Canon

EOS R5

Type	
Type	Digital single-lens non-reflex AF/AE camera
Image Processor	DIGIC X
Recording Media	CFexpress card • Type B: Card slot * With firmware 2.0.0 and above, camera can accept CFexpress cards over 2TB in capacity. With these cards, the camera can write to the first 2TB (only) of total card capacity. SD card • SD card speed class-compatible. • Compatible with UHS-II • Eye-Fi cards and Multimedia cards (MMC) are not supported.
Compatible Lenses	Canon RF lens group (excluding EF, EF-S and EF-M lenses) When using Mount Adapter EF-EOS R: Canon EF or EF-S lenses (excluding EF-M lenses)
Lens Mount	Canon RF mount
Image Sensor	
Type	CMOS sensor (compatible with Dual Pixel CMOS AF)
Effective Pixels	Approx. 45.0 megapixels
Sensor Size	Approx. 36.0 x 24.0 mm
Pixel Size	Approx. 4.40 µm square
Total Pixels	Approx. 47.1 megapixels
Aspect Ratio	3:2 (Horizontal: Vertical)
Color Filter System	RGB primary color filters
Low Pass Filter	Installed in front of the image sensor, non-detachable
Dust Deletion Feature	(1) Self Cleaning Sensor Unit • Removes dust adhering to the low-pass filter. • At power off only / Enable / Disable. Performed automatically (taking about approx. 2 sec. as indicated on the screen) or manually (taking about approx. 8 sec. as indicated on the screen). • After manually activated cleaning, the camera will automatically restart (Power OFF to ON). • When [Multi Shot Noise Reduction], [Multiple exposures], or [HDR mode] is set, [Clean now] and [Clean manually] cannot be selected. (2) Dust Delete Data acquisition and appending • The coordinates of the dust adhering to the low-pass filter are detected by a test shot and appended to subsequent images. • The dust coordinate data appended to the image is used by the EOS Canon Digital Professional Software (v. 4.14 and higher) to automatically erase the dust spots. • Not available with EF-S lenses, in cropped shooting or multi-exposure shooting. (3) Manual cleaning (by hand)

Recording System	
Recording Format	Compliant to Design rule for Camera File system 2.0 and Exif 2.3*. *Supports time difference information in Exif 2.31.
Image Format	JPEG, HEIF, RAW (CR3, 14 bit RAW format), C-RAW (Canon original); Movies: ALL-I, IPB, RAW
HDR Mode- Continuous Shooting	(1) 1 shot only (2) Continuously (3) Multiple Exposure
Advanced shooting operations	(1) Focus Bracketing (2) Interval Timer (3) Bulb Timer (4) Multi-Shot NR
File Size	3:2 Aspect Ratio Large/RAW/C-RAW: 8192 x 5464 Medium: 5808 x 3872 Small 1: 4176 x 2784 Small 2: 2400 x 1600 1.6x (Crop)* Large/RAW/C-RAW: 5088 x 3392 Small 2: 2400 x 1600 4:3 Aspect Ratio Large: 7280 x 5464 Medium: 5152 x 3872 Small 1: 3712 x 2784 Small 2: 2112 x 1600 RAW/C-RAW: 8192 x 5464 16:9 Aspect Ratio Large: 8192 x 4608 Medium: 5808 x 3264 Small 1: 4176 x 2344 Small 2: 2400 x 1344 RAW/C-RAW: 8192 x 5464 1:1 Aspect Ratio Large: 5456 x 5456 Medium: 3872 x 3872 Small 1: 2784 x 2784 Small 2: 1600 x 1600 RAW/C-RAW: 8192 x 5464 • Values for Recording Pixels are rounded to the nearest 100,000 or 10,000. • For RAW and JPEG images, information outside the cropping area is not retained. • JPEG images are generated in the set aspect ratio. • RAW images are generated in [3:2], and the set aspect ratio is appended. * Indicate an inexact proportion.

File Numbering	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.
RAW + JPEG / HEIF Simultaneous Recording	Simultaneous recording of any combination of RAW/C-RAW and JPEG/HEIF image-recording quality is supported.
Color Space	Selectable between sRGB and Adobe RGB
Picture Style	(1) Auto (2) Standard (3) Portrait (4) Landscape (5) Fine Detail (6) Neutral (7) Faithful (8) Monochrome (9) User Defined 1–3 • In Scene Intelligent Auto, [Auto] will be set automatically. • [Standard] is the default setting for [User Def. 1–3].
White Balance	
Settings	(1) Auto (Ambience priority/White priority) (2) Daylight (3) Shade (4) Cloudy* (5) Tungsten light (6) White fluorescent light (7) Flash (8) Custom (Custom WB) (9) Color temperature * Effective also in twilight and sunset.
Auto White Balance	Option between ambience priority and white priority settings.
White Balance Shift	Blue/amber bias: ±9 levels Magenta/green bias: ±9 levels Corrected in reference to the current WB mode's color temperature.
Viewfinder	
Type	OLED color electronic viewfinder; approx. 5.76 million dots resolution
Coverage	Approx. 100% vertically and horizontally relative to the shooting image area (with image quality L, at approx. 23mm eyepoint).
Magnification / Angle of View	Approx. 0.76x / Approx. 35.5 degrees (with 50mm lens at infinity, -1 m^{-1})
Eye Point	Approx. 23mm (at -1 m^{-1} from the eyepiece lens end)
Dioptric Adjustment Range	Approx. -4.0 to + 2.0 m^{-1} (dpt)

Viewfinder Information	(1) Maximum burst (2) Possible shots/Sec. until self-timer shoots (3) Focus Bracketing/ Multiple-exposure/HDR shooting/Multi Shot Noise Reduction/Bulb time/Interval timer (4) Shooting mode (5) AF method (6) AF operation (7) Image quality (8) Card (9) Drive mode (10) Metering mode (11) No. of remaining shots for focus bracketing, multiple exposures, or interval timer (12) Electronic level (13) Movie recording time available (14) Battery level (15) Image Stabilizer (IS mode) (16) Histogram (Brightness/RGB) (17) Quick Control button (18) Anti-flicker shooting (19) White balance/White balance correction (20) Picture style (21) Auto Lighting Optimizer (22) Still photo cropping / Aspect ratio (23) AF point (1-point AF) (24) AEB/FEB (25) View Assist (26) HDR PQ (27) Flash ready / FE lock / High-speed sync (28) Electronic shutter (29) Touch shutter / Create folder (30) AE lock (31) Shutter speed / Multi-function lock warning (32) Aperture value (33) Wi-Fi® function (34) Wi-Fi® signal strength (35) Bluetooth® function (36) Exposure simulation (37) Magnify button (38) ISO speed (39) Highlight tone priority (40) Exposure compensation (41) Exposure level indicator
Autofocus	
Focus Method	Dual Pixel CMOS AF
Number of AF zones available for Automatic Selection	AF area: Horizontal: Approx. 100% x Vertical: Approx. 100% Stills: Max. 1053 zones (39 x 27) Movies: Max. 819 zones (39 x21)
AF Working Range	EV -6 to 20 (f/1.2 lens*, center AF point, One-Shot AF,at 73°F/23°C, ISO 100) * Except RF lenses with a Defocus Smoothing (DS) coating.
Focusing brightness range (in movie recording)	8K: EV -3 to 20 4K / Full HD: EV -4 to 20 With an f/1.2 lens*, center AF point, One-Shot AF,at 73°F/23°C, ISO 100 * Except RF lenses with a Defocus Smoothing (DS) coating.

<table>
<tr><td>AF Methods</td><td>
<table>
<tr><th>AF Method</th></tr>
<tr><td>Face+Tracking AF</td></tr>
<tr><td>Spot AF</td></tr>
<tr><td>1-point AF</td></tr>
<tr><td>Expand AF Area
(Above, below, left and right/Around)</td></tr>
<tr><td>Zone AF</td></tr>
<tr><td>Large Zone AF: Vertical, Horizontal</td></tr>
</table>
</td></tr>
<tr><td>Subject to Detect</td><td>People, Animals, No Priority
* Available with [AF method] set to Face+Tracking, Zone AF, or Large Zone AF (vertical/horizontal)</td></tr>
<tr><td colspan="2">Exposure Control</td></tr>
<tr><td>Metering Modes</td><td>Real-time metering with image sensor (384 zones [24x16 zone metering])
(1) Evaluative metering (AF point-linked)
(2) Partial metering (approx. 6.1% of the area at the center of the screen)
(3) Spot metering (approx. 3.1% of the area at the center of the screen)
(4) Center-weighted average metering</td></tr>
<tr><td>Metering Range</td><td>EV -3 – 20 (at 73°F/23°C, ISO 100) (Still Photo Shooting)</td></tr>
<tr><td>Exposure Control Modes</td><td>(1) Scene Intelligent Auto
(2) Flexible-priority AE (Fv)
(3) Program AE (P)
(4) Shutter-priority AE (Safety shift possible) (Tv)
(5) Aperture-priority AE (Safety shift possible) (Av)
(6) Manual exposure (M)
(7) Bulb
(8) Custom shooting mode C1, C2, C3</td></tr>
</table>

ISO Speed Range

Available ISO speeds; user-set

Normal	ISO 100–51200 (in 1/3- or 1-stop increments)
Expanded	L: equivalent to ISO 50, H: 102400

• For [Highlight tone priority], the settable ISO speed range will be ISO 200 to 51200.
• Expanded ISO cannot be set for HDR mode or during HDR PQ shooting.

User-defined ISO range - still photo shooting

ISO Speed Range	ISO speed
Minimum	L (50)–51200 (in 1-stop increments)
Maximum	ISO 100–H (102400) (in 1-stop increments)

* Expanded ISO speeds are noted as being “equivalent” to these speeds.

User-defined Auto ISO range - still photo shooting

Auto Range	ISO speed
Minimum	ISO 100–25600 (in 1-stop increments)
Maximum	ISO 200–51200 (in 1-stop increments)

ISO Auto details in still photo shooting

Shooting mode	No Flash	Using Flash
Auto	ISO 100-12800	ISO 100-6400*3
P	ISO 100*1*2-51200*2	ISO 100*1*2–6400*2*4
TV		
AV		
M		
B	ISO 400*3	

* 1: ISO 200 when [Highlight tone priority] is set to [Enable] or [Enhanced].
* 2: Varies depending on [Maximum] and [Minimum] of [Auto range].
* 3: If outside the setting range, changed to the value most close to ISO 400.
* 4: ISO 1600 when using a lens that is not compatible with “Variable control of maximum ISO Auto limit for E-TTL”.

Exposure Compensation

Manual	±3 stops in 1/3- or 1/2-stop increments
AEB	±3 stops in 1/3- or 1/2-stop increments

AE Lock

(1) Auto AE lock
• The metering mode for AE lock after one-shot focus can be customized.
(2) User-applied AE lock
• In the Fv, P, Tv, Av and M modes, enabled with the AE lock button. (Press again to update.)
• Enabled in all metering modes.

Shutter

Type

(1) Mechanical
(2) Electronic 1st-Curtain
(3) Electronic Shutter (1st and 2nd curtain - silent*)
* Cannot be used in conjunction with the following functions: flash photography, HDR shooting, multiple exposures, Multi Shot Noise Reduction, AEB, HDR PQ, anti-flicker shooting, Dual Pixel RAW shooting, Digital Lens Optimizer [High].
* A shutter release sound is not generated. However, note that the sounds other than the shutter release sound (aperture, focusing lens drive sound/electronic sound, etc.) may be generated.
* In electronic shutter shooting under conditions such as flash firing by other cameras or with fluorescent lighting or other flickering light sources, a strip of light or banding due to the brightness difference may be recorded in the image.

Shutter Speeds	When [Mechanical] or [Elec. 1st- curtain] is set: 1/8000-30 sec, bulb When [Electronic] is set: 1/8000-0.5 sec.
X-sync Speed	Mechanical Shutter: 1/200 sec. Elec. 1st-curtain: 1/250 sec.
Shutter Release	Soft-touch electromagnetic release
Self Timer	10-sec. delay, 2-sec. delay

Shutter Lag Time

	Flash	Mechanical Shutter	Electronic 1st curtain	Electronic shutter
Shutter-release time lag *Measured with shutter button pressed fully from half-pressed position	Not used	Approx. 81 ms	Approx. 50 ms	Approx. 50 ms
	Used	N/A	N/A	-

Based on Canon testing standards.

Image Stabilization (IS mode)

Still Photo IS

In-body IS operation can be selected when using a non-IS lens.
- Always on
- Only for shot

5-axis Image Stabilization with EF/RF lenses

Lens		Pitch/YAW	X/Y	Roll
EF	Without IS	In-body IS	In-body IS	In-body IS
	Optical IS	Optical IS	In-body IS	In-body IS
	Hybrid IS	Optical IS	Still: Optical IS Movie: In-body IS	In-body IS
RF	Without IS	In-body IS	In-body IS	In-body IS
	Optical IS	Coordinated Control* Optical IS+In-body IS	In-body IS	In-body IS
	Hybrid IS	Coordinated Control* Optical IS+In-body IS	Still: Optical IS Movie: In-body IS	In-body IS

* As of July 2020. Except RF600mm F11 IS STM and RF800mm F11 IS STM

EOS R5 coordinated In-Body Image Stabilizer Still Shooting performance with RF lenses

Lens	Coordinated Control IS	Focal Length	IS stop (CIPA Standard)
RF24-105mm F4 L IS USM	Yes	105mm	8.0
RF35mm F1.8 MACRO IS STM	Yes	35mm	7.0
RF24-70mm F2.8 L IS USM	Yes	70mm	8.0
RF15-35mm F2.8 L IS USM	Yes	35mm	7.0
RF24-240mm F4-6.3 IS USM	Yes	240mm	6.5
RF70-200mm F2.8 L IS USM	Yes	200mm	7.5
RF24-105mm F4-7.1 IS STM	Yes	105mm	8.0
RF100-500mm F4.5-7.1 L IS USM*	Yes	500mm	6.0
RF85mm F2 MACRO IS STM	Yes	85mm	8.0
RF50mm F1.2L USM	-	50mm	7.0
RF28-70 F2 L USM	-	70mm	8.0
RF85mm F1.2 L USM	-	85mm	8.0
RF85mm F1.2 L USM DS	-	85mm	8.0

*Camera firmware update is necessary.

External Speedlite

E-TTL balance	Ambience priority, standard, flash priority
Compatible E-TTL Speedlites	Canon EX- and EL-series Speedlites
E-TTL II Flash Metering	(1) Evaluative (Face Priority) (2) Evaluative (3) Average
Slow Sync (P/Av modes)	(1) 1/250* – 30 sec., auto (2) 1/250* – 1/60 sec., auto (3) 1/250* sec. (fixed) * Electronic 1st curtain shutter only * With mechanical shutter — 1/200 sec.
Flash Function Menu	Provided for EX- and EL-series Speedlites
Flash Exposure Compensation	±3 stops in 1/3- or 1/2-stop increments
Continuous flash control	1. E-TTL each shot 2. E-TTL 1st shot

Drive System

Drive Modes and Continuous Shooting Speed

<table>
<tr><th>Drive Modes</th><th>Icon Display</th><th>Mechanical Shutter</th><th>Electronic 1st curtain</th><th>Electronic shutter</th></tr>
<tr><td colspan="2">Single Shooting</td><td>Yes</td><td>Yes</td><td>Yes</td></tr>
<tr><td rowspan="3">High-speed Continuous + shooting*1</td><td>Green*2</td><td colspan="2">Approx. 12 shots/sec.</td><td rowspan="7">Approx. 20 shots/sec</td></tr>
<tr><td>White</td><td colspan="2">Approx. 9.2 shots/sec.</td></tr>
<tr><td>White (Blinking)</td><td colspan="2">Approx. 6.8 shots/sec.</td></tr>
<tr><td rowspan="3">High-speed Continuous shooting</td><td>Green*2</td><td>Approx. 6.0 shots/sec.</td><td>Approx. 8.0 shots/sec.</td></tr>
<tr><td>White</td><td>Approx. 5.1 shots/sec.</td><td>Approx. 6.0 shots/sec.</td></tr>
<tr><td>White (Blinking)</td><td>Approx. 3.9 shots/sec.</td><td>Approx. 4.9 shots/sec.</td></tr>
<tr><td rowspan="3">Low-speed Continuous Shooting</td><td>Green*2</td><td colspan="2" rowspan="3">Approx. 3.0 shots/sec.</td></tr>
<tr><td>White</td></tr>
<tr><td>White (Blinking)</td></tr>
<tr><td colspan="2">Self-timer:10 sec / remote control</td><td colspan="3">Yes</td></tr>
<tr><td colspan="2">Self-timer:2 sec / remote control</td><td colspan="3">Yes</td></tr>
</table>

* Automatically switches among modes Green, White, and White (Blinking).

* Continuous shooting speed is lower under certain shooting and measurement conditions: shutter speed, aperture value,- subject conditions, brightness, type of lens, timing when internal memory becomes full (temporarily disables shooting)

- Mechanical / electronic 1st curtain: use of flash, anti-flicker shooting: Enable, Dual Pixel RAW shooting- Enable, type of battery, battery level, temperature, use of a battery grip, use of WFT, use of built-in Wi-Fi.

- Electronic shutter: State of aperture in continuous shooting

* With Certain lenses, zooming during continuous shooting with electronic shutter may cause changes in exposure even at the same f/number.

*1: For shooting RAW images in [High-speed continuous +], 13-bit A/D conversion will apply regardless of the mode (A, B, or C).

*2: With Anti-flicker shooting, max. continuous shooting speed may drop to approx 6.2 fps (with electronic 1st curtain shutter) or approx. 4.9 fps (with mechanical shutter)\.

* For Dual Pixel RAW shooting, Low-speed continuous shooting will apply.

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

Still Shooting with Mechanical Shutter or electronic 1st-curtain shutter, shot at approx. 12 fps

	Image Quality	Maxiumum Burst [Approx.]		
		SD Card (UHS-I)	SD Card [High-speed] (UHS-II)	CFexpress Card
JPEG*4	L (fine)	190	350	350
HEIF*3	L (fine)	190	280	280
RAW*4	RAW	66	87	180
	C-RAW	130	260	260
RAW+JPEG*4	RAW + L (fine)	64	79	160
	C-RAW + L (fine)	100	130	240
RAW+HEIF*3	RAW + L (fine)	61	74	90
	C-RAW + L (fine)	110	140	140

With Electronic shutter, shot at approx. 20 fps

	Image Quality	Maxiumum Burst
		CFexpress Card
JPEG*4	L (fine)	170
RAW*4	RAW	83
	C-RAW	130
RAW+-JPEG*4	RAW + L (fine)	84
	C-RAW + L (fine)	150

*1: The number of possible shots and maximum burst (SD card) apply to a 32 GB SD card based on Canon testing standards.
*2: The number of shots available and maximum burst (CFexpress card) apply to a 325 GB CFexpress card conforming to Canon testing standards.
*3: Available when [HDR PQ] for HDR shooting is set to [Enable].
*4: When [HDR PQ] for HDR shooting is set to [Disable].
*5: With mechanical shutter or electronic 1st-curtain shutter, shot at approx. 12 fps.
* File size, number of possible shots, and maximum burst vary depending on shooting conditions (including 1.6x crop/aspect ratio, subject, memory card brand, ISO speed, Picture Style, and Custom Function).

HDR Shooting and Movie Recording

HDR PQ Shooting

Disable / Enable

HDR PQ Shooting - Still

Recording format	Bit depth	Color sampling method	HDR specification
HEIF	10 bit	YCbCr 4:2:2	ITU-R BT.2100 (PQ)

HDR PQ Shooting - Movie

Recording format	Bit depth	Color sampling method	HDR specification
mp4	10 bit	YCbCr 4:2:2	ITU-R BT.2100 (PQ)

Video Shooting

Focusing	Dual Pixel CMOS AF
Exposure Compensation	±3 stops in 1/3- or 1/2-stop increments
Canon Log	Provided (Off / Canon Log / Canon Log 3)

Estimated Shooting Times

Auto Power off temperature: Standard (firmware 1.6.0 or later)

Resolution and Frame Rate	Mode	Estimated shooting time (23°C / 73°F)*1	Recommended scene
8K 30p	Full Sensor Width	20 min	8K productions where a full-frame mirrorless can be utilized to get unique angles alongside a main camera or additional cropping for 4K productions
	Full Sensor Width RAW	20 min	As above but with the additional workflow flexibility of RAW
4K 120p	Full Sensor Width	15min*2	Shorter bursts of slow motion
4K 60p	Full Sensor Width	35min*3	High-frame rate high resolution productions and independent films
	APS-C Crop (5.1K Oversampled)	25 min	When additional reach is required with higher frame rates – e.g. wildlife and sports and news gathering within a 4K production or even for tighter Full HD crops in post.
4K 30p	Full Sensor Width	Not limited by heat	Interviews, longer duration capture such as weddings.
	Full Sensor Width Hig Quality (8.2K Oversampled)	30 min	When additional resolution is required with a 4K30p production or for a Full HD workflow where cropping can be desirable with high resolution.
	APS-C Crop (5.1K Oversampled)	Not limited by heat	When additional reach is required – e.g. wildlife and sports and news gathering within a 4K production or even for tighter Full HD crops in post.

*1 Time available for continuous shooting in 23°C / 73°F environment, from a cold start. If the camera is in LV mode standby before shooting or the ambient temperature is high, the shooting time may be shorter.

*2 Recording stops at 7minutes and 30seconds for high frame rate video. Indicates the time when recording can be resumed immediately.

*3 Recording is limited to 29 minutes 59 seconds. Indicates the time when recording can be resumed immediately.

Estimated Shooting Times

Auto Power off temperature: High (firmware 1.6.0 or later)

Resolution and Frame Rate	Mode	Estimated shooting time (23°C / 73°F)*1	Recommended scene
8K 30p	Full Sensor Width	45 min	8K productions where a full-frame mirrorless can be utilized to get unique angles alongside a main camera or additional cropping for 4K productions
4K 60p	Full Sensor Width	60+min*	High-frame rate high resolution productions and independent films
	APS-C Crop (5.1K Oversampled)	50 min*	When additional reach is required with higher frame rates – e.g. wildlife and sports and news gathering within a 4K production or even for tighter Full HD crops in post.

- According to Canon testing conditions when using CFexpress cards and SD memory cards conforming to Canon testing standards.
- When the ambient temperature is higher than +23°C/73°F, the available recording time will be shorter.
- When using “wired LAN connection”, the available recording time will be shorter.
- When using the viewfinder (EVF), the available recording time will be shorter than when using the camera’s screen (LCD). (Heat generation: LCD < EVF)
- Compared to when using the battery, available recording time will be shorter when supplying power by USB. (Heat generation: Battery < USB power supply)
- When Live View display is maintained before recording begins, the available recording time may be shorter.
- Depending on the movie recording quality or capacity of the card used, the card may become full before available continuous recording time.
- If you set [Auto pwr off temp.] to [High] and record movies, the card may become very hot. Therefore, be careful of burns when taking it out.
- camera (externally and internally) is almost the same as the surrounding environment of era (ambient temperature, at room

*Recording is limited to 29 minutes 59 seconds. Indicates the time when recording can be resumed immediately.

Estimated Camera Recovery Time

Auto Power off temperature: Standard (firmware 1.6.0 or later)

Estimated recovery times are indicated below. These are affected by various factors such as ambient temperature, continued camera operation and the selected shooting resolution. The time until full record time is available, will vary with ambient temperature.

Resolution and Frame Rate	Waiting Period (73°F / 23°C)	Approximate Maximum Recording Time after Waiting Period (minutes)
8K 30p	10 min	3
	20 min	8
4K 60p	10 min	10

File Format

Standard Movie Recording

		Canon Log		
		OFF		ON
HDR PQ		OFF	ON	OFF
Container format		MP4		
Bit depth		8 bit	10 bit	10 bit
Compression	8K	H.265/HEVC	H.265 / HEVC	H.265 / HEV
	4K / Full HD	H.264 / MPEG-4 AVC		
Video signal recording range		Full range (0-255)	Full range (0-1023)	Full range (128-1016)
Color sampling method		YCbCr 4:2:0	YCbCr 4:2:2	YCbCr 4:2:2
Color Matrix		Rec.ITU-R BT.709	Rec.ITU-R BT.2020	Rec.ITU-R BT.709/ BT.2020
Audio	ALL-I / IPB	AAC / Linear PCM*		
	IPB (light)	AAC		

* Selection of AAC and Linear PCM is supported [C.Fn 4-2: Audio compression]

RAW Movie Recording

	Canon Log		
	OFF		ON
HDR PQ	OFF	ON	OFF
Container format	RAW (CRM)		
Bit depth	12 bit		
Audio	Linear PCM		
Simultaneous movie recording (4K DCI)	MP4	MP4 (10 bit)	

4K HQ movies (4K Fine)

High-quality 4K mode movies from 8K readout oversampling.

* 4K DCI supports 29.97p, 24.00p and 23.98p recording.
  4K UHD supports 29.97p and 23.98p recording.
* SD card recording supported.
* EF-S cropping not supported.

Estimated Cumulative Data

Canon Log: Off, HDR PQ: Off

Video Recording Size			Theoretical Time Capacity^			Bit Rate/File Size (approx.)
			64 GB	256 GB	1 TB	
8K DCI	29.97 fps 23.98 fps	RAW	3 min.	13 min.	51 min.	2600 Mbps 18668 MB/min.
	29.97 fps	RAW (Light)	4 min.	19 min.	1 hr. 17 min.	1700 Mbps 12230 MB/min.
	23.98 fps	RAW (Light)	6 min.	25 min.	1 hr. 38 min.	1350 Mbps 9715 MB/min.
	29.97 fps 23.98 fps	ALL-I	6 min.	26 min.	1 hr. 42 min.	1300 Mbps 9309 MB/min.
		IPB	18 min.	1 hr. 12 min.	4 hr. 42 min.	470 Mbps 3373 MB/min.
		IPB (Light)	37 min.	2 hr. 28 min.	9 hr. 39 min.	230 Mbps 1647 MB/min.
8K UHD	29.97 fps 23.98 fps	ALL-I	6 min.	26 min.	1 hr. 42 min.	1300 Mbps 9309 MB/min
		IPB	18 min.	1 hr. 12 min.	4 hr. 42 min.	470 Mbps 3373 MB/min.
		IPB (Light)	37 min.	2 hr. 28 min.	9 hr. 39 min.	230 Mbps 1647 MB/min.
4K DCI	59.94 fps	ALL-I	9 min.	36 min.	2 hr. 21 min.	940 Mbps 6734 MB/min.
		IPB	36 min.	2 hr. 27 min.	9 hr. 35 min.	230 Mbps 1656 MB/min.
		IPB (Light)	1 hr. 10 min.	4 hr. 43 min.	18 hr. 28 min.	120 Mbps 860 MB/min.
4K DCI 4K HQ mode- FINE	29.97 fps 23.98 fps	ALL-I	18 min.	1 hr. 12 min.	4 hr. 42 min.	470 Mbps 3373 MB/min.
		IPB	1 hr. 10 min.	4 hr. 40 min.	18 hr. 17 min.	120 Mbps 869 MB/min.
		IPB (Light)	2 hr. 21 min.	9 hr. 26 min.	36 hr. 52 min.	60 Mbps 431 MB/min.
4K DCI	119.88 fps	ALL-I	4 min.	18 min.	1 hr. 10 min.	1880 Mbps 13447 MB/min.

Estimated Cumulative Data

Canon Log: Off, HDR PQ: Off (Continued)

Video Recording Size				Theoretical Time Capacity^			Bit Rate/File Size (approx.)
				64 GB	256 GB	1 TB	
4K UHD		59.94 fps	ALL-I	9 min.	36 min.	2 hr. 21 min.	940 Mbps 6734 MB/min.
			IPB	36 min.	2 hr. 27 min.	9 hr. 35 min.	230 Mbps 1656 MB/min.
			IPB (Light)	1 hr. 10 min.	4 hr. 43 min.	18 hr. 28 min.	120 Mbps 860 MB/min.
4K UHD 4K UHD HQ mode- FINE		29.97 fps 23.98 fps	ALL-I	18 min.	1 hr. 12 min.	4 hr. 42 min.	470 Mbps 3373 MB/min.
			IPB	1 hr. 10 min.	4 hr. 40 min	18 hr. 17 min.	120 Mbps 869 MB/min.
			IPB (Light)	2 hr. 21 min.	9 hr. 26 min.	36 hr. 52 min.	60 Mbps 431 MB/min.
4K UHD		119.88 fps	ALL-I	4 min.	18 min.	1 hr. 10 min.	1880 Mbps 13447 MB/min.
Full HD		59.94 fps	ALL-I	47 min.	3 hr. 8 min.	12 hr. 14 min.	180 Mbps 1298 MB/min
			IPB	2 hr. 18 min.	9 hr. 14 min.	36 hr. 6 min.	60 Mbps 440 MB/min.
			IPB (Light)	4 hr. 1 min.	16 hr. 7 min.	63 hr. 1 min.	35 Mbps 252 MB/min.
		29.97 fps 23.98 fps	ALL-I	1 hr. 33 min.	6 hr. 12 min.	24 hr. 16 min.	90 Mbps 655 MB/min.
			IPB	4 hr. 30 min.	18 hr. 2 min.	70 hr. 27 min.	30 Mbps 226 MB/min.
			IPB (Light)	11 hr. 35 min.	46 hr. 23 min.	181 hr. 13 min.	12 Mbps 88 MB/min.
FULL HD		119.88 fps	ALL-I	23 min.	1 hr. 34 min.	6 hr. 10 min.	360 Mbps 2575 MB/min.
Time-lapse movies	8K	29.97 fps	ALL-I	6 min.	26 min	1 hr. 42 min.	1300 Mbps 9298 MB/min.
	4K			18 min.	1 hr. 12 min.	4 hr. 43 min.	470 Mbps 3362 MB/min.
	Full HD			1 hr. 34 min.	6 hr. 19 min.	24 hr. 41 min.	90 Mbps 644 MB/min.

- Bit rate indicates video output only; audio is not included.
- Video recording is interrupted if the maximum recording time per video, 29 min. 59 sec., is exceeded.
- When movie crop shooting is set to [Disable] or movie digital IS is set to [Disable].
- There is no restriction to automatically stop movie shooting even when the file size reaches 4GB.
- Sound is not recorded for approx. the last two frames when the compression method for movie recording quality is IPB or IPB Light (audio: AAC) and [C .Fn III-9: Audio compression] is set to [Enable]).
- When you play back movies on Windows, movie images and sound may become slightly out of synchronization.

Estimated Cumulative Data, Continued.

Canon Log: On or HDR PQ: On

Video Recording Size			Theoretical Time Capacity^			Bit Rate/File Size (approx.)
			64 GB	256 GB	1 TB	
8K RAW	29.97 fps 23.98 fps	RAW	3 min.	13 min.	51 min.	2600 Mbps 18668 MB/min.
	29.97 fps	RAW (Light)	4 min.	19 min.	1 hr. 17 min.	1700 Mbps 12230 MB/min.
	23.98 fps	RAW (Light)	6 min.	25 min.	1 hr. 38 min.	1350 Mbps 9715 MB/min.
8K DCI	29.97 fps 23.98 fps	ALL-I	6 min.	26 min.	1 hr. 42 min.	1300 Mbps 9309 MB/min.
		IPB	12 min.	50 min	3 hr. 15 min.	680 Mbps 4875 MB/min.
		IPB (Light)	25 min.	1 hr. 40 min.	6 hr. 31 min.	340 Mbps 2434 MB/min.
8K UHD	29.97 fps 23.98 fps	ALL-I	6 min.	26 min.	1 hr. 42 min.	1300 Mbps 9309 MB/min
		IPB	12 min.	50 min.	3 hr. 15 min.	680 Mbps 4875 MB/min.
		IPB (Light)	25 min.	1 hr. 40 min.	6 hr. 31 min.	340 Mbps 2434 MB/min.
4K DCI	59.94 fps	ALL-I	8 min.	34 min.	2 hr. 13 min.	1000 Mbps 7164 MB/min.
		IPB	24 min.	1 hr. 39 min.	6 hr. 30 min.	340 Mbps 2443 MB/min.
		IPB (Light)	50 min.	3 hr. 20 min.	13 hr. 3 min.	170 Mbps 1218 MB/min.
4K DCI 4K HQ mode- FINE	29.97 fps 23.98 fps	ALL-I	18 min.	1 hr. 12 min.	4 hr. 42 min.	470 Mbps 3373 MB/min.
		IPB	49 min.	3 hr. 18 min.	12 hr. 57 min.	170 Mbps 1227 MB/min.
		IPB (Light)	1 hr. 40 min.	6 hr. 40 min.	26 hr. 3 min.	85 Mbps 610 MB/min.
4K DCI	119.88 fps	ALL-I	4 min.	18 min.	1 hr. 10 min.	1880 Mbps 13447 MB/min.

Estimated Cumulative Data, Continued.

Canon Log: On or HDR PQ: On (Continued)

Video Recording Size				Theoretical Time Capacity^			Bit Rate/File Size (approx.)
				64 GB	256 GB	1 TB	
4K UHD		59.94 fps	ALL-I	8 min.	34 min.	2 hr. 13 min.	1000 Mbps 7164 MB/min.
			IPB	24 min.	1 hr. 39 min.	6 hr. 30 min.	340 Mbps 2443 MB/min.
			IPB (Light)	50 min.	3 hr. 20 min.	13 hr. 3 min.	170 Mbps 1218 MB/min.
4K UHD 4K UHD HQ mode- FINE		29.97 fps 23.98 fps	ALL-I	18 min.	1 hr. 12 min.	4 hr. 42 min.	470 Mbps 3373 MB/min.
			IPB	49 min.	3 hr. 18 min	12 hr. 57 min.	170 Mbps 1227 MB/min.
			IPB (Light)	1 hr. 40 min	6 hr. 40 min	26 hr. 3 min	85 Mbps 610 MB/min.
4K UHD		119.88 fps	ALL-I	4 min.	18 min.	1 hr. 10 min.	1880 Mbps 13447 MB/min.
Full HD		59.94 fps	ALL-I	36 min.	2 hr. 27 min.	9 hr. 35 min.	230 Mbps 1656 MB/min
			IPB	1 hr. 33 min.	6 hr. 12 min.	24 hr. 16 min.	90 Mbps 655 MB/min.
			IPB (Light)	2 hr. 49 min.	11 hr. 19 min.	44 hr. 12 min.	50 Mbps 360 MB/min.
		29.97 fps 23.98 fps	ALL-I	1 hr. 2 min.	4 hr. 9 min.	16 hr. 16 min.	135 Mbps 977 MB/min.
			IPB	3 hr. 3 min.	12 hr. 13 min.	47 hr. 45 min.	45 Mbps 333 MB/min.
			IPB (Light)	5 hr. 1 min.	20 hr. 7 min.	78 hr. 37 min.	28 Mbps 202 MB/min.
Full HD		119.88 fps	ALL-I	18 min.	1 hr. 12 min.	4 hr. 43 min.	470 Mbps 3362 MB/min.
Time-lapse movies	8K	29.97 fps	ALL-I	6 min.	26 min	1 hr. 42 min.	1300 Mbps 9298 MB/min.
	4K			18 min.	1 hr. 12 min.	4 hr. 43 min.	470 Mbps 3362 MB/min.
	Full HD			1 hr. 3 min.	4 hr. 12 min.	16 hr. 27 min.	135 Mbps 966 MB/min.

Disclaimers for: Estimated Cumulative Data

^ 29.59 info / 8K recording.

* Bit rate indicates video output only, audio is not included.
* Movie recording is interrupted if the maximum recording time per movie, 29 min. 59 sec., is exceeded. (Time is different for High Frame Rate movies.)
* 8K movie recording (RAW, DCI, UHD) has restrictions on possible recording time due to the temperature rise. Max possible recording time is approx. 20 min. (at room temperature).
*4K 60p movie copped recording has restrictions on possible recording time due to the temperature rise. Max possible recording time is approx. 25 min. (at room temperature).
* Sound is not recored for approx. the last two frames when the compression method for movie recording quality is IPB or IPB-Light (audio:AAC) or [C.Fn 4-2 Audio compression] is set to [Enable]. Moreover, the video and sound may be slightly out of sync when movies are played back in Windows.

Card Performance Requirements

	Movie Recording Size		SD Card	
			8 bit	10 bit
8K	8K RAW	RAW	-	
	8K	ALL-I	-	
		IPB	Video Speed Class 60 or higher	Video Speed Class 90 or higher
4K	119.88 fps	ALL-I	-	
	59.94 fps	ALL-I	-	
		IPB	Video Speed Class 30 or higher	Video Speed Class 60 or higher
	Other than above	ALL-I	Video Speed Class 60 or higher	Video Speed Class 60 or higher
		IPB	UHS Speed Class 3 or higher	UHS Speed Class 3 or higher
Full HD	59.94 fps	ALL-I	SD Speed Class 6 or higher	UHS Speed Class 3 or higher
		IPB	SD Speed Class 10 or higher	UHS Speed Class 3 or higher
	Other than above	ALL-I	UHS Speed Class 3 or higher	UHS Speed Class 3 or higher
		IPB	SD Speed Class 6 or higher	SD Speed Class 6 or higher
		IPB (Light)	SD Speed Class 4 or higher	SD Speed Class 4 or higher
Time-lapse movies	8K	ALL-I	-	
	4K		Video Speed Class 60 or higher	Video Speed Class 60 or higher
	Full HD		UHS Speed Class 3 or higher	UHS Speed Class 3 or higher

* With Movie cropping set to [Disable], Movie digital IS set to [Off].

CFexpress Cards Performance

Card Maker	Card Name	Capacity (GB)	RAW movie 8K 29.97p Recording
ProGrade Digital	Cobalt	650	Supported
		325	Supported
	Gold	1024 (speed on label: 1600MB/s)	Not Supported
		1024 (speed on label: 1700MB/s)	Supported
		512 (speed on label: 1600MB/s)	Not Supported
		512 (speed on label: 1700MB/s)	Supported
		256	Not Supported
		120	Not Supported
SanDisk	Extreme Pro	512	Supported
		256	Not Supported
		128	Not Supported
		64	Not Supported
Lexar	-	512	Supported
		256	Supported
		128	Supported
		64	Supported
Sony	Tough	512	Supported
		256	Supported
		128	Supported

LCD Screen

Type	TFT color, liquid-crystal monitor
Monitor Size	3.2-inch (screen aspect ratio of 3:2) 3.15 in./8.01cm diagonal (2.63 in./6.67cm width, 1.75 in./4.44cm height)
Dots	Approx. 2.1 million dots
Coverage	Approx. 100% vertically/horizontally
Brightness Control	Manually adjustable to one of seven brightness levels
Coating	Clear View LCD II • Anti-smudge coating applied. • Anti-reflection coating not applied.
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	1.5x–10x (5 levels)	-
AF point display	Yes	-
Grid display	Off / 3×3 / 6×4 / 3×3+diag	-
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 / Protect / 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	
In-camera RAW image processing	Supported	-
Resizing	Supported	-
Cropping	Supported	-

Highlight Alert	The white areas with no image data will blink.
Histogram	Brightness and RGB

Quick Control Function

Function	The Quick Control screen is accessed by pressing the Quick Control button during still photo shooting.

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 fo)und images (only during image search)

Direct Printing

Compatible Printers	Not supported

DPOF: Digital Print Order Format

DPOF	Compliant to DPOF Version 1.1

Wi-Fi®

Standards Compliance	IEEE 802.11a/ac/b/g/n
Transmission Method	DS-SS modulation (IEEE 802.11b) OFDM modulation (IEEE 802.11g/n/a/ac)

<table>
<tr><td>Transition Frequency (Central Frequency)</td><td>2.4 GHz band
Frequency: 2412 to 2462 MHz
Channels: 1 to 11 channels

5 GHz band
Frequency: 5180 to 5825 MHz
Channels: 36 to 165 channels</td></tr>
<tr><td>Connection Method</td><td>(1) Camera access point mode
(2) Infrastructure mode</td></tr>
<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-PSK</td><td>AES</td><td>• ASCII 8 characters</td></tr>
<tr><td>Open</td><td colspan="2">Disable</td></tr>
<tr><td rowspan="5">Infrastructure</td><td rowspan="2">Open</td><td rowspan="2">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-PSK</td><td rowspan="2">TKIP
AES</td><td rowspan="2">• Hexadecimal 64 digits
• ASCII 8–63 characters</td></tr>
<tr><td>WPA2-PSK</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.</td></tr>
<tr><td>Remote Operation Using EOS Utility</td><td>The camera can be controlled via Wi-Fi® using EOS Utility.</td></tr>
<tr><td>Print from Wi-Fi® Printers</td><td>Not supported.</td></tr>
<tr><td>Send Images to a Web Service</td><td>Still photos (RAW, C-RAW, HEIF, and JPEG) and movies (MP4) can be uploaded to image.canon server album.
With the image.canon server, images can be sent to social media or a photo album link can be sent (by the image.canon specifications).</td></tr>
<tr><td colspan="2">Bluetooth®</td></tr>
<tr><td>Standards Compliance</td><td>Bluetooth Specification Version 5.0 compliant (Bluetooth low energy technology)</td></tr>
<tr><td>Transmission Method</td><td>GFSK modulation</td></tr>
</table>

Customization

Custom Functions

22 Custom Functions are settable.

Custom Controls

Customizable Buttons

Shutter button
Movie button
MODE button
AF-ON button
AE lock button
AF point button
Depth of field preview button
Lens AF stop button
Multi-function button
LCD panel illumination button
Set button
Multi-controller

Customizable Dials

Main dial
Quick control dial 1 & 2
Control ring

My Menu Registration

- Up to six top-tier menu items and Custom Functions can be registered.
- Up to five My Menu tabs can be added.

My Menu tab overall operations	• Adding a tab • Deleting tabs in a batch • Deleting all tab items • Setting the menu display
My Menu tab detailed operations	• Selecting a registered item • Sorting registered items • Deleting selected registered items • Deleting registered items in a batch • Deleting tabs • Changing a tab name (16 ASCII characters)

Interface

USB Terminal

Equivalent to Hi-Speed USB (USB 3.1 Gen 2)
- For PC communication
- Terminal type: USB Type-C
- Shared with terminal for in-camera charging with USB Power Adapter PD-E1.
- In-camera Charging: Equivalent to USB type-C (5 V/1.5 A), but use should be restricted to USB Power Adapter PD-E1.

Video Out Terminal

HDMI micro OUT terminal Type D (Resolution switches automatically) / CEC not compatible
- Images can be displayed through the HDMI output and on screen at the same time.
- Images will not be displayed unless [NTSC] or [PAL] is properly set according to the video system of the TV set.

Clean HDMI output

Provided

Microphone input terminal

3.5mm diameter stereo mini jack

Headphone terminal

3.5mm diameter stereo mini jack

Power Source	
Battery	LP-E6NH/LP-E6N/LP-E6* • With the AC Adapter AC-E6N + DC Coupler DR-E6, AC power is possible. • With the USB Power Adapter PD-E1, in-camera charging of LP-E6NH is possible. The USB Power Adapter PD-E1 is not compatible with powering the camera. * LP-E6 is automatically recognized as Mode C – Blinking White Drive mode regardless of capacity.
Battery Check	Automatic battery check when the power switch is turned ON. Displayed in 6 levels on top LCD panel. • Battery level can be checked on the LCD panel and in the viewfinder. Battery Info display in Set-up Menu: •Type of power source used. •Remaining capacity (percentage of battery charge remaining). •Recharge performance: (3-level display of battery's ability to hold a charge)
Start-up Time	Approx. 0.4 sec. • Based on CIPA testing standards.
Dimensions and Weight	
Dimensions (W x H x D)	Approx. 5.45 x 3.84 x 3.46 in. / 138 x 97.5 x 88.0mm • Based on CIPA standards.
Weight	Approx. 1.63 lbs. / 738g (including battery, CFexpress card; without body cap) Approx. 1.43 lbs. / 650g (body only; without battery, card or body cap)
Operating Environment	
Working Temperature Range	32–104°F / 0–+40°C
Working Humidity Range	85% or less