Canon

EOS R50 V

Type	
Type	Digital interchangeable lens mirrorless camera
Image Processor	DIGIC X
Recording Media	(One) SD card slot • Compatible with UHS-II/UHS-I/UHS speed class/SD speed class • Eye-Fi cards and Multimedia cards (MMC) are not supported.
Compatible Lenses	Canon RF lenes (including RF-S lenses) Canon RF-S3.9mm F3.5 STM Dual Fisheye lens and RF-S7.8mm F4 STM Dual lens * 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	APS-C CMOS sensor (compatible with Dual Pixel CMOS AF)
Effective Pixels	Approx. 24.0 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	Self Cleaning Sensor Unit not provided. Manual cleaning (by hand) not supported. 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 during focus bracket shooting.
Recording System	
Recording Format	Compliant to Design rule for Camera File system 2.0 and Exif 2.31* *Supports time offset information
Image Format	JPEG (.JPG), HEIF (.HIF), RAW, C-RAW (.CR3) Movies: XF-HEVC S YCC422 10 bit XF-HEVC S YCC420 10 bit XF-AVC S YCC422 10 bit XF-AVC S YCC420 8 bit *1: When a movie is recorded with [Add CP file: On] set when [Custom Picture] is active, a “.CPF” file will be created.
Still image resolution	RAW, C-RAW -- 24.0 MP (6000 x 4000) Large (L) -- 24.0 MP (6000 x 4000) Medium (M) -- Approx. 10.6 MP (3984 x 2656) S1 -- Approx. 5.9 MP (2976 x 1984) S2 -- Approx. 3.8 MP (2400 x 1600)

File Size

	Image Quality	File Size [Approx. MB]	Available Shots [Approx.]*1
JPEG*2	L (fine)	8.7	14040
	L (Normal)	4.6	26460
	M (fine)	4.7	25740
	M (Normal)	2.6	45600
	S1 (Fine)	3.1	39020
	S1 (Normal)	1.8	64490
	S2	1.8	65020
HEIF*3	L (fine)	9.0	13470
	L (Normal)	6.8	17550
	M (fine)	5.2	22540
	M (Normal)	4.1	28670
	S1 (Fine)	3.5	32870
	S1 (Normal)	2.9	40400
	S2	1.9	56440
RAW*2	RAW	27.0	4570
	C-RAW	14.0	8920
RAW+JPEG*2	RAW + L (fine)	27.0 + 8.7	3440
	C-RAW + L (fine)	14.0 + 8.7	5450
RAW+HEIF*3	RAW + L (fine)	29.9 + 9.0	3140
	C-RAW + L (fine)	16.9 + 9.0	4730

*1: Number of shots using a 128 GB card that conforms to Canon testing standards.

*2: With HDR PQ disabled

*3: With HDR PQ enabled

* File sizes are determined based on Canon testing standards.

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

<table>
<tr><td>Maximum Burst</td><td>
<table>
<tr><th></th><th>Image Quality</th><th>Electronic 1st-curtain (Approx. 12 shots/sec.)</th><th>Electronic shutter (Approx. 15 shots/sec.)</th></tr>
<tr><td rowspan="4">JPEG*2</td><td>L (fine)</td><td>140</td><td>95</td></tr>
<tr><td>M (fine)</td><td>140</td><td>95</td></tr>
<tr><td>S1 (Fine)</td><td>140</td><td>95</td></tr>
<tr><td>S2</td><td>140</td><td>95</td></tr>
<tr><td rowspan="4">HEIF*3</td><td>L (fine)</td><td>130</td><td>91</td></tr>
<tr><td>M (fine)</td><td>130</td><td>91</td></tr>
<tr><td>S1 (Fine)</td><td>130</td><td>91</td></tr>
<tr><td>S2</td><td>130</td><td>91</td></tr>
<tr><td rowspan="2">RAW*2</td><td>RAW</td><td>59</td><td>36</td></tr>
<tr><td>C-RAW</td><td>120</td><td>79</td></tr>
<tr><td rowspan="2">RAW+JPEG*2</td><td>RAW + L (fine)</td><td>36</td><td>27</td></tr>
<tr><td>C-RAW + L (fine)</td><td>110</td><td>66</td></tr>
<tr><td rowspan="2">RAW+HEIF*3</td><td>RAW + L (fine)</td><td>23</td><td>22</td></tr>
<tr><td>C-RAW + L (fine)</td><td>49</td><td>47</td></tr>
</table>
*1: Number of shots using a 128 GB UHS-II card that conforms to Canon testing standards.
*2: With HDR PQ disabled
*3: With HDR PQ enabled
* Maximum burst as measured under conditions conforming to Canon testing standards (One-Shot AF mode, High-speed continuous shooting +, ISO 100, Standard Picture Style, and Room temperature: 23°C / 73°F).
File size varies by shooting conditions (such as still photo aspect ratio, subject, ISO speed, Picture Style, and Custom Functions). Number of shots available and maximum burst varies depending on shooting conditions (including still photo aspect ratio, subject, memory card brand, ISO speed, Picture Style, and Custom Functions)
</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 (sill images)</td><td>sRGB
(HDR PQ images — BT.2020)</td></tr>
</table>

Picture Style (Set via Color Mode menu or Color Mode button)	(1) Auto (2) Standard (3) Portrait (4) Landscape (5) Fine Detail (6) Neutral (7) Faithful (8) Monochrome (9) User Defined 1–3 * Picture Style files can be registered to user-defined settings 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*2 (8) Manual (9) Color temperature 1 (10) Color temperature 2 Approx. 2500K-10000K* (11) Color temperature 2 Set in 100K increments (12) Color temperature 4 *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. * Can also be changed during movie recording when Creative (Movie) Zone is set. * Color temperature 1–4 can be switched with [Customize buttons for shooting: Switch color temperature]
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 not supported)
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. 651 zones (31 x 21) Movies: Max. 527 zones (31 x17)
Selectable Positions for AF Point	AF area: Horizontal: Approx. 90% x Vertical: Approx. 100% Stills: Max. 4503 positions (79 x 57) Movies: Max 3713 positions (79 x 47)
Focusing brightness range (still photo shooting)	EV -5.0 to 20 (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)	EV -2.5 to 20 (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.

<table>
<tr><td>Available AF Areas (still images and movies)</td><td>• 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</td></tr>
<tr><td>Available Subject Detection (still images and movies)</td><td>• Auto
• People
• Animals (dogs / cats / birds/ horses)
• Vehicles (motorsports cars / motorcycles / airplanes / trains)
* Certain types of animals or vehicles may not be detected, depending on shape and appearance</td></tr>
<tr><td>Eye Detection</td><td>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 AF area.

Left/right eye detection: Supported (refers to subject's left/right eye)</td></tr>
<tr><td colspan="2">Customization</td></tr>
<tr><td>Available Functions</td><td>Dial direction during Tv/Av; Control ring rotation direction; Customize buttons; Customize dials</td></tr>
<tr><td>Customize Buttons
Customizable Dials/
Control Ring</td><td>
<table>
<tr><th>Item</th><th>Details</th><th>Still Photos</th><th>Movie</th></tr>
<tr><td>Customize buttons for shooting</td><td>Change assignment of functions to camera controls</td><td colspan="2">Depends on setting</td></tr>
<tr><td rowspan="2">Shutter button function for movies</td><td>Half Press</td><td rowspan="2"></td><td rowspan="2">Yes</td></tr>
<tr><td>Full Press</td></tr>
<tr><td>Customize dials / control ring</td><td>Change assignment of functions to camera controls</td><td colspan="2">Depends on setting</td></tr>
<tr><td>Touch Shutter</td><td>Disable / Enable</td><td>Yes</td><td></td></tr>
<tr><td rowspan="4">Multi-function lock</td><td>Mail Dial</td><td rowspan="4">Yes</td><td rowspan="4">Yes</td></tr>
<tr><td>Control Dial</td></tr>
<tr><td>Touch Control</td></tr>
<tr><td>Control Ring</td></tr>
<tr><td>Focus Ring / Control Ring</td><td>Use as focus ring /
Use as control ring</td><td>Yes</td><td>Yes</td></tr>
<tr><td rowspan="2">Camera / Remote optical zoom speed</td><td>Standby</td><td>Yes</td><td>Yes</td></tr>
<tr><td>Recording</td><td>Yes</td><td></td></tr>
<tr><td rowspan="2">Lens optical zoom speed</td><td>Standby</td><td>Yes</td><td>Yes</td></tr>
<tr><td>Recording</td><td>Yes</td><td></td></tr>
</table>
</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>
</table>

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. 5.8% of the area at the center of the screen)
(3) Spot metering (approx. 2.9% of the area at the center of the screen)
(4) Center-weighted average metering
* Movie recording: Evaluative metering only

Metering Range

Still Photo Shooting: EV -5 to 20
Movie Recording: EV -2.5 to 20 (4K) / EV -3.0 to 20 (Full HD)

Exposure Modes

Still photo shooting:
- Full Auto (A+), P, Tv, Av, M
- Self-portrait, Portrait, Smooth skin, Panoramic shot, Food, Handheld Night Scene

Movie recording:
- Movie auto exposure, Shutter-priority (Tv), Aperture-priority (Av), Movie Manual exposure

ISO Speed Range

Manually Set

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

- When set to [Highlight tone priority], the available manual setting range is ISO 200–32000.
- Expanded ISO speeds cannot be set in HDR mode or for HDR shooting (HDR PQ).

ISO Auto setting range for still photo shooting: User-set Auto ISO maximum: 400 – 32000

ISO Auto details for still photo shooting

Shooting mode		No Flash	Using Flash	
			Compatible Lens	Incompatible Lens
Creative Zone	P / Tv / Av / M (other than bulb)	ISO 100*1*2–32000*2	ISO 100–6400*2	ISO 100*1*2–1600*2
	M (bulb)	ISO 400*3	ISO 400*3	
Basic Zone	Scene Intelligent Auto / Hybrid Auto	ISO 100–6400	ISO 100–6400	ISO 100–3200*4
	Special Scene	Varies by shooting mode		
	Creative Filters	Varies by shooting mode		

*1: ISO 200 minimum when set to [Highlight tone priority: Enable/Enhanced].
*2: Varies depending on the [Max for Auto] settings.
*3: If outside the setting range, changed to the value closest to ISO 400.
*4: When using the built-in flash. ISO 1600 when using an external flash unit.

Exposure Compensation

User-set	±3 stops (in 1/3-stop increments)
AEB	±3 stops (in 1/3-stop increments)

AE Lock

(1) Automatic AE lock
- In One-Shot AF mode, AE is locked as soon as subjects are in focus.

(2) User-applied AE lock
- By using the AE Lock button in P, Tv, Av, and M mode.

Toggling: Press again to cancel and once more to refresh.
- Enabled in all metering modes.

Shutter	
Type	Electronically controlled focal-plane shutter. Rolling shutter, using the image sensor. (1) Electronic first curtain (2) Electronic shutter * 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-step increments Electronic shutter: 1/8000th sec – 30 seconds, in 1/3-step increments
X-sync Speed	Elec. 1st-curtain: 1/250 sec. (flash not possible with Electronic shutter)
Shutter Release	Soft-touch electromagnetic release
Self Timer	10-sec. delay, 2-sec. delay, Continuous
Image Stabilization (IS mode)	
Still Photo IS	In-body IS not provided. (lens optical Image Stabilization supported)
External Speedlite	
E-TTL flash metering:	Evaluative (Face Priority) / Evaluative / Average
Accessory Shoe	Canon Multi-function accessory shoe • Optional Canon AD-E1 adapter required for conventional shoe-mount flashes and accessories • No traditional flash contacts on accessory shoe
E-TTL balance	Ambience priority, standard, flash priority
Flash Exposure Compensation	±3 stops (in 1/3-stop increments)
Continuous flash control	E-TTL each shot / E-TTL 1st shot

Drive System

Drive Modes and Continuous Shooting Speed (all maximum Drive speeds approximate)

Drive Modes	Operating Modes	Electronic 1st curtain	Electronic shutter
Single Shooting		Yes	Yes
High-speed Continuous Shooting +	**One-Shot AF / Servo AF**	12 shots/sec.*1*2	15 shots/sec.*2
High-speed Continuous Shooting	**One-Shot AF / Servo AF**	7.6 shots/sec.*2	15 shots/sec.*2
Low-speed Continuous Shooting	**One-Shot AF / Servo AF**	3.0 shots/sec.	5.0 shots/sec.
Self-timer	**10 sec.**	Yes	Yes
	2 sec.	Yes	Yes
	Continuous shooting	Yes	Yes

*1: AE, flash metering, and WB do not change after the first shot in flash photography.

*2: 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 or anti-flicker shooting.

* With certain lenses, zooming during continuous shooting with electronic shutter may cause changes in exposure even at the same f/number. Refer to the separate lens list for the applicable lenses. (Note that even with a zoom lens that is not listed in the list may result in exposure changes or flickering if sudden zooming is performed.)

HDR Shooting

Still-image HDR shooting:

- HDR PQ (HEIF images)
- HDR mode (final image composited from three initial images)
- HDR PQ and HDR can be combined

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

According to setting of movie recording format
* Cannot be set for XF-AVC S YCC420 8 bit

Continuous HDR Shooting (still images)

1 shot only / Every shot (HDR mode shooting only)

Video Shooting

Video resolution

4K (UHD only; 3840 x 2160 (16:9) — oversampled from 6K recording
4K Crop (3840 x 2160; not oversampled)
Full HD (1920 x 1080)

RAW video recording

Not Available

Video Shooting continued

Video compression	LongGOP (equivalent to IPB); Intra (= All-I) for Time Lapse video recording
Video Gamma, Color Space options (in CP/Custom Picture menu)	Canon 709 Canon Log 3 PQ (HDR PQ; BT.2020 HLG (BT.2020) BT.709 Standard
Vertical video recording	Available (video shooting info display can be rotated, for shooting & playback) Vertical tripod socket on grip side of camera Auto Level display available during video recording
Audio recording	Built-in microphone; separate Left & Right Stereo inputs • Noise detection microphone (for AF focus drive noise, white/floor noise) • 16-bit/2 CH or 24-bit/4 CH recording possible (2 channel for built-in mic) • 48 kHz sampling frequency 3.5mm stereo mini-jack (3-pin) for external mics Digital mic input at Multi-function Shoe (Canon DM-E1D Stereo MIcrophone, etc.) Auto or Manual sound recording levels (64 manual levels available) 3.5mm Headphone terminal (stereo mini-jack)
File Format	**Normal Movies**

HDR PQ	OFF	ON
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)
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
Audio	AAC 48 kHz / 16 bit / 2CH * 4 channel input: Not supported	

Video Shooting continued

Estimated Recording time, Movie Bit Rate and File Size for 4K (Up to 29.97)

Movie Recording Size			Total Recording Time (approx.)			Bit Rate / File Size (approx.)	Card Performance requirements
Movie Recording	Frame Rate	Compression method	64 GB	128 GB	512 GB		
XF-HEVC S YCC422 10 bit	29.97 fps 25.00 fps 23.98 fps	Standard LGOP	1 hr. 3 min.	2 hr. 6 min.	8 hr. 24 min.	135 Mbps 968 MB/min.	UHS Speed Class 3 or higher
XF-HEVC S YCC420 10 bit	29.97 fps 25.00 fps 23.98 fps	Standard LGOP	1 hr. 25 min.	2 hr. 50 min.	11 hr. 20 min.	100 Mbps 718 MB/min.	UHS Speed Class 3 or higher
XF-AVC S YCC422 10 bit	29.97 fps 25.00 fps 23.98 fps	Standard LGOP	56 min.	1 hr. 53 min.	7 hr. 34 min.	150 Mbps 1075 MB/min.	UHS Speed Class 3 or higher
XF-AVC S YCC420 8 bit	29.97 fps 25.00 fps 23.98 fps	Standard LGOP	1 hr. 25 min.	2 hr. 50 min.	11 hr. 20 min.	100 Mbps 718 MB/min.	UHS Speed Class 3 or higher

* Video bit rate indicates video only; audio and metadata are not included.
* When [Audio format: AAC / 16bit / 2CH] is set.
* Movie recording stops when the maximum recording time per movie is reached.

Estimated Recording time, Movie Bit Rate and File Size for 4K Crop (50.00/59.94 fps)

Movie Recording Size			Total Recording Time (approx.)			Bit Rate / File Size (approx.)	Card Performance requirements
Movie Recording	Frame Rate	Compression method	64 GB	128 GB	512 GB		
XF-HEVC S YCC422 10 bit	59.94 fps 50.00 fps	Standard LGOP	37 min.	1 hr. 15 min.	5 hr. 3 min.	225 Mbps 1612 MB/min.	Video Speed Class V60 or higher
XF-HEVC S YCC420 10 bit	59.94 fps 50.00 fps	Standard LGOP	56 min.	1 hr. 53 min.	7 hr. 34 min.	150 Mbps 1075 MB/min.	UHS Speed Class 3 or higher
XF-AVC S YCC422 10 bit	59.94 fps 50.00 fps	Standard LGOP	34 min.	1 hr. 8 min.	4 hr. 32 min.	250 Mbps 1791 MB/min.	Video Speed Class V60 or higher
XF-AVC S YCC420 8 bit	59.94 fps 50.00 fps	Standard LGOP	56 min.	1 hr. 53 min.	7 hr. 34 min.	150 Mbps 1075 MB/min.	UHS Speed Class 3 or higher

* Video bit rate indicates video only; audio and metadata are not included.
* When [Audio format: AAC / 16bit / 2CH] is set.
* Movie recording stops when the maximum recording time per movie is reached.

Video Shooting continued

Estimated Recording time, Movie Bit Rate and File Size for Full HD

Movie Recording Size			Total Recording Time (approx.)			Bit Rate / File Size (approx.)	Card Performance requirements
Movie Recording	Frame Rate	Compression method	64 GB	128 GB	512 GB		
XF-HEVC S YCC422 10 bit	119.88 fps 100.00 fps	Standard LGOP	1 hr. 25 min.	2 hr. 50 min.	11 hr. 20 min.	100 Mbps 718 MB/min.	UHS Speed Class 3 or higher
	59.94 fps 50.00 fps 29.97 fps 25.00 fps 23.98 fps		2 hr. 49 min.	5 hr. 39 min.	22 hr. 38 min.	50 Mbps 360 MB/min.	SD Speed Class 10 or higher
XF-HEVC S YCC420 10 bit	119.88 fps 100.00 fps	Standard LGOP	2 hr. 1 min.	4 hr. 2 min.	16 hr. 11 min.	70 Mbps 503 MB/min.	SD Speed Class 10 or higher
	59.94 fps 50.00 fps 29.97 fps 25.00 fps 23.98 fps		4 hr. 2 min.	8 hr. 4 min.	32 hr. 15 min.	35 Mbps 253 MB/min.	SD Speed Class 6 or higher
XF-AVC S YCC422 10 bit	119.88 fps 100.00 fps	Standard LGOP	1 hr. 25 min.	2 hr. 50 min.	11 hr. 20 min.	100 Mbps 718 MB/min.	UHS Speed Class 3 or higher
	59.94 fps 50.00 fps 29.97 fps 25.00 fps 23.98 fps		2hr. 49 min.	5 hr. 39 min.	22 hr. 38 min.	50 Mbps 360 MB/min.	SD Speed Class 10 or higher
XF-AVC S YCC420 8 bit	119.88 fps 100.00 fps	Standard LGOP	2 hr. 1min.	4 hr. 2 min.	16 hr. 11 min.	70 Mbps 503 MB/min.	SD Speed Class 10 or higher
	59.94 fps 50.00 fps 29.97 fps 25.00 fps 23.98 fps		4 hr. 2 min.	8 hr. 4 min.	32 hr. 15 min.	35 Mbps 253 MB/min.	SD Speed Class 6 or higher

* Video bit rate indicates video only; audio and metadata are not included.
* When [Audio format: AAC / 16bit / 2CH] is set.
* Movie recording stops when the maximum recording time per movie is reached.

Video AF	One Shot AF; Movie Servo AF available in AF Menu
Exposure Compensation	±3 stops (in 1/3-stop increments)
Time Code	Yes (Count up, Start time setting, Movie recording count, Movie play count, HDMI time code on/off, HDMI rec. command on/off, Drop frame enable/disable)
Movie Pre-recording	Not supported
Special frame rates	High Frame Rate recording (FHD only) up to 119.98 fps S & F (Slow & Fast recording mode): 120p, 60p, 30p, 12p, 6p, 3p • User-selectable playback speed: 23.98p, 29.97p, or 59.94p • Full HD only • Audio not recorded

Video Shooting continued

Time-lapse Movie Setting

	Interval*1	No. of shots	Time required (max.)
Scene 1	2–4 sec.	30–900*2	Approx. 1 hr.
Scene 2	5–10 sec.	30–720*2	Approx. 2 hr.
Scene 3	11–30 sec.	30–240*2	Approx. 2 hr.
Custom	2 sec. to 60 min.	2–3600*3	Approx. 150 days

*1: Can be set in 1-sec. increments.
*2: Can be set in 30-shot increments.
*3: Can be set in 1-shot increments.

Time-lapse Playback Frame Rate	29.97 (set to NTSC); 25.00fps (set to PAL)

LCD Screen

Type	TFT color, liquid-crystal monitor
Monitor Size	3.0-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)
Dots	Approx. 1.04 million dots
Coverage	Approx. 100% vertically/horizontally
Brightness Control	Manually adjustable to one of seven brightness levels
Touch-screen Operation	Supported for AF Point selection; Touch AF; Touch Shutter; Menu selection; Quick Control Menu; Magnified View; Volume Touch Sounds: 0 (silent) to 5
Coating	Anti-smudge coating not provided. Anti-reflection coating not provided.
Interface Languages	29 (English, German, French, Dutch, Danish, Portuguese, Finnish, Italian, Ukraine, Norwegian, Swedish, Spanish, Greek, Russian, Polish, Czech, Hungarian, Vietnamese, Hindi, Romanian, Turkish, Arabic, Thai, Simplified/Traditional Chinese, Korean, Malay, Indonesian, Japanese)

Playback

Display Format

Item	Still Photo	Movie
Magnify zoom display	1.5×–10× (15 levels)	-
Electronic Level Size	Large/Small	Large/Small
Card Free (%) Display	Off / On	-
Grid display	Off / 3×3 / 6×4 / 3×3+diag	-
Zebra display	-	Yes
False Color display	-	Supported (six colors based on brightness level)
Rating	OFF / 1 to 5 Stars Select images / Select range / All images in folder / All images on card / All found images	
Image Search	Search conditions Rating / Date / Folder / Protection / Type of file	
Protect	Select images / Select range / All images in folder / Unprotect all images in folder / All images on card / Unprotect all images on card / All found images	
Shooting information display	No information display / Basic information display / Detailed shooting information display	

Highlight Alert	Blinking highlights during single image with info playback only • cannot be user-enabled or disabled
Histogram	Brightness / RGB
Waveform monitor	Not available
Quick Control Function	
Function	The Quick Control screen can be accessed by pressing the Quick Control button during shooting, recording, or playback.
Quick Control Screen	The following settings can be set in the [Quick Ctrl screen] menu during movie recording. Three options during video recording: • Q1; Q2; Q3 • Display position selectable in Q1 • User-selectable in red Shooting Menu* When [Q]1 is set, [Lock disp. position: Enable/Disable], [Disp. position: Align right/Align left], and [Vertical position: Align top/Align bottom] in [Quick Ctrl disp position] are settable.
Image Protection and Erase	
Protection	(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)
Erase	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)
Direct Printing	
Compatible Printers	Not compatible with Direct printing / Pictbridge
DPOF: Digital Print Order Format	
DPOF	Compliant to DPOF Version 1.1
Wi-Fi®	
Supporting Standards	Equivalent to IEEE 802.11b/g/n/a/ac Standards
Transmission Method	DS-SS modulation (IEEE 802.11b) OFDM modulation - CSMA / CA (IEEE 802.11g/n/a/ac)
Transition Frequency (Central Frequency)	**2.4 GHz band** Frequency: 2412 to 2462 MHz Channels: 1 to 11 channels **5.0 GHz band** Frequency: 5180 to 5825 MHz Channels: 36 to 165 channels
Connection Method	(1) Camera access point mode (2) Infrastructure mode

<table>
<tr><td>Security</td><td>
<table>
<tr><th rowspan="2">Connection Method</th><th rowspan="2">Authentication</th><th colspan="2">Encryption</th></tr>
<tr><th>Encryption</th><th>Key Format and Length</th></tr>
<tr><td rowspan="2">Camera Access Point</td><td>WPA2 / WPA3-Personal</td><td>AES</td><td>• ASCII 8 characters</td></tr>
<tr><td>Open</td><td colspan="2">Disable</td></tr>
<tr><td rowspan="4">Infrastructure</td><td rowspan="2">Open</td><td>WEP</td><td>• Hexadecimal 10 digits
• Hexadecimal 26 digits
• ASCII 5 characters
• ASCII 13 characters</td></tr>
<tr><td colspan="2">Disable</td></tr>
<tr><td>Shared key</td><td>WEP</td><td>Same as WEP above</td></tr>
<tr><td>WPA / WPA2 / WPA3-Personal</td><td>TKIP
AES</td><td>1–127 characters</td></tr>
</table>
</td></tr>
<tr><td>Communication with a Smartphone</td><td>• Images can be viewed, controlled, and received using a smartphone.
• Remote control of the camera using a smartphone is possible depending on the Camera Connect specifications.
• Images can be sent to a smartphone.
• NFC connection: Not supported
• Supported images: JPEG, HEIF, RAW/C-RAW, MP4 video files
• Transcoding while sending: Size to send (original / reduced size); Quality to send (original / compressed)</td></tr>
<tr><td>Remote Operation Using EOS Utility</td><td>The camera can be controlled via Wi-Fi® or USB, with Canon EOS Utility software installed in a compatible Mac or Windows computer.</td></tr>
<tr><td>Print from Wi-Fi® Printers</td><td>Supported</td></tr>
<tr><td>Send Images to a Web Service</td><td>image.canon: Video files (MP4) and JPEG, HEIF, RAW or C-RAW still images can be uploaded to image.canon servers.
From image.canon, images can be sent to specific social media and 3rd-party cloud image services.</td></tr>
<tr><td colspan="2">Bluetooth®</td></tr>
<tr><td>Standards Compliance</td><td>Bluetooth Specification Version 4.2 compliant (Bluetooth Low Energy technology)</td></tr>
<tr><td>Transmission Method</td><td>GFSK modulation</td></tr>
<tr><td>Bluetooth Pairing</td><td>Smartphone — up to 10 devices; BR-E1 remote controller — 1 unit</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>Live Switcher Mobile streaming</td><td>Available.
* Connect devices (smartphone) to multiple cameras via Wi-Fi, the actual video to be streamed can be selected/switched using the app while streaming. Streaming is possible with YouTube, Facebook, etc.</td></tr>
<tr><td>HDMI Streaming</td><td>Available.
* Connect devices (PC, external screen, video switcher) and the camera with an HDMI cable. Using apps such as OBS Studio, streaming is possible with Teams, Skype, YouTube, Facebook, etc.</td></tr>
<tr><td>Camera Connect streaming</td><td>Available.
* Connect devices (smartphone) and the camera with Bluetooth, set up streaming, then stream via Wi-Fi. Streaming is possible with YouTube, Facebook, Twitch, etc.</td></tr>
</table>

Interface

USB Terminal	Equivalent to Super-Speed Plus USB (USB 3.2 Gen 2) • For PC communication / smartphone communication (Live streaming not possible through USB) • Terminal type: USB Type-C • Shared with terminal for in-camera charging with USB Power Adapter PD-E1.
HDMI Out Terminal	HDMI micro OUT terminal (Type D) * HDMI CEC not supported * Images not displayed unless [For NTSC] or [For PAL] is set correctly for the TV video system
Clean HDMI Output	Provided
Microphone terminal	3-Pin Microhpone IN
Headphone terminal	3.5mm diameter stereo mini-plug
Remote Control terminal	Canon E3 type (single pin socket)

Power Source

Battery	Canon LP-E17 battery pack • Battery charger: Canon LC-E17 charger; supplied with camera • 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 or PD-E2 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.
Start-up Time	Approx. 0.4 sec. • Based on CIPA testing standards.

Accessories

Compatible accessories	• Multi-function shoe cover ER-SC2 (replacement) • Multi-function Shoe Adapter AD-E1 • Canon EX-series speedlites (all, using AD-E1 adapter) • Canon EL-series speedlites (EL-1 requires AD-E1 adapter) • Speeedlite Transmitter ST-E10 • Speedlite Transmitter ST-E3-RT (version 2) — requires AD-E1 adapter • Off-camera Shoe Cord OC-E4A and OC-E3 (requires AD-E1 adapter) • Directional Stereo Microphone DM-E1D (direct connection to M.Fn shoe) • Directional Stereo Microphone DM-E1 (connects via microphone socket) • Stereo Microphone DM-E100 (connects via microphone socket) • Remote Switch RS-60E3 • Timer Remote Controller TC-80N3 (requires Remote Controller Adapter RA-E3) • Wireless Remote Control BR-E1 • Smartphone Link Adapter AD-P1 • Tripod Grip HG-100TBR

Dimensions and Weight

Dimensions (W x H x D)	Approx. 4.7 x 2.9 x 1.8 in. / 119.3 x 73.7 x 45.2mm • Based on CIPA standards.
Weight	**Body (including battery and card)**[*1] — Approx. 0.82 lbs. (13 oz.) — Approx. 370 g **Body only** — Approx. 0.71 lbs (11.4 oz.) — Approx. 323 g

Operating Environment

Temperature Range	32–104°F / 0–40°C working range
Humidity Range	85% or less working range