



EOS R1



Advanced User Guide

These operating instructions are for the EOS R1 with firmware ver. 1.0.1 or later installed.

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 focal length indicated on the lens

Image sensor

Type: Full-frame back-illuminated stacked CMOS sensor

Effective pixels*1*2	Max. approx. 24.2 megapixels
Total pixels*1	Approx. 26.7 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 difference information

Image type / recording format / extension

Image type / recording format		Extension
Still photo	JPEG	.JPG
	HEIF	.HIF
	RAW	.CR3
	C-RAW	
Movies	RAW	.CRM
	XF-HEVC S YCC422 10bit XF-HEVC S YCC420 10bit XF-AVC S YCC422 10bit XF-AVC S YCC420 8bit	.MP4
	News Metadata*1	.XML

* 1: When an MP4 movie is recorded with **[Add CP File: On]** set, a ".CPF" file will be created.

Recording media

Recording media:

Card 1: CFexpress memory card

Card 2: CFexpress memory card

* Type B: Card slot

* CFexpress 2.0 and VPG400 supported

Still photo recording

Recording pixel count

Image size		Resolution (Pixels)				
		Still photo cropping / 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 in [3:2], and the set aspect ratio information is appended to the images.

* JPEG/HEIF images are generated in the set 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.

Still photo file size / Number of shots available / Maximum burst for continuous shooting

Mechanical shutter / electronic first-curtain

Image quality		File size [Approx. MB]	Available shots [Approx.]* ¹	Maximum burst [Approx.]* 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* ²	RAW	27.5	11530	1000 or more
	CRAW	12.4	25520	1000 or more
RAW+JPEG* ²	RAW+L	27.5 + 8.3	8840	1000 or more
	CRAW+L	12.4 + 8.3	15250	1000 or more
RAW+HEIF* ³	RAW+L	27.5 + 8.4	8230	260
	CRAW+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).

Electronic shutter

Image quality		File size [Approx. MB]	Available shots [Approx.]* ¹	Maximum burst [Approx.]* ¹
JPEG* ²	L	See " Mechanical shutter / electronic first-curtain ".		500
	M			510
	S1			510
	S2			510
HEIF* ³	L			500
	M			500
	S1			510
	S2			510
RAW* ²	RAW			230
	CRAW			410
RAW+JPEG* ²	RAW+L			220
	CRAW+L			380
RAW+HEIF* ³	RAW+L			190
	CRAW+L			340

* 1: Number of shots available and maximum burst apply to 325 GB cards conforming to Canon testing standards.

* 2: When [H] **HDR shooting (PQ): Disable** is set.

* 3: When [H] **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).

Movie recording

Main recording format

Main recording format	File extension
RAW	CRM
XF-HEVC S YCC422 10bit	MP4
XF-HEVC S YCC420 10bit	MP4
XF-AVC S YCC422 10bit	MP4
XF-AVC S YCC420 8bit	MP4

Proxy recording format

Proxy recording format	File extension
XF-HEVC S YCC420 10bit	MP4
XF-AVC S YCC420 8bit	MP4

* Set automatically depending on the main recording system.

* When [ **Rec options**] of [**Record func+card/folder sel.**] is set to [**1**]**Main** [**2**]**Proxy**, proxy recording is possible.

Movie recording size

Main movie

Recording format	Compression method / RAW format	Resolution	Image quality	Frame rate (fps)					
				239.76	200.00	119.88	100.00	59.94	50.00
RAW	Standard RAW	RAW	—					Yes	Yes
	Light RAW							Yes	Yes
XF-HEVC S YCC422 10bit XF-HEVC S YCC420 10bit XF-AVC S YCC420 8bit	Standard LGOP	4K-D	Fine					Yes	Yes
			Normal			Yes*1	Yes*1	Yes	Yes
		4K-U	Fine					Yes	Yes
			Normal			Yes*1	Yes*1	Yes	Yes
		2K-D	Fine					Yes	Yes
			Normal	Yes*1	Yes*1	Yes*1	Yes*1	Yes	Yes
		Full HD	Fine					Yes	Yes
			Normal	Yes*1	Yes*1	Yes*1	Yes*1	Yes	Yes
XF-AVC S YCC422 10bit	High Quality Intra Standard Intra Light Intra Standard LGOP	4K-D	Fine					Yes	Yes
			Normal			Yes*1+2	Yes*1+2	Yes	Yes
		4K-U	Fine					Yes	Yes
			Normal			Yes*1+2	Yes*1+2	Yes	Yes
	Standard Intra Standard LGOP	2K-D	Fine					Yes	Yes
			Normal	Yes*1	Yes*1	Yes*1	Yes*1	Yes	Yes
		Full HD	Fine					Yes	Yes
			Normal	Yes*1	Yes*1	Yes*1	Yes*1	Yes	Yes

Recording format	Compression method / RAW format	Resolution	Image quality	Frame rate (fps)			
				29.97	25.00	24.00	23.98
RAW	Standard RAW	RAW	—	Yes	Yes	Yes	Yes
	Light RAW			Yes	Yes	Yes	Yes
XF-HEVC S YCC422 10bit XF-HEVC S YCC420 10bit XF-AVC S YCC420 8bit	Standard LGOP	4K-D	Fine	Yes	Yes	Yes	Yes
			Normal	Yes	Yes	Yes	Yes
		4K-U	Fine	Yes	Yes		Yes
			Normal	Yes	Yes		Yes
		2K-D	Fine	Yes	Yes	Yes	Yes
			Normal	Yes	Yes	Yes	Yes
		Full HD	Fine	Yes	Yes		Yes
			Normal	Yes	Yes		Yes
XF-AVC S YCC422 10bit	High Quality Intra Standard Intra Light Intra Standard LGOP	4K-D	Fine	Yes	Yes	Yes	Yes
			Normal	Yes	Yes	Yes	Yes
		4K-U	Fine	Yes	Yes		Yes
			Normal	Yes	Yes		Yes
	Standard Intra Standard LGOP	2K-D	Fine	Yes	Yes	Yes	Yes
			Normal	Yes	Yes	Yes	Yes
		Full HD	Fine	Yes	Yes		Yes
			Normal	Yes	Yes		Yes

* 1: With **[High Frame Rate: Disable]** setting, movie is recorded with audio and the movie is played back at actual speed. With **[High Frame Rate: Enable]** setting, no audio is recorded and the movie is played in slow motion at 29.97 fps (NTSC) /25.00 fps (PAL) when played back.

* 2: High Quality Intra cannot be selected.

Proxy movie

The recording format and movie recording size of the proxy movie are set automatically as shown in the table below depending on the recording format and movie recording size of the main movie.

Main recording format	Main movie recording size		Proxy recording format	Proxy movie recording size	
	Resolution	Compression format		Resolution	Compression format
RAW	RAW	Standard RAW Light RAW	XF-AVC S YCC420 8bit	2K-D	Standard LGOP Light LGOP
XF-HEVC S YCC422 10bit XF-HEVC S YCC420 10bit	4K-D 2K-D	Standard LGOP	XF-HEVC S YCC420 10bit	2K-D	
	4K-U Full HD			Full HD	
XF-AVC S YCC422 10bit	4K-D 2K-D	High Quality Intra* ¹ Standard Intra Light Intra* ¹ Standard LGOP	XF-AVC S YCC420 8bit	2K-D	
	4K-U Full HD			Full HD	
XF-AVC S YCC420 8bit	4K-D 2K-D	Standard LGOP		2K-D	
	4K-U Full HD			Full HD	

* The angle of view and frame rate of the proxy movie are the same as for the main movie.

* The image quality (Normal/Fine) of the proxy movie is fixed to Normal.

* When [1]Main [2]Proxy is set, a main movie of 100.00 fps or more is not possible.

* Even if recording of the proxy movie stops due to an error, recording of the main movie continues.

* If recording of the main movie stops, recording of the proxy movie also stops.

* When [1]Main [2]Proxy is set, the recording time of the main movie is indicated. Note that when [Rec. to multiple] is set, the recording time for the card with the least space is indicated.

* If there is no card 1, the time available for recording of the proxy movie is indicated, and proxy movie recording is possible.

* 1: Setting is not possible when [2K-D] or [Full HD] is set while [XF-AVC S YCC422 10bit] is set.

Recording format	Compression method	Resolution	Image quality	Frame rate (fps)					
				239.76	200.00	119.88	100.00	59.94	50.00
XF-HEVC S YCC420 10bit XF-AVC S YCC420 8bit	Standard LGOP Light LGOP	2K-D	Normal					Yes	Yes
		Full HD						Yes	Yes

Recording format	Compression method	Resolution	Image quality	Frame rate (fps)			
				29.97	25.00	24.00	23.98
XF-HEVC S YCC420 10bit XF-AVC S YCC420 8bit	Standard LGOP Light LGOP	2K-D	Normal	Yes	Yes	Yes	Yes
		Full HD		Yes	Yes		Yes

Built-in and external microphones

Built-in microphone: Monaural microphone

External microphone (External microphone IN terminal): 3.5 mm diameter stereo mini jack (3-pin)

Multi-function shoe input: Compatible with Directional Stereo Microphone DM-E1D

Estimated recording time, movie bit rate, file size, and card performance requirements

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

Recording format	Compression 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		
RAW	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.	2000	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 10bit	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 10bit	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-AVC S YCC420 8bit	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-AVC S YCC422 10bit	High Quality Intra	59.94	7 min.	28 min.	1 hr. 51 min.	1200	8585
		50.00	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	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					

* 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.

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

Recording Format	Compression method / RAW type	Frame rate (fps)	Card performance requirements
RAW	Standard RAW	59.94	CFexpress 2.0 Type-B [400MB/sec. or faster]
		50.00	CFexpress 2.0 Type-B [200MB/sec. or faster]
		29.97	CFexpress 2.0 Type-B [400MB/sec. or faster]
		25.00	CFexpress 2.0 Type-B [400MB/sec. or faster]
		24.00	CFexpress 2.0 Type-B [200MB/sec. or faster]
		23.98	
	Light RAW	59.94	CFexpress 2.0 Type-B [400MB/sec. or faster]
		50.00	CFexpress 2.0 Type-B [200MB/sec. or faster]
		29.97	CFexpress 2.0 Type-B [200MB/sec. or faster]
		25.00	CFexpress 2.0
		24.00	CFexpress 2.0
		23.98	
XF-HEVC S YCC422 10bit	Standard LGOP	59.94	CFexpress 2.0
		50.00	
		29.97	CFexpress 2.0
		25.00	
		24.00	
		23.98	
XF-HEVC S YCC420 10bit	Standard LGOP	59.94	CFexpress 2.0
		50.00	
		29.97	CFexpress 2.0
		25.00	
		24.00	
		23.98	

XF-AVC S YCC420 8bit	Standard LGOP	59.94	CFexpress 2.0
		50.00	
		29.97	CFexpress 2.0
		25.00	
		24.00	
		23.98	
XF-AVC S YCC422 10bit	High Quality Intra	59.94	CFexpress 2.0 Type-B [200MB/sec. or faster]
		50.00	CFexpress 2.0 Type-B [200MB/sec. or faster]
		29.97	CFexpress 2.0
		25.00	CFexpress 2.0
		24.00	CFexpress 2.0
		23.98	
	Standard Intra	59.94	CFexpress 2.0 Type-B [200MB/sec. or faster]
		50.00	CFexpress 2.0
		29.97	CFexpress 2.0
		25.00	CFexpress 2.0
		24.00	CFexpress 2.0
		23.98	
	Light Intra	59.94	CFexpress 2.0
		50.00	CFexpress 2.0
		29.97	CFexpress 2.0
		25.00	CFexpress 2.0
		24.00	CFexpress 2.0
		23.98	
	Standard LGOP	59.94	CFexpress 2.0
		50.00	
		29.97	CFexpress 2.0
		25.00	
		24.00	
		23.98	

4K-DCI Normal / 4K-UHD Normal

Recording format	Compression method	Frame rate (fps)	Total recording time (approx.)			Video bit rate (approx. Mbps)	File size (approx. MB/min.)
			64 GB	256 GB	1 TB		
XF-HEVC S YCC422 10bit	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 10bit	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-AVC S YCC420 8bit	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-AVC S YCC422 10bit	High Quality Intra	59.94	7 min.	28 min.	1 hr. 51 min.	1200	8585
		50.00	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	119.88	4 min.	18 min.	1 hr. 14 min.	1800	12877
		100.00	5 min.	22 min.	1 hr. 28 min.	1500	10731
		59.94	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	119.88	7 min.	28 min.	1 hr. 51 min.	1200	8585
		100.00	8 min.	34 min.	2 hr. 13 min.	1000	7155
		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	119.88	17 min.	1 hr. 8 min.	4 hr. 26 min.	500	3579
		100.00					
		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					

* 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.

4K-DCI Normal / 4K-UHD Normal

Recording format	Compression method	Frame rate (fps)	Card performance requirements
XF-HEVC S YCC422 10bit	Standard LGOP	119.88	CFexpress 2.0
		100.00	
		59.94	CFexpress 2.0
		50.00	
		29.97	CFexpress 2.0
		25.00	
		24.00	
		23.98	
XF-HEVC S YCC420 10bit	Standard LGOP	119.88	CFexpress 2.0
		100.00	
		59.94	CFexpress 2.0
		50.00	
		29.97	CFexpress 2.0
		25.00	
		24.00	
		23.98	
XF-AVC S YCC420 8bit	Standard LGOP	119.88	CFexpress 2.0
		100.00	
		59.94	CFexpress 2.0
		50.00	
		29.97	CFexpress 2.0
		25.00	
		24.00	
		23.98	

XF-AVC S YCC422 10bit	High Quality Intra	59.94	CFexpress 2.0 Type-B [200MB/sec. or faster]
		50.00	CFexpress 2.0 Type-B [200MB/sec. or faster]
		29.97	CFexpress 2.0
		25.00	CFexpress 2.0
		24.00	CFexpress 2.0
		23.98	
	Standard Intra	119.88	CFexpress 2.0 Type-B [400MB/sec. or faster]
		100.00	CFexpress 2.0 Type-B [200MB/sec. or faster]
		59.94	CFexpress 2.0 Type-B [200MB/sec. or faster]
		50.00	CFexpress 2.0
		29.97	CFexpress 2.0
		25.00	CFexpress 2.0
		24.00	CFexpress 2.0
		23.98	
	Light Intra	119.88	CFexpress 2.0 Type-B [200MB/sec. or faster]
		100.00	CFexpress 2.0 Type-B [200MB/sec. or faster]
		59.94	CFexpress 2.0
		50.00	CFexpress 2.0
		29.97	CFexpress 2.0
		25.00	CFexpress 2.0
		24.00	CFexpress 2.0
		23.98	
	Standard LGOP	119.88	CFexpress 2.0
		100.00	
		59.94	CFexpress 2.0
		50.00	
		29.97	CFexpress 2.0
		25.00	
		24.00	
		23.98	

2K-DCI Fine / Full HD Fine

Recording format	Compression method	Frame rate (fps)	Total recording time (approx.)			Video bit rate (approx. Mbps)	File size (approx. MB/min.)
			64 GB	256 GB	1 TB		
XF-HEVC S YCC422 10bit	Standard LGOP	59.94	2 hr. 49 min.	11 hr. 19 min.	44 hr. 12 min.	50	360
		50.00					
		29.97					
		25.00					
		24.00					
		23.98					
XF-HEVC S YCC420 10bit	Standard LGOP	59.94	4 hr. 2 min.	16 hr. 7 min.	63 hr. 1 min.	35	253
		50.00					
		29.97					
		25.00					
		24.00					
		23.98					
XF-AVC S YCC420 8bit	Standard LGOP	59.94	4 hr. 2 min.	16 hr. 7 min.	63 hr. 1 min.	35	253
		50.00					
		29.97					
		25.00					
		24.00					
		23.98					

XF-AVC S YCC422 10bit	Standard Intra	59.94	28 min.	1 hr. 53 min.	7 hr. 24 min.	300	2148
		50.00	34 min.	2 hr. 16 min.	8 hr. 52 min.	250	1791
		29.97	56 min.	3 hr. 47 min.	14 hr. 47 min.	150	1075
		25.00	1 hr. 8 min.	4 hr. 32 min.	17 hr. 44 min.	125	896
		24.00	1 hr. 10 min.	4 hr. 43 min.	18 hr. 28 min.	120	861
		23.98					
	Standard LGOP	59.94	2 hr. 49 min.	11 hr. 19 min.	44 hr. 12 min.	50	360
		50.00					
		29.97					
		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.

* When set to Full HD, 24.00 fps is not available.

2K-DCI Fine / Full HD Fine

Recording format	Compression method	Frame rate (fps)	Card performance requirements
XF-HEVC S YCC422 10bit	Standard LGOP	59.94	CFexpress 2.0
		50.00	
		29.97	
		25.00	
		24.00	
		23.98	
XF-HEVC S YCC420 10bit	Standard LGOP	59.94	CFexpress 2.0
		50.00	
		29.97	
		25.00	
		24.00	
		23.98	
XF-AVC S YCC420 8bit	Standard LGOP	59.94	CFexpress 2.0
		50.00	
		29.97	
		25.00	
		24.00	
		23.98	

XF-AVC S YCC422 10bit	Standard Intra	59.94	CFexpress 2.0
		50.00	CFexpress 2.0
		29.97	CFexpress 2.0
		25.00	CFexpress 2.0
		24.00	CFexpress 2.0
		23.98	
	Standard LGOP	59.94	CFexpress 2.0
		50.00	
		29.97	
		25.00	
		24.00	
		23.98	

2K-DCI Normal / Full HD Normal

Recording format	Compression method	Frame rate (fps)	Total recording time (approx.)			Video bit rate (approx. Mbps)	File size (approx. MB/min.)
			64 GB	256 GB	1 TB		
XF-HEVC S YCC422 10bit	Standard LGOP	239.76	42 min.	2 hr. 50 min.	11 hr. 5 min.	200	1433
		200.00					
		119.88	1 hr. 25 min.	5 hr. 40 min.	22 hr. 9 min.	100	718
		100.00					
		59.94	2 hr. 49 min.	11 hr. 19 min.	44 hr. 12 min.	50	360
		50.00					
		29.97					
		25.00					
		24.00					
		23.98					
XF-HEVC S YCC420 10bit XF-AVC S YCC420 8bit	Standard LGOP	239.76	1 hr. 0 min.	4 hr. 3 min.	15 hr. 50 min.	140	1004
		200.00					
		119.88	2 hr. 1 min.	8 hr. 5 min.	31 hr. 37 min.	70	503
		100.00					
		59.94	4 hr. 2 min.	16 hr. 7 min.	63 hr. 1 min.	35	253
		50.00					
		29.97					
		25.00					
		24.00					
		23.98					

XF-AVC S YCC422 10bit	Standard Intra	239.76	7 min.	28 min.	1 hr. 51 min.	1200	8585
		200.00	8 min.	34 min.	2 hr. 13 min.	1000	7155
		119.88	14 min.	56 min.	3 hr. 42 min.	600	4294
		100.00	17 min.	1 hr. 8 min.	4 hr. 26 min.	500	3579
		59.94	28 min.	1 hr. 53 min.	7 hr. 24 min.	300	2148
		50.00	34 min.	2 hr. 16 min.	8 hr. 52 min.	250	1791
		29.97	56 min.	3 hr. 47 min.	14 hr. 47 min.	150	1075
		25.00	1 hr. 8 min.	4 hr. 32 min.	17 hr. 44 min.	125	896
		24.00	1 hr. 10 min.	4 hr. 43 min.	18 hr. 28 min.	120	861
		23.98					
	Standard LGOP	239.76	42 min.	2 hr. 50 min.	11 hr. 5 min.	200	1433
		200.00					
		119.88	1 hr. 25 min.	5 hr. 40 min.	22 hr. 9 min.	100	718
		100.00					
		59.94	2 hr. 49 min.	11 hr. 19 min.	44 hr. 12 min.	50	360
		50.00					
		29.97					
		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 Full HD, 24.00 fps is not available.

2K-DCI Normal / Full HD Normal

Recording format	Compression method	Frame rate (fps)	Card performance requirements
XF-HEVC S YCC422 10bit	Standard LGOP	239.76	CFexpress 2.0
		200.00	
		119.88	CFexpress 2.0
		100.00	
		59.94	CFexpress 2.0
		50.00	
		29.97	
		25.00	
		24.00	
		23.98	
XF-HEVC S YCC420 10bit XF-AVC S YCC420 8bit	Standard LGOP	239.76	CFexpress 2.0
		200.00	
		119.88	CFexpress 2.0
		100.00	
		59.94	CFexpress 2.0
		50.00	
		29.97	
		25.00	
		24.00	
		23.98	

XF-AVC S YCC422 10bit	Standard Intra	239.76	CFexpress 2.0
		200.00	CFexpress 2.0
		119.88	CFexpress 2.0
		100.00	CFexpress 2.0
		59.94	CFexpress 2.0
		50.00	CFexpress 2.0
		29.97	CFexpress 2.0
		25.00	CFexpress 2.0
		24.00	CFexpress 2.0
		23.98	
	Standard LGOP	239.76	CFexpress 2.0
		200.00	
		119.88	CFexpress 2.0
		100.00	
		59.94	CFexpress 2.0
		50.00	
		29.97	
		25.00	
		24.00	
		23.98	

Proxy movie (2K-DCI Normal / Full HD Normal)

Recording format	Compression method	Frame rate (fps)	Total recording time (approx.)			Video bit rate (approx. Mbps)	File size (approx. MB/min.)
			64 GB	256 GB	1 TB		
XF-HEVC S YCC420 10bit XF-AVC S YCC420 8bit	Standard LGOP	59.94	8 hr. 44 min.	34 hr. 58 min.	136 hr. 39 min.	16	117
		50.00					
		29.97					
		25.00					
		24.00					
		23.98					
	Light LGOP	59.94	15 hr. 21 min.	61 hr. 25 min.	239 hr. 55 min.	9	67
		50.00					
		29.97					
		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.

* When set to Full HD, 24.00 fps is not available.

Proxy movie (2K-DCI Normal / Full HD Normal)

Recording format	Compression method	Frame rate (fps)	Card performance requirements
XF-HEVC S YCC420 10bit XF-AVC S YCC420 8bit	Standard LGOP	59.94	CFexpress 2.0
		50.00	
		29.97	
		25.00	
		24.00	
		23.98	
	Light LGOP	59.94	CFexpress 2.0
		50.00	
		29.97	
		25.00	
		24.00	
		23.98	

Autofocus

Focusing method: Dual Pixel CMOS AF

Focusing brightness range

Still photo shooting

EV -7.5 to 21 (with an f/1.2 lens,* center AF point, vertical-line detection, One-Shot AF at room temperature, and ISO 100)

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

Movie recording

- 4K30p: EV -5.5 to 21
- Full HD30p: EV -5.0 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.)
* Except RF lenses with a Defocus Smoothing (DS) coating

Focusing operation

	Still photo shooting	Movie recording
AF operation	• One-Shot AF • Servo AF	• One-Shot AF • Movie Servo AF
Manual focus (MF)	Supported	Supported

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. 975 zones (39×25)

* May vary depending on settings.

Selectable positions for AF point

Focusing area		Horizontal: Approx. 90%, Vertical: Approx. 100%
Numbers of positions	Still photos	Max. 4368 positions (78×56)
	Movies	Max. 3354 positions (78×43)

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

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

Eye control

This feature is for still photo shooting.

Detection method: Line-of-sight detection using corneal reflections (Purkinje images) acquired using infrared LEDs and an image of the user's pupil

Viewfinder

Type: OLED color electronic viewfinder

Screen size: 0.64 inch

Dot count: Approx. 9,440,000 dots

Magnification / Angle of view: Approx. 0.90x / Approx. 41.4° (at an aspect ratio of 3:2 and with a 50 mm lens at infinity, -1 m^{-1})

Coverage: Approx. 100% (at L image size, an aspect ratio of 3:2, and approx. 25 mm eyepoint)

Eyepoint: Approx. 25 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 LCD screen

Screen size: 3.2-inch (aspect ratio of 3:2)

Dot count: Approx. 2,100,000 dots

Angle of view: Approx. 170° vertically and horizontally

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

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

Touch-screen: Capacitive sensing

LCD Panel

Type: Reflective memory LCD

Display format: Dot-matrix display

Dot count: 128×128 dots

HDMI output

Output terminal: HDMI output terminal (Type A)

* HDMI CEC not supported

HDMI resolution: Auto / 1080p / 1080i

Exposure control

Metering functions under various shooting conditions

Item		Still photo shooting	Movie recording
Metering sensor		Based on the image sensor output signals	
		6144-zone (96×64) metering*1	DCI: 4800-zone (96×50) metering*1 UHD: 5184-zone (96×54) metering*1
Metering mode	Evaluative metering	Yes	Yes
	Partial metering	Yes * Approx. 10.0% in the center of the screen*3	
	Spot metering*2	Yes * Approx. 5.0% in the center of the screen*3	
	Multi-spot metering	—	
	Center-weighted average	Yes	—
Metering brightness range (at room temperature, ISO 100)		EV -3 to 20	EV -1 to 20
Metering timer		4 sec. / 8 sec. / 16 sec. / 30 sec. / 1 min. / 10 min. / 30 min.	
Exposure beyond range warning		Blinking of shutter speed and aperture value	
Flash metering control	Flash metering	Based on the image sensor output signals 384-zone (24×16) flash metering*1	
	Metered manual flash Manual	—	

* 1: Same applies when [1.6x (crop)] or [Movie cropping: Enable] is set.

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

* 3: When set to Full-frame. Values differ for 1.6x (crop).

ISO speed (recommended exposure index) in still photo shooting

Manual ISO speed setting for still photos

	ISO speed
Normal ISO speed	ISO 100–102400
Expanded ISO speed	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 **[H1/H2] HDR shooting (PQ): HDR PQ** is set.

Manual ISO speed setting range for still photos

ISO speed range	ISO speed
Minimum	L (equivalent to ISO 50) to H1 (equivalent to ISO 204800)
Maximum	ISO 100 to H2 (equivalent to ISO 409600)

ISO Auto setting range for still photos

Auto range	ISO speed
Minimum	ISO 100–51200
Maximum	ISO 200–102400

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
Fv / P / Av / M / Tv	ISO 100 ^{*1+2} –102400 ^{*2}	ISO 100 ^{*1+2} –6400 ^{*2}	ISO 100 ^{*1+2} –1600 ^{*2}
BULB	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 most close 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)

	Custom Picture	ISO speed
Normal ISO speed	Off*1	ISO 100–32000
	Canon 709 / PQ / HLG	ISO 400–32000
	Canon Log 2 / Canon Log 3	ISO 800–32000
	BT.709 Standard	ISO 160–32000
Expanded ISO speeds*3*4	Off*2	H (equivalent to ISO 40000, 51200, 64000, 80000, or 102400) H1 (equivalent to ISO 204800)
	Canon 709 / PQ / HLG	L (equivalent to ISO 100, 125, 160, 200, 250, or 320) H (equivalent to ISO 40000, 51200, 64000, 80000, or 102400) H1 (equivalent to ISO 204800)
	Canon Log 2 / Canon Log 3	L (equivalent to ISO 100, 125, 160, 200, 250, 320, 400, 500, or 640) H (equivalent to ISO 40000, 51200, 64000, 80000, or 102400) H1 (equivalent to ISO 204800)
	BT.709 Standard	L (equivalent to ISO 100 or 125) H (equivalent to ISO 40000, 51200, 64000, 80000, or 102400) H1 (equivalent to ISO 204800)

* 1: The lower end of the ISO speed range starts from ISO 200 when [Highlight tone priority] is set.

* 2: Expanded ISO speeds are not available when [HDR shooting (PQ): HDR PQ] is set.

* 3: Expanded ISO speeds are not available in RAW movie recording or when [Highlight tone priority] is set.

* 4: When a High Frame Rate (239.76 / 200.00 / 119.88 / 100.00 fps, with/without audio) is set, expanded ISO speeds are up to H (ISO 102400).

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

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

	Custom Picture	ISO speed
Normal ISO speed	Off*1	ISO 100–32000
	Canon 709 / PQ / HLG	ISO 400–32000
	Canon Log 2 / Canon Log 3	ISO 800–32000
	BT.709 Standard	ISO 160–32000
Expanded ISO speeds*3*4	Off*2	H (equivalent to ISO 40000, 51200, 64000, 80000, or 102400) H1 (equivalent to ISO 204800)
	Canon 709 / PQ / HLG	
	Canon Log 2 / Canon Log 3	
	BT.709 Standard	

* 1: The lower end of the ISO speed range starts from ISO 200 when [Highlight tone priority] is set.

* 2: Expanded ISO speeds are not available when [HDR shooting (PQ): HDR PQ] is set.

* 3: Expanded ISO speeds are not available in RAW movie recording or when [Highlight tone priority] is set.

* When a High Frame Rate (239.76 / 200.00 / 119.88 / 100.00 fps, with/without audio) is set, expanded ISO speeds are up to H (ISO 102400).

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

Manual ISO speed setting range for movies

ISO speed range	ISO speed
Minimum	ISO 100–32000, H (equivalent to ISO 51200)
Maximum	ISO 200–32000, H (equivalent to ISO 51200, 102400, or 204800)

Maximum ISO Auto setting for movies

	ISO speed
Max for Auto	ISO 6400–32000, H (equivalent to ISO 51200, 102400, or 204800)

Shutter

Still photo shooting

Type:

Electronically controlled focal-plane shutter

Rolling shutter, using the image sensor

Shutter mode: Mechanical shutter / Electronic 1st-curtain / Electronic shutter

* Flash photography is supported with all shutter modes.

Shutter speed

Shutter mode	Setting range
Mechanical shutter	1/8000–30 sec., bulb
Electronic 1st-curtain	
Electronic shutter*1	1/64000*2–30 sec., bulb

* 1: Shutter speeds of 1/10000 sec. or faster are only available in Tv or M mode (up to 1/8000 sec. in Fv, P, or Av mode).

* 2: With Focus bracketing, flash photography, or [ISO speed/Shutter speed] or [Shutter speed] is set for [Same expo. for new aperture], the maximum shutter speed limit will be 1/8000 sec.

Flash sync speed

Shutter mode	Sync speed		
	EL/EX series Speedlites		Non-Canon flash units
	Full-frame	1.6x (crop)	
Mechanical shutter	1/200 sec.	1/250 sec.	1/200 sec.
Electronic 1st-curtain	1/250 sec.	1/320 sec.	1/250 sec.
Electronic shutter	1/320 sec.	1/400 sec.	1/320 sec.

Movie recording

Type: Rolling shutter, using the image sensor

Shutter speed: 1/8000–1/25*1*2 sec.

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

* 1: In normal movie recording, the minimum speed varies depending on the recording mode and frame rate.

* 2: The minimum speed is 1/250 sec. (NTSC) / 1/200 sec. (PAL) when the frame rate is set to 239.76 or 200.00 fps, and 1/125 sec. (NTSC) / 1/100 sec. (PAL) when the frame rate is set to 119.88 or 100.00 fps.

Image stabilization (IS mode): Provided

Drive

Drive mode and continuous shooting speed

[Max. approx.]

Drive mode	AF Operation	Shooting conditions	Mechanical shutter	Electronic 1st-curtain	Electronic shutter
High-speed continuous shooting+ 	One-Shot AF Servo AF	—	12 shots/sec.	12 shots/sec.	40 shots/sec.
		Flash photography (E-TTL each shot)	—	—	15 shots/sec.
		Flash photography (Fixed to E-TTL 1st shot)	12 shots/sec.	12 shots/sec.	30 shots/sec.
		Anti-flicker shooting	5.1 shots/sec.	9.3 shots/sec.	20 shots/sec.
High-speed continuous shooting 	One-Shot AF Servo AF	—	6.2 shots/sec.	8.0 shots/sec.	30 shots/sec.
		Flash photography (E-TTL each shot)	4.7 shots/sec.	6.5 shots/sec.	15 shots/sec.
		Flash photography (Fixed to E-TTL 1st shot)	6.2 shots/sec.	8.0 shots/sec.	30 shots/sec.
		Anti-flicker shooting	5.1 shots/sec.	6.3 shots/sec.	20 shots/sec.
Low-speed continuous shooting 	One-Shot AF Servo AF	—	3.0 shots/sec.	3.0 shots/sec.	5.0 shots/sec.
		Flash photography (E-TTL each shot)	3.0 shots/sec.	3.0 shots/sec.	5.0 shots/sec.
		Flash photography (Fixed to E-TTL 1st shot)	3.0 shots/sec.	3.0 shots/sec.	5.0 shots/sec.
		Anti-flicker shooting	3.0 shots/sec.	3.0 shots/sec.	5.0 shots/sec.
Self-timer: 10 sec.			Yes	Yes	Yes
Self-timer: 2 sec.			Yes	Yes	Yes
Self-timer: Continuous			Yes	Yes	Yes

External flash

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

Sync terminal: Provided

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

Playback

Item	Still photos	Movies
AF point display	Yes	
Playback grid	Off / 3×3 / 6×4 / 3×3+diag	
Magnified view	• Magnification (approx.): 2× / 4× / 8× / 10× / Actual size / Same as last • Magnified position: From center / From focus point • Maintain position: Enable / Disable	
Set image search conditions*4	Search conditions Rating / Date / Folder / Protect / 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*5	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	
Cropping	Yes	
Resizing	Yes	

Frame grab from movies

Individual frames in 4K movies recorded with the camera can be saved as still photos (JPEG / HEIF).

4K	DCI	Approx. 8.8 megapixels (4096×2160)
	UHD	Approx. 8.3 megapixels (3840×2160)

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

* The camera cannot frame grab still photos from RAW movies and movies recorded when **[CP function: On]** is set.

* In-camera resizing or cropping and in-camera upscaling are not available for frame-grabbed still photos.

Print order (DPOF)

Compliant with DPOF Version 1.1

External interface

Digital terminal

Terminal type	USB Type-C
Transmission	Equivalent to USB 10 Gbps (SuperSpeed Plus USB / USB 3.2 Gen 2)
Applications	• For computer communication / smartphone communication • USB battery charging / camera power supply

Ethernet terminal: RJ-45 terminal

HDMI output terminal: HDMI terminal (Type A)

* Resolution switches automatically

* HDMI CEC not supported

External microphone IN terminal: 3.5 mm diameter stereo mini jack (3-pin)

Headphone terminal: 3.5 mm diameter stereo mini-jack

Remote control terminal: N3 type terminal

Power source

Battery

Compatible battery packs	LP-E19
Quantity used	1

Battery information

Remaining capacity	In 1% increments Indicated by a battery check mark.
Shutter count	Supported
Recharge performance	3 levels

USB battery charging and camera power supply: Using USB Power Adapter PD-E2

AC power source

AC Adapter AC-E19 and DC Coupler DR-E19

Number of shots available

Shooting method	Temperature	Available shots (approx.)	
		Power saving*1	Smooth*2
Viewfinder shooting*3	+23°C / 73°F	700	510
On-screen shooting*4		1330	1130

* 1: Based on CIPA standards.

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

* 3: When set to **[Viewfinder]**.

* 4: When set to **[Screen]**.

* With a new, fully charged LP-E19

* 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. 9 hr. 00 min.
Time available for Live View shooting			+23°C / 73°F	Approx. 8 hr. 00 min.
Time available for movie recording* ¹	RAW	- Standard RAW 59.94 / 50.00 fps	+23°C / 73°F	Approx. 2 hr. 20 min.
			0°C / 32°F	Approx. 2 hr. 00 min.
	4K DCI	- Standard LGOP 59.94 / 50.00 fps	+23°C / 73°F	Approx. 2 hr. 20 min.
			0°C / 32°F	Approx. 2 hr. 00 min.
	Full HD	- Standard LGOP 29.97 / 25.00 fps	+23°C / 73°F	Approx. 5 hr. 00 min.
			0°C / 32°F	Approx. 4 hr. 30 min.
Time available for movie playback (normal playback)	4K DCI	- Standard LGOP 59.94 / 50.00 fps	+23°C / 73°F	Approx. 5 hr. 30 min.

* When using a new, fully charged LP-E19 and using the screen.

* 1: When [Movie Servo AF: Disable] and [Movie cropping: Disable] are set.

Dimensions and weight

Dimensions

(W) × (H) × (D)	Approx. 157.6×149.5×87.3 mm / Approx. 6.20×5.89×3.44 in.
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* Based on CIPA guidelines.

Weight

Body (including battery and card 1) * Based on CIPA guidelines.	Approx. 1115 g / Approx. 39.33 oz.
Body only	Approx. 920 g / Approx. 32.45 oz.

* Not including body cap , eye cup, or shoe cover.

Operating environment

Operating temperature: 0–+45°C / 32–113°F

Operating humidity: 85% or less

GPS features

Position data	Latitude, longitude, elevation, and Coordinated Universal Time (UTC)
Position update interval (positioning timing)	Every sec. / Every 5 sec. / Every 10 sec. / Every 15 sec. / Every 30 sec. / Every min. / Every 2 min. / Every 5 min.
Supported GPS signals	Supports the following GPS signals • GPS satellites (American) • GLONASS satellites (Russian) • MICHIBIKI Quasi-Zenith Satellites (Japanese) * Error correction functions using multiple MICHIBIKI satellites are not supported.

Wi-Fi (wireless LAN)

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

Wi-Fi standards (equivalent)	Transmission method	RU TYPE	Maximum link speed	
			5 GHz band / 6 GHz band	2.4 GHz band
IEEE 802.11ax 2×2 MIMO	OFDM modulation (OFDMA)	996-tone	1201 Mbps	—
		484-tone	574 Mbps	—
		242-tone	229 Mbps	229 Mbps
		106-tone	100 Mbps	100 Mbps
		52-tone	47 Mbps	47 Mbps
		26-tone	24 Mbps	24 Mbps
IEEE 802.11ax		996-tone	601 Mbps	—
		484-tone	287 Mbps	—
		242-tone	115 Mbps	115 Mbps
		106-tone	50 Mbps	50 Mbps
		52-tone	24 Mbps	24 Mbps
		26-tone	12 Mbps	12 Mbps
IEEE 802.11ax 2×2 MIMO	OFDM modulation (CSMA/CA)	—	1201 Mbps	287 Mbps
IEEE 802.11ax			601 Mbps	143 Mbps
IEEE 802.11ac 2×2 MIMO			867 Mbps	—
IEEE 802.11ac			433 Mbps	—
IEEE 802.11n 2×2 MIMO			300 Mbps	144 Mbps
IEEE 802.11n			150 Mbps	72 Mbps
IEEE 802.11a			54 Mbps	—
IEEE 802.11g			—	54 Mbps
IEEE 802.11b	DSSS modulation	—	—	11 Mbps

* Compatible with MIMO (multiple-input and multiple-output) 2×2

Transmission frequency (Center frequency)

2.4 GHz band

Frequency	2412 to 2462 MHz
Channels	1 to 11 ch

5 GHz band

Frequency	5180 to 5825 MHz
Channels	36 to 165 ch

* Specifications vary by country/region.

6 GHz band

Frequency	5955 to 7095 MHz
Channels	1 to 229 ch

* Specifications vary by country/region.

Authentication and data encryption methods

2.4 GHz band / 5 GHz band

Connection method	Authentication	Encryption
Camera access point	Open	Disable
	WPA2 / WPA3-Personal	AES
Infrastructure	Open	Disable
	Enhanced Open	AES
	WPA / WPA2 / WPA3-Personal	AES
	WPA / WPA2 / WPA3-Enterprise	AES
	WPA3-Enterprise 192 bit	AES

6 GHz band

Connection method	Authentication	Encryption
Infrastructure	Enhanced Open	AES
	WPA3-Personal	AES
	WPA3-Enterprise	AES
	WPA3-Enterprise 192 bit	AES

Bluetooth

Standards compliance: Bluetooth Specification Version 5.3 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.