max for Auto	ISO 400, 800, 1600, 3200, 6400, 12800 or 25600, in 1-stop increments

Shutter

Still photo shooting

Type:

Electronically controlled focal-plane shutter
Rolling shutter, using the image sensor

Shutter mode

Shutter mode	Flash photography
Electronic 1st-curtain	Possible
Electronic shutter	Disabled

Shutter speed / X-sync speed

Shutter mode		Setting range	Setting increments	X-sync
Electronic 1st-curtain		1/4000–30 sec., Bulb	1/3 stop, 1/2 stop	1/200 sec.
Electronic shutter*1*2	High-speed continuous shooting +	1/8000–30 sec., Bulb		
	Other than above	1/16000*3, 1/8000– 30 sec., Bulb		

* 1: 1/16000 sec. is only available in Tv or M mode (up to 1/8000 sec. in Fv, P, or Av mode).

* 2: Adjustments by the camera when the shutter speed is set to 1/16000 sec. may involve the aperture value or ISO speed in some shooting conditions, because exposure cannot be controlled in 1/3- or 1/2-stop increments.

* 3: Up to 1/8000 sec. when set to RAW burst mode, HDR mode, focus bracketing, or same exposure for new aperture (ISO speed / Tv, Tv).

Movie recording

Type: Rolling shutter, using the image sensor

Shutter speed:

1/8000*1–1/25*2*3 sec.

Movies in Tv or M mode: 1/8000*1–1/8*2*3 sec.

* 1: Time-lapse movies: Maximum of 1/4000 sec.

* 2: Normal movies: Minimum speed varies by recording mode and frame rate.

* 3: High Frame Rate movies: Minimum of 1/200 sec. (NTSC) or 1/160 sec. (PAL) at 179.82 / 150.00 fps; minimum of 1/125 sec. (NTSC) or 1/100 sec. (PAL) at 119.88 / 100.00 fps.

Drive

Continuous shooting speed

[Max. approx.]

Drive mode	AF operation	Electronic 1st-curtain	Electronic shutter
Single shooting		○	○
High-speed continuous shooting +	One-Shot AF Servo AF	6.0 shots/sec.	40 shots/sec.
High-speed continuous shooting	One-Shot AF Servo AF	6.0 shots/sec.	20 shots/sec.
Low-speed continuous shooting	One-Shot AF Servo AF	3.0 shots/sec.	5.0 shots/sec.
Self-timer: 10 sec.		○	○
Self-timer: 2 sec.		○	○
Self-timer: Continuous shooting		○	○

External flash

Accessory shoe contacts: 21 pins for accessories compatible with the multi-function shoe, 5 pins for X-sync and communication

Flash exposure compensation: ±3 stops (in 1/3- or 1/2-stop increments)

Playback

Item	Still photos	Movies
AF point display	○	
Playback grid	Off / 3×3 / 6×4 / 3×3+diag	
Magnified view	1.5×–10× (15 levels)	
Set image search conditions	Search conditions Rating / Date / Folder / Protection / Type of file (1) / Type of file (2)	
Rating	OFF / ★ to ★★★★★ Select images / Select range / All images in folder / All images on card / All found images	
Protect images	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 / Unprotect all found images	
In-camera RAW image processing	○	
Resizing	○	
Cropping	○	

Cloud RAW image processing

A feature for uploading images to image.canon for cloud-based RAW processing. Requires some preparation, such as pairing the camera and submitting information for payment purposes.

Frame grab from 4K movies

Individual frames of 4K movies recorded with the camera can be saved as approx. 8.3-megapixel (3840×2160) still photos (JPEG or HEIF).

* From normal movies, still photos are saved as JPEGs, and from HDR PQ movies, as HEIF images.

* Images can be extracted from 4K or cropped 4K movies.

* Extraction is not possible from Canon Log 3 movies.

* In-camera resizing or cropping is not supported for extracted still photos, and these images cannot be edited with Creative filters or Creative Assist.

Print order (DPOF)

Compliant with DPOF Version 1.1

External interface

Digital terminal

Terminal type	USB Type-C
Transmission	Equivalent to SuperSpeed Plus USB (USB 3.2 Gen 2)
Applications	<ul style="list-style-type: none">• For computer communication / smartphone communication• USB battery charging / camera power supply

HDMI output terminal: HDMI micro OUT terminal (Type D)

External microphone IN terminal: 3.5 mm diameter stereo mini jack

Headphone terminal: 3.5 mm diameter stereo mini jack

Remote control terminal: Terminal compatible with Remote Switch RS-60E3

Power source

Battery

Compatible battery packs	LP-E17
Quantity used	1

USB battery charging and camera power supply: Using USB Power Adapter PD-E1

AC power source

AC adapter	AC-E6N
DC coupler	DR-E18

Number of shots available

Shooting method	Temperature	Available shots (approx.)	
		Power saving* ¹	Smooth* ²
Viewfinder	23°C / 73°F	220	150
Screen		370	290

* 1: Based on CIPA standards.

* 2: According to Canon measurement conditions, which are based on CIPA standards.

* With a new, fully charged LP-E17

* The number of shots available may vary greatly depending on the shooting environment.

* Fewer shots may be available with a compatible accessory attached to the multifunction shoe, because the camera powers the accessory.

Available operating time

Conditions of use			Temperature	Available operating time
Time available for bulb exposure			23°C / 73°F	Approx. 3 hr. 10 min.
Time available for Live View shooting * Using the screen			23°C / 73°F	Approx. 2 hr. 40 min.
Time available for movie recording * Movie Servo AF: Disable * Movie cropping: Disable	4K	<ul style="list-style-type: none"> • IPB (Standard) • 59.94 fps / 50.00 fps 	23°C / 73°F	Approx. 40 min.
			0°C / 32°F	Approx. 35 min.
	Full HD	<ul style="list-style-type: none"> • IPB (Standard) • 29.97 fps / 25.00 fps 	23°C / 73°F	Approx. 2 hr. 00 min.
			0°C / 32°F	Approx. 1 hr. 40 min.
Available movie playback time (normal playback)	4K	<ul style="list-style-type: none"> • IPB (Standard) • 59.94 fps / 50.00 fps 	23°C / 73°F	Approx. 3 hr. 20 min.

* With a fully charged new LP-E17

Dimensions and weight

Dimensions

(W) × (H) × (D)	Approx. 132.5×86.1×70.0 mm / Approx. 5.22×3.39×2.76 in.
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* Based on CIPA guidelines.

Weight

Body (including battery and card) * Based on CIPA guidelines.	Approx. 461 g / Approx. 16.26 oz.
Body only	Approx. 414 g / Approx. 14.60 oz.

* Not including body cap or shoe cover.

Operating environment

Operating temperature: 0–40°C / 32–104°F

Operating humidity: 85% or less

Wi-Fi (wireless LAN)

Supported standards (equivalent to IEEE 802.11b/g/n standards)

Wi-Fi standards	Transmission method	Maximum link speed
IEEE 802.11b	DSSS modulation	11 Mbps
IEEE 802.11g	OFDM modulation	54 Mbps
IEEE 802.11n		72.2 Mbps

* Not compatible with MIMO (Multiple-input and multiple-output).

Transmission frequency (Center frequency)

2.4 GHz band

Frequency	2412 to 2462 MHz
Channels	1 to 11 ch

Authentication and data encryption methods

Connection method	Authentication method	Encryption method
Camera access point	WPA2 / WPA3-Personal	AES
	Open	Disable
Infrastructure	Open	WEP
		Disable
	Shared key	WEP
	WPA / WPA2 / WPA3-Personal	TKIP AES

Bluetooth

Standards compliance: Bluetooth Specification Version 4.2 compliant (Bluetooth Low Energy technology)

Transmission method: GFSK modulation

- All data above is based on Canon testing standards and CIPA (Camera & Imaging Products Association) testing standards and guidelines.
- Dimensions and weight listed above are based on CIPA Guidelines (except weight for camera body only).
- Product specifications and appearance are subject to change without notice.
- If a problem occurs with a non-Canon lens attached to the camera, contact the respective lens manufacturer.