

Canon

EOS R7



Advanced User Guide

E

Specifications

Type

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

Lens mount: Canon RF mount

Compatible lenses: Canon RF and RF-S lens groups

* Using Mount Adapter EF-EOS R: Canon EF or EF-S lenses (EF-M lenses not compatible)

Lens focal length: Approx. 1.6 times the focal length indicated on the lens

Image sensor

Type: CMOS sensor

Effective pixels*1*2	Max. approx. 32.5 megapixels
Total pixels*1	Approx. 34.4 megapixels
Screen size	Approx. 22.3 × 14.8 mm
CMOS size	APS-C
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 difference information

Image type and extension

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

* 1: Time-lapse movies only

Recording media

Recording media

SD, SDHC, SDXC memory cards

SD speed class	Supported
UHS speed class	Supported
UHS-I	Supported
UHS-II	Supported

Card slot: Equipped with dual card slots

- Card slot 1: UHS-II supported
- Card slot 2: UHS-II supported

Still photo recording

Still photo pixel count

Image quality		Recorded pixels			
		Aspect ratio			
		3:2	4:3	16:9	1:1
JPEG/ HEIF	L	Approx. 32.3 megapixels (6960 × 4640)	Approx. 28.6 megapixels* ¹ (6160 × 4640)	Approx. 27.2 megapixels* ¹ (6960 × 3904)	Approx. 21.5 megapixels (4640 × 4640)
	M	Approx. 15.4 megapixels (4800 × 3200)	Approx. 13.6 megapixels* ¹ (4256 × 3200)	Approx. 12.9 megapixels* ¹ (4800 × 2688)	Approx. 10.2 megapixels (3200 × 3200)
	S1	Approx. 8.1 megapixels* ¹ (3472 × 2320)	Approx. 7.1 megapixels* ¹ (3072 × 2320)	Approx. 6.8 megapixels* ¹ (3472 × 1952)	Approx. 5.4 megapixels (2320 × 2320)
	S2	Approx. 3.8 megapixels (2400 × 1600)	Approx. 3.4 megapixels* ¹ (2112 × 1600)	Approx. 3.2 megapixels* ¹ (2400 × 1344)	Approx. 2.6 megapixels (1600 × 1600)
RAW	RAW/CRAW	Approx. 32.3 megapixels (6960 × 4640)			

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

* RAW/C-Raw images are generated at 3:2, with information added about the specified aspect ratio, and JPEG images are generated at the specified aspect ratio.

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

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

Still photo file size / Number of shots available

Image quality		File size [Approx. MB]	Available shots [Approx.]* ¹
JPEG* ²	 L	10.6	2881
	 M	5.5	5549
	 M	6.0	5124
	 M	3.2	9383
	 S1	3.7	8317
	 S1	2.1	14129
	S2	1.8	16914
HEIF* ³	 L	10.4	2928
	 M	7.9	3871
	 M	6.3	4891
	 M	4.8	6328
	 S1	4.2	7304
	 S1	3.3	9164
	S2	2.0	14995
RAW* ²	RAW	35.1	873
	CRAW	17.9	1735
RAW+JPEG* ²	RAW +  L	35.1 + 10.6	669
	CRAW +  L	17.9 + 10.6	1082
RAW+HEIF* ³	RAW +  L	38.1 + 10.4	627
	CRAW +  L	20.8 + 10.4	976

* 1: Number of shots available applies to a 32 GB card conforming to Canon testing standards.

* 2: When set to [HDR shooting **HDR PQ**: Disable].

* 3: When set to [HDR shooting **HDR PQ**: Enable].

* File size and number of shots available are measured based on Canon testing standards.

* File size and number of shots available vary depending on shooting conditions (including aspect ratio, subject, ISO speed, Picture Style, and Custom Function).

Maximum burst for continuous shooting [Approx.]

Number of shots available when set to [Drive mode:] without slower continuous shooting

Shutter mode Continuous shooting speed		Mechanical shutter / Electronic 1st-curtain Approx. 15 shots/sec.		Electronic shutter Approx. 30 shots/sec.	
Card used for recording		Standard card*1	High-speed card*2	Standard card*1	High-speed card*2
JPEG*3		184	224	117	126
		222	222	115	118
		203	203	115	120
		210	210	111	119
HEIF*4		184	190	117	122
		190	190	115	118
		190	190	115	120
		190	190	111	119
RAW*3		46	59	41	42
		105	187	87	93
RAW+JPEG*3		46	51	41	42
		101	144	84	93
RAW+HEIF*4		46	51	41	41
		101	109	84	93

* Maximum burst as measured under conditions conforming to Canon testing standards (High-speed continuous + in One-Shot AF mode, ISO 100, and Standard Picture Style).

* Number of shots available varies depending on shooting conditions (including aspect ratio, subject, memory card brand, ISO speed, Picture Style, and Custom Function).

* 1: When using a 32 GB UHS-I card that conforms to Canon testing standards.

* 2: When 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].

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.)
Movie recording	Frame rate (fps)		Compression method	32 GB	128 GB	512 GB		
	NTSC	PAL						
4K UHD Fine	29.97 23.98	25.00	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	59.94	50.00	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 23.98	25.00	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 Crop	59.94	50.00	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
4K UHD (Time-lapse movies)	29.97	25.00	ALL-I	9 min.	36 min.	2 hr. 25 min.	470	3362

Full HD (High Frame Rate movies)	119.88	100.00	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	59.94	50.00	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 23.98	25.00	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	25.00	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.

* When audio data is set to **[C.Fn 4-2 Audio compression: Enable]** (audio: AAC recording).

* Movie recording stops when the maximum recording time per movie is reached.

* Sound is not recorded for approx. the last two frames when the compression method for movie recording quality is IPB (Standard) and the camera is set to **[C.Fn 4-2 Audio compression: Enable]** or IPB (Light) (audio: AAC). 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.)
Movie recording	Frame rate (fps)		Compression method	32 GB	128 GB	512 GB		
	NTSC	PAL						
4K UHD Fine	29.97 23.98	25.00	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	59.94	50.00	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 23.98	25.00	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 Crop	59.94	50.00	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
4K UHD (Time-lapse movies)	29.97	25.00	ALL-I	9 min.	36 min.	2 hr. 25 min.	470	3362

Full HD (High Frame Rate movies)	119.88	100.00	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	59.94	50.00	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 23.98	25.00	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	25.00	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.

* When audio data is set to **[C.Fn 4-2 Audio compression: Enable]** (audio: AAC recording).

* Movie recording stops when the maximum recording time per movie is reached.

* Sound is not recorded for approx. the last two frames when the compression method for movie recording quality is IPB (Standard) and the camera is set to **[C.Fn 4-2 Audio compression: Enable]** or IPB (Light) (audio: AAC). 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				SD card		
Resolution	Frame rate (fps)		Compression method	8 bit	10 bit (Canon Log 3 / HDR PQ)	
	NTSC	PAL				
4K UHD Fine 4K UHD 4K UHD Crop	59.94	50.00	IPB (Standard)	UHS Speed Class 3 or higher	Video Speed Class V60 or higher	
			IPB (Light)	UHS Speed Class 3 or higher		
	29.97 23.98	25.00	IPB (Standard)	UHS Speed Class 3 or higher		
			IPB (Light)	SD Speed Class 10 or higher	UHS Speed Class 3 or higher	
Full HD	119.88	100.00	IPB (Standard)	UHS Speed Class 3 or higher		
			IPB (Light)	SD Speed Class 10 or higher	UHS Speed Class 3 or higher	
	59.94	50.00	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 23.98	25.00	IPB (Standard)	SD Speed Class 6 or higher		
			IPB (Light)	SD Speed Class 4 or higher		
4K (Time-lapse movies)	29.97	25.00	ALL-I	Read speed of 60 MB/sec. or higher		
Full HD (Time-lapse movies)	29.97	25.00	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

Viewfinder

Type: OLED color electronic viewfinder

Screen size: Approx. 1.00 cm (0.39 inch)

Dot count: Approx. 2,360,000 dots

Magnification / angle of view: Approx. 1.15× / 33° (with 3:2 display, an RF50mm F1.2 L USM lens at infinity, -1 m^{-1})

Coverage: Approx. 100%

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

Dioptric adjustment: Approx. -4.0 to $+2.0 \text{ m}^{-1}$ (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 L image quality and an aspect ratio of 3:2)

Screen brightness: Adjustable to one of seven brightness levels

Touch-screen: Capacitive sensing

HDMI output

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

* HDMI CEC not supported

HDMI resolution: Auto / 1080p

Autofocus

Focusing method: Dual Pixel CMOS AF

Focusing brightness range

Still photo shooting: EV -5.0 to 20

Conditions: When used with an f/1.2 lens*, center AF point, One-Shot AF, at room temperature and ISO 100

* Except for RF lenses with a Defocus Smoothing (DS) coating.

Movie recording: EV -3.5 to 20

Conditions: When used with an f/1.2 lens*, center AF point, One-Shot AF, at room temperature and ISO 100, recording in Full HD (29.97 / 25.00 fps)

* Except for RF lenses with a Defocus Smoothing (DS) coating.

Focusing operation

	Still photo shooting	Movie recording
AF operation	<ul style="list-style-type: none">• One-Shot AF• Servo AF• In A+ mode, automatically switched from One-Shot AF to Servo AF depending on the subject	<ul style="list-style-type: none">• One-Shot AF• Movie Servo AF
Manual focus	Supported	Supported

Focus mode switch: AF / MF

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

* When lenses with a focus mode switch are attached, 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%
Still photos	Max. 651 zones (31 × 21)
Movies	Max. 527 zones (31 × 17)

Selectable positions for AF point

Focusing area	Horizontal: Approx. 90%, Vertical: Approx. 100%	
Numbers of positions	Still photos	Max. 5915 positions (91 × 65)
	Movies	Max. 4823 positions (91 × 53)

* When set to [1-point AF] and selected using the Multi-controller.

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	
Metering mode	Evaluative metering	○	○ * When faces is detected
	Partial metering	○ * Approx. 6.0% in the center of the screen	
	Spot metering	○ * Approx. 3.0% in the center of the screen	
	Center-weighted average	○	○ * When face is not detected * When set to Canon Log 3
Metering brightness range (At room temperature, ISO 100)		EV -2 to 20	EV 0 to 20

ISO speed (recommended exposure index) in still photo shooting

Manual ISO speed setting for still photos

Normal ISO speed	ISO 100–32000 (in 1/3-stop or 1-stop increments)
Expanded ISO speed	H (equivalent to ISO 51200)

* ISO 200–32000 when [Highlight tone priority] is configured.

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

Manual ISO speed setting range limits for still photos

Maximum	ISO 200–H (equivalent to ISO 51200, in 1-stop increments)
Minimum	ISO 100–32000 (in 1-stop increments)

ISO Auto setting range limits for still photos

Maximum	ISO 200–32000 (in 1-stop increments)
Minimum	ISO 100–25600 (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	ISO 100* ¹⁺² –32000* ²	ISO 100* ¹⁺² –6400* ²	ISO 100* ¹⁺² –1600* ²
	P			
	Tv			
	Av			
	M			
	B	ISO 400* ³	ISO 400* ³	ISO 400* ³
Basic Zone	A+	ISO 100–6400	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 most close to ISO 400.

Variable control of maximum ISO Auto limit for E-TTL for still photos: 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 100–12800 (in 1/3- or 1-stop increments)
	On	ISO 800–12800 (in 1/3- or 1-stop increments)
Expanded ISO speed	Off	H (equivalent to ISO 16000–25600; in 1/3-stop increments)
	On	L (equivalent to ISO 100–640), H (equivalent to 16000–25600) (in 1/3-stop increments)

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

* The setting range is ISO 200–12800 when **[Highlight tone priority]** is configured.

* Expanded ISO speeds are not available in HDR PQ movie, HDR movie, or High Frame Rate movie recording.

* The default setting range when set to Canon Log 3 is L and ISO 800–12800.

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

	Canon Log 3	ISO speed
Normal ISO speed	Off	ISO 100–12800 (in 1/3- or 1-stop increments)
	On	ISO 800–12800 (in 1/3- or 1-stop increments)
Expanded ISO speed	Off	H (equivalent to ISO 25600)
	On	

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

* The setting range is ISO 200–12800 when **[Highlight tone priority]** is configured.

* Expanded ISO speeds are not available in HDR PQ movie, HDR movie, or High Frame Rate movie recording.

Manual ISO speed setting range for movies

The manual ISO speed setting range (maximum and minimum) can be changed.

Maximum	ISO 200–12800 or H (equivalent to ISO 25600, in 1-stop increments)
Minimum	ISO 100–12800 (in 1-stop increments)

Maximum ISO Auto setting for movies

Max for ISO Auto	ISO 6400 / 12800 / H (equivalent to ISO 25600)
Time-lapse movies Max for ISO Auto	ISO 400–12800 (in 1-stop increments)

Shutter

Shutter functionality in still photo shooting

Type:

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

Shutter mode

	Flash photography
Mechanical shutter	Possible
Electronic 1st curtain	Possible
Electronic shutter	Disabled

Shutter speed / X-sync speed

Shutter mode	Setting range	Setting increments	X-sync
Mechanical shutter	1/8000–30 sec., Bulb	1/3 stop, 1/2 stop	1/250 sec.
Electronic 1st curtain	1/8000–30 sec., Bulb	1/3 stop, 1/2 stop	1/320 sec.
Electronic shutter	1/16000, 1/8000–30 sec., Bulb	1/3 stop, 1/2 stop	

* 1/16000 sec. with electronic shutter is settable only in Tv or M mode. It is not available in Fv, P and Av modes or Basic Zone modes.

* Even in Tv or M mode, 1/16000 sec. with electronic shutter is not available with conditions as below.

- When setting to HDR mode or focus bracketing shooting.

- If [ISO speed/Shutter speed] or [Shutter speed] is set for Maintaining exposure when the aperture value changes.

Shutter functionality in movie recording

Type: Rolling shutter, using the image sensor

Shutter Speed:

Movie auto exposure: 1/4000–1/25*¹ sec.

Movie shutter-priority/manual exposure: 1/4000–1/8*¹ sec.

* Varies by shooting mode and frame rate.

* 1: 1/125 sec. (NTSC) or 1/100 sec. (PAL) with [High Frame Rate] set to [Enable].

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

Drive

Drive mode and continuous shooting speed

Drive modes	AF operation	Mechanical shutter	Electronic 1st curtain	Electronic shutter
Single shooting		○		
High-speed continuous shooting +	One-Shot AF	Max. approx. 15 shots/sec.	Max. approx. 15 shots/sec.	Max. approx. 30 shots/sec.
	Servo AF			
High-speed continuous shooting	One-Shot AF	Max. approx. 6.5 shots/sec.	Max. approx. 8.0 shots/sec.	Max. approx. 15 shots/sec.
	Servo AF			
Low-speed continuous shooting	One-Shot AF	Max. approx. 3.0 shots/sec.	Max. approx. 3.0 shots/sec.	Max. approx. 3.0 shots/sec.
	Servo AF			
Self-timer: 10 sec / remote control		○		
Self-timer: 2 sec / remote control		○		
Self-timer: Continuous		○		

Image stabilization (IS mode): Provided

Playback functions

Item	Still photos	Movies
AF point display	<input type="radio"/>	
Playback grid	Off / 3x3 / 6x4 / 3x3+diag	
Magnified view	1.5x–10x (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	<input type="radio"/>	
Resizing	<input type="radio"/>	
Cropping	<input type="radio"/>	

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 billing purposes.

Frame grab from 4K movies

Individual frames of 4K movies recorded with this 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.

* Movies enabling extraction: 4K Fine / 4K / 4K Crop

* Extracted still photos cannot be resized or cropped within the camera.

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 input terminal: Equipped with the 3.5 mm diameter stereo mini jack

Headphone terminal: Equipped with the 3.5 mm diameter stereo mini jack

Remote control terminal: Remote Switch RS-60E3 type terminal supported

Power source

Battery

Compatible battery packs	LP-E6NH / LP-E6N / LP-E6
Quantity used	1

USB battery charging/Camera power supply: Using USB Power Adapter PD-E1

AC power source

Power source section	AC Adapter AC-E6N
Connected section	DC Coupler DR-E6

Number of shots available

Type of shooting	Temperature	Battery life (Approx. number of shots)	
		Power saving* ¹	Smooth* ²
Viewfinder shooting	+23°C / 73°F	500	380
On-screen shooting		770	660

* 1: CIPA guidelines compliant.

* 2: Based on CIPA guidelines, conforming to Canon testing standards.

* Using a new, fully charged LP-E6NH, with an SD card conforming to Canon testing standards.

* 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. 5 hr.
Time available for Live View display (on-screen shooting)		+23°C / 73°F	Approx. 5 hr.
Time available for movie recording * Movie Servo AF: Disable	Full HD	+23°C / 73°F	Approx. 3 hr. 50 min.
		0°C / 32°F	Approx. 3 hr. 30 min.
Available movie playback time (normal playback)	4K	• IPB (Standard) • 59.94 fps / 50.00 fps	Approx. 5 hr. 30 min.

* With a fully charged LP-E6NH

Dimensions and weight

Dimensions

(W) × (H) × (D)	Approx. 132.0 × 90.4 × 91.7 mm / 5.20 × 3.56 × 3.61 in.
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* Based on CIPA guidelines.

Weight

Body (including battery and card 1) * Based on CIPA guidelines.	Approx. 612 g / 21.59 oz.
Body only	Approx. 530 g / 18.70 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) communication

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

Transmission frequency (Center frequency)

Frequency	2412 to 2462 MHz
Channels	1 to 11 ch

Authentication and data encryption methods

Connection method	Authentication	Encryption
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.