

Type	
<b>Type</b>	Digital single-lens non-reflex AF/AE camera
<b>Image Processor</b>	DIGIC X
<b>Recording Media</b>	CFexpress card <ul style="list-style-type: none"> <li>• Type B: Card slot</li> <li>• SD card speed class-compatible.</li> </ul> SD card <ul style="list-style-type: none"> <li>• Compatible with UHS-II</li> <li>• Eye-Fi cards and Multimedia cards (MMC) are not supported.</li> </ul>
<b>Compatible Lenses</b>	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)
<b>Lens Mount</b>	Canon RF mount
Image Sensor	
<b>Type</b>	CMOS sensor (compatible with Dual Pixel CMOS AF)
<b>Effective Pixels</b>	Approx. 45.0 megapixels
<b>Sensor Size</b>	Approx. 36.0 x 24.0 mm
<b>Pixel Size</b>	Approx. 4.40 μm square
<b>Total Pixels</b>	Approx. 47.1 megapixels
<b>Aspect Ratio</b>	3:2 (Horizontal: Vertical)
<b>Color Filter System</b>	RGB primary color filters
<b>Low Pass Filter</b>	Installed in front of the image sensor, non-detachable
<b>Dust Deletion Feature</b>	(1) Self Cleaning Sensor Unit <ul style="list-style-type: none"> <li>• Removes dust adhering to the low-pass filter.</li> <li>• 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).</li> <li>• After manually activated cleaning, the camera will automatically restart (Power OFF to ON).</li> <li>• When [Multi Shot Noise Reduction], [Multiple exposures], or [HDR mode] is set, [Clean now] and [Clean manually] cannot be selected.</li> </ul> (2) Dust Delete Data acquisition and appending <ul style="list-style-type: none"> <li>• The coordinates of the dust adhering to the low-pass filter are detected by a test shot and appended to subsequent images.</li> <li>• 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.</li> <li>• Not available with EF-S lenses, in cropped shooting or multi-exposure shooting.</li> </ul> (3) Manual cleaning (by hand)

Recording System	
<b>Recording Format</b>	Compliant to Design rule for Camera File system 2.0 and Exif 2.3*. *Supports time difference information in Exif 2.31.
<b>Image Format</b>	JPEG, HEIF, RAW (CR3, 14 bit RAW format), C-RAW (Canon original); Movies: ALL-I, IPB, RAW
<b>File Size</b>	<p>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</p> <p>1.6x (Crop)* Large/RAW/C-RAW: 5088 x 3392 Small 2: 2400 x 1600</p> <p>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</p> <p>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</p> <p>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</p> <ul style="list-style-type: none"> <li>• Values for Recording Pixels are rounded to the nearest 100,000 or 10,000.</li> <li>• For RAW and JPEG images, information outside the cropping area is not retained.</li> <li>• JPEG images are generated in the set aspect ratio.</li> <li>• RAW images are generated in [3:2], and the set aspect ratio is appended.</li> </ul> <p>* Indicate an inexact proportion.</p>
<b>File Numbering</b>	<p>The following file numbers can be set:</p> <ol style="list-style-type: none"> <li>1. File numbering methods <ol style="list-style-type: none"> <li>a. Continuous numbering <ol style="list-style-type: none"> <li>i. The numbering of captured images continues even after you replace the card.</li> </ol> </li> <li>b. Auto reset <ol style="list-style-type: none"> <li>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.</li> </ol> </li> </ol> </li> <li>2. Manual reset <ol style="list-style-type: none"> <li>a. Resets the file number to 0001, and creates a new folder automatically.</li> </ol> </li> </ol> <p>* When manually resetting the file number, folders can also be renamed.</p>
<b>RAW + JPEG / HEIF Simultaneous Recording</b>	Simultaneous recording of any combination of RAW/C-RAW and JPEG/HEIF image-recording quality is supported.

<b>Color Space</b>	Selectable between sRGB and Adobe RGB
<b>Picture Style</b>	<ul style="list-style-type: none"> <li>(1) Auto</li> <li>(2) Standard</li> <li>(3) Portrait</li> <li>(4) Landscape</li> <li>(5) Fine Detail</li> <li>(6) Neutral</li> <li>(7) Faithful</li> <li>(8) Monochrome</li> <li>(9) User Defined 1–3 <ul style="list-style-type: none"> <li>• In Scene Intelligent Auto, [Auto] will be set automatically.</li> <li>• [Standard] is the default setting for [User Def. 1–3].</li> </ul> </li> </ul>
<b>White Balance</b>	
<b>Settings</b>	<ul style="list-style-type: none"> <li>(1) Auto (Ambience priority/White priority)</li> <li>(2) Daylight</li> <li>(3) Shade</li> <li>(4) Cloudy*</li> <li>(5) Tungsten light</li> <li>(6) White fluorescent light</li> <li>(7) Flash</li> <li>(8) Custom (Custom WB)</li> <li>(9) Color temperature</li> </ul> <p>* Effective also in twilight and sunset.</p>
<b>Auto White Balance</b>	Option between ambience priority and white priority settings.
<b>White Balance Shift</b>	<ul style="list-style-type: none"> <li>Blue/amber bias: <math>\pm 9</math> levels</li> <li>Magenta/green bias: <math>\pm 9</math> levels</li> <li>Corrected in reference to the current WB mode's color temperature.</li> </ul>
<b>Viewfinder</b>	
<b>Type</b>	OLED color electronic viewfinder; approx. 5.76 million dots resolution
<b>Coverage</b>	Approx. 100% vertically and horizontally relative to the shooting image area (with image quality L, at approx. 23mm eyepoint).
<b>Magnification / Angle of View</b>	Approx. 0.76x / Approx. 35.5 degrees (with 50mm lens at infinity, $-1 \text{ m}^{-1}$ )
<b>Eye Point</b>	Approx. 23mm (at $-1 \text{ m}^{-1}$ from the eyepiece lens end)
<b>Dioptric Adjustment Range</b>	Approx. $-4.0$ to $+ 2.0 \text{ m}^{-1}$ (dpt)

<p><b>Viewfinder Information</b></p>	<ul style="list-style-type: none"> <li>(1) Maximum burst</li> <li>(2) Possible shots/Sec. until self-timer shoots</li> <li>(3) Focus Bracketing/ Multiple-exposure/HDR shooting/Multi Shot Noise Reduction/Bulb time/Interval timer</li> <li>(4) Shooting mode</li> <li>(5) AF method</li> <li>(6) AF operation</li> <li>(7) Image quality</li> <li>(8) Card</li> <li>(9) Drive mode</li> <li>(10) Metering mode</li> <li>(11) No. of remaining shots for focus bracketing, multiple exposures, or interval timer</li> <li>(12) Electronic level</li> <li>(13) Movie recording time available</li> <li>(14) Battery level</li> <li>(15) Image Stabilizer (IS mode)</li> <li>(16) Histogram (Brightness/RGB)</li> <li>(17) Quick Control button</li> <li>(18) Anti-flicker shooting</li> <li>(19) White balance/White balance correction</li> <li>(20) Picture style</li> <li>(21) Auto Lighting Optimizer</li> <li>(22) Still photo cropping / Aspect ratio</li> <li>(23) AF point (1-point AF)</li> <li>(24) AEB/FEB</li> <li>(25) View Assist</li> <li>(26) HDR PQ</li> <li>(27) Flash ready / FE lock / High-speed sync</li> <li>(28) Electronic shutter</li> <li>(29) Touch shutter / Create folder</li> <li>(30) AE lock</li> <li>(31) Shutter speed / Multi-function lock warning</li> <li>(32) Aperture value</li> <li>(33) Wi-Fi® function</li> <li>(34) Wi-Fi® signal strength</li> <li>(35) Bluetooth® function</li> <li>(36) Exposure simulation</li> <li>(37) Magnify button</li> <li>(38) ISO speed</li> <li>(39) Highlight tone priority</li> <li>(40) Exposure compensation</li> <li>(41) Exposure level indicator</li> </ul>
<p><b>Autofocus</b></p>	
<p><b>Focus Method</b></p>	<p>Dual Pixel CMOS AF</p>
<p><b>Number of AF zones available for Automatic Selection</b></p>	<p>AF area: Horizontal: Approx. 100% x Vertical: Approx. 100%          Stills: Max. 1053 zones (39 x 27)          Movies: Max. 819 zones (39 x 21)</p>
<p><b>AF Working Range</b></p>	<p>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.</p>
<p><b>Focusing brightness range (in movie recording)</b></p>	<p>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.</p>

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

<b>ISO Speed Range</b>	<b>Available ISO speeds; user-set</b>	
	Normal	ISO 100–51200 (in 1/3- or 1-stop increments)
	Expanded	L: equivalent to ISO 50, H: 102400
	<ul style="list-style-type: none"> <li>• For [Highlight tone priority], the settable ISO speed range will be ISO 200 to 51200.</li> <li>• Expanded ISO cannot be set for HDR mode or during HDR PQ shooting.</li> </ul>	
	<b>User-defined ISO range - still photo shooting</b>	
	<b>ISO Speed Range</b>	<b>ISO speed</b>
	<b>Minimum</b>	L (50)–51200 (in 1-stop increments)
	<b>Maximum</b>	ISO 100–H (102400) (in 1-stop increments)
	* Expanded ISO speeds are noted as being "equivalent" to these speeds.	
	<b>User-defined Auto ISO range - still photo shooting</b>	
<b>Auto Range</b>	<b>ISO speed</b>	
<b>Minimum</b>	ISO 100–25600 (in 1-stop increments)	
<b>Maximum</b>	ISO 200–51200 (in 1-stop increments)	
<b>ISO Auto details in still photo shooting</b>		
<b>Shooting mode</b>	<b>No Flash</b>	<b>Using Flash</b>
<b>Auto</b>	ISO 100-12800	ISO 100-6400* <sup>3</sup>
<b>P</b>	ISO 100* <sup>1</sup> * <sup>2</sup> -51200* <sup>2</sup>	ISO 100* <sup>1</sup> * <sup>2</sup> -6400* <sup>2</sup> * <sup>4</sup>
<b>TV</b>		
<b>AV</b>		
<b>M</b>		
<b>B</b>	ISO 400* <sup>3</sup>	
<p>* 1: ISO 200 when [Highlight tone priority] is set to [Enable] or [Enhanced].</p> <p>* 2: Varies depending on [Maximum] and [Minimum] of [Auto range].</p> <p>* 3: If outside the setting range, changed to the value most close to ISO 400.</p> <p>* 4: ISO 1600 when using a lens that is not compatible with "Variable control of maximum ISO Auto limit for E-TTL".</p>		
<b>Exposure Compensation</b>	Manual	±3 stops in 1/3- or 1/2-stop increments
	AEB	±3 stops in 1/3- or 1/2-stop increments
<b>AE Lock</b>	<p>(1) Auto AE lock</p> <ul style="list-style-type: none"> <li>• The metering mode for AE lock after one-shot focus can be customized.</li> </ul> <p>(2) User-applied AE lock</p> <ul style="list-style-type: none"> <li>• In the Fv, P, Tv, Av and M modes, enabled with the AE lock button. (Press again to update.)</li> <li>• Enabled in all metering modes.</li> </ul>	
<b>Shutter</b>		
<b>Type</b>	<p>Electronically controlled focal-plane shutter</p> <p>(1) Electronic first curtain or mechanical shutter</p> <p>(2) Electronic shutter*</p> <p>* 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].</p> <p>* 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.</p> <p>* 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.</p>	

<b>Shutter Speeds</b>	When [Mechanical] or [Elec. 1st-curtain] is set: 1/8000-30 sec, bulb When [Electronic] is set: 1/8000-0.5 sec.														
<b>X-sync Speed</b>	Mechanical Shutter: 1/200 sec. Elec. 1st-curtain: 1/250 sec.														
<b>Shutter Release</b>	Soft-touch electromagnetic release														
<b>Self Timer</b>	10-sec. delay, 2-sec. delay														
<b>Shutter Lag Time</b>	<table border="1"> <thead> <tr> <th></th> <th>Flash</th> <th>Mechanical Shutter</th> <th>Electronic 1st curtain</th> <th>Electronic shutter</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Shutter-release time lag *Measured with shutter button pressed fully from half-pressed position</td> <td>Not used</td> <td>Approx. 81 ms</td> <td>Approx. 50 ms</td> <td>Approx. 50 ms</td> </tr> <tr> <td>Used</td> <td>N/A</td> <td>N/A</td> <td>-</td> </tr> </tbody> </table> <p>Based on Canon testing standards.</p>		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	-
	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	-											
<b>Image Stabilization (IS mode)</b>															
<b>Still Photo IS</b>	In-body IS operation can be selected when using a non-IS lens. <ul style="list-style-type: none"> <li>• Always on</li> <li>• Only for shot</li> </ul>														
<b>External Speedlite</b>															
<b>E-TTL balance</b>	Ambience priority, standard, flash priority														
<b>Compatible E-TTL Speedlites</b>	Canon EX- and EL-series Speedlites														
<b>E-TTL II Flash Metering</b>	(1) Evaluative (Face Priority) (2) Evaluative (3) Average														
<b>Slow Sync (P/Av modes)</b>	(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.														
<b>Flash Function Menu</b>	Provided for EX- and EL-series Speedlites														
<b>Flash Exposure Compensation</b>	±3 stops in 1/3- or 1/2-stop increments														
<b>Continuous flash control</b>	1. E-TTL each shot 2. E-TTL 1st shot														

## Drive System

### Drive Modes and Continuous Shooting Speed

Drive Modes	Operating Modes	Mechanical Shutter	Electronic 1st curtain	Electronic shutter
Single Shooting		Yes	Yes	Yes
High-speed Continuous + shooting* <sup>1</sup>	Mode A* <sup>2</sup>	Approx. 12 shots/sec.		Approx. 20 shots/sec
	Mode B	Approx. 9.2 shots/sec.		
	Mode C	Approx. 6.8 shots/sec.		
High-speed Continuous shooting	Mode A* <sup>2</sup>	Approx. 6.0 shots/sec.	Approx. 8.0 shots/sec.	
	Mode B	Approx. 5.1 shots/sec.	Approx. 6.0 shots/sec.	
	Mode C	Approx. 3.9 shots/sec.	Approx. 4.9 shots/sec.	
Low-speed Continuous Shooting	Mode A* <sup>2</sup>	Approx. 3.0 shots/sec.		
	Mode B			
	Mode C			
Self-timer:10 sec / remote control		Yes		
Self-timer:2 sec / remote control		Yes		

\* Automatically switches among modes A (drive mode icon lit in green), B (drive mode icon lit in white), and C (drive mode icon flashing in white).

\* 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.

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

\*<sup>2</sup>: 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 Shooting with Mechanical Shutter or electronic 1st-curtain shutter, shot at approx. 12 fps**

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

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

**With Electronic shutter, shot at approx. 20 fps**

	Image Quality	Maximum Burst
		CFexpress Card
JPEG <sup>*4</sup>	L (fine)	170
RAW <sup>*4</sup>	RAW	83
	C-RAW	130
RAW+-JPEG <sup>*4</sup>	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**

**HDR PQ Shooting**

Disable / Enable

**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**

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

**HDR Mode-Continuous Shooting**

- (1) 1 shot only
- (2) Continuously

## Video Shooting

### Shooting Times

Resolution and Frame Rate	Mode	Approx. 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 oversampling)	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 Camera Recovery Time

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 (minutes) (23°C / 73°F)	Approximate maximum recording time after waiting period (minutes)
8K 30p	10	3
	20	8
4K 60p	10	10

**File Format**

**Normal Movies**

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

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

**RAW Movies**

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

**4K HQ movies (4K Fine)**

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

- \* Uses the highest frame rate (29.97 fps).
- \* SD card recording supported.
- \* EF-S cropping not supported.

<b>Video Recording Size and Frame Rates</b>	<b>Movie-recording Quality</b>		
	8K DCI	29.97 fps 24.00 fps 23.98 fps	RAW ALL-I IPB
	8K UHD	29.97 fps 23.98 fps	ALL-I IPB
	4K DCI (Movie cropping [Disable/Enable])	59.94 fps 29.97 fps 24.00 fps 23.98 fps	ALL-I IPB
	4K DCI (High Frame Rate)	119.88 fps	ALL-I
	4K (UHD) (Movie cropping [Disable/Enable])	59.94 fps 29.97 fps 23.98 fps	ALL-I IPB
	4K UHD (High Frame Rate)	119.88 fps	ALL-I
	Full HD (Movie cropping [Disable/Enable])	59.94 fps 29.97 fps 23.98 fps	ALL-I IPB
		29.97 fps	IPB (Light)

Canon Log: Off, HDR PQ: Off

Video Recording Size			Total Recording Time (approx.)			Bit Rate/File Size (approx.)	
			64 GB	256 GB	1 TB		
8K DCI	29.97 fps 25.00 fps 24.00 fps 23.98 fps	RAW	3 min.	13 min.	51 min.	2600 Mbps 18668 MB/min.	
		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.	
8K UHD	29.97 fps 25.00 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.	
4K DCI	59.94 fps 50.00 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.	
4K DCI 4K HQ - FINE	29.97 fps 25.00 fps 24.00 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.	
4K DCI	119.88 fps 100.00 fps	ALL-I	4 min.	18 min.	1 hr. 10 min.	1880 Mbps 13447 MB/min.	
4K UHD	59.94 fps 50.00 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.	
4K UHD 4K UHD HQ - Fine	29.97 fps 25.00 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.	
4K UHD	119.88 fps 100.00 fps	ALL-I	4 min.	18 min.	1 hr. 10 min.	1880 Mbps 13447 MB/min.	
Full HD	59.94 fps 50.00 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.	
	29.97 fps 25.00 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 655 MB/min.	
	29.97 fps 25.00 fps	IPB (Light)	11 hr. 35 min.	46 hr. 23 min.	181 hr. 13 min.	12 Mbps 88 MB/min.	
Time-lapse movies	8K	29.97 fps 25.00 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.

Continuous Shooting Time

**Continuous Shooting Time, Continued.**

**Canon Log: On or HDR PQ: On**

Video Recording Size			Total Recording Time (approx.)			Bit Rate/File Size (approx.)	
			64 GB	256 GB	1 TB		
8K DCI	29.97 fps 25.00 fps 24.00 fps 23.98 fps	RAW	3 min.	13 min.	51 min.	2600 Mbps 18668 MB/min.	
		ALL-I	6 min.	26 min.	1 hr. 42 min.	1300 Mbps 9309 MB/min.	
		IPB	12 min.	50min.	3 hr. 15 min.	680 Mbps 4875 MB/min.	
8K UHD	29.97 fps 25.00 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.	
4K DCI	59.94 fps 50.00 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.	
4K DCI 4K HQ - FINE	29.97 fps 25.00 fps 24.00 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.	
4K DCI	119.88 fps 100.00 fps	ALL-I	4 min.	18 min.	1 hr. 10 min.	1880 Mbps 13447 MB/min.	
4K UHD	59.94 fps 50.00 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.	
4K UHD 4K UHD HQ - Fine	29.97 fps 25.00 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.	
4K UHD	119.88 fps 100.00 fps	ALL-I	4 min.	18 min.	1 hr. 10 min.	1880 Mbps 13447 MB/min.	
Full HD	59.94 fps 50.00 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.	
	29.97 fps 25.00 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.	
	29.97 fps 25.00 fps	IPB (Light)	5 hr. 1 min.	20 hr. 7 min.	78 hr. 37 min.	28 Mbps 202 MB/min.	
Time-lapse movies	8K	29.97 fps 25.00 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.

\* 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		CFexpress card	SD Card	
				8 bit	10 bit
8K	8K RAW	RAW	Refer to the Canon Website	-	
	8K	ALL-I		-	
		IPB		Video Speed Class 60 or higher	Video Speed Class 90 or higher
4K	119.88 fps 100.00 fps	ALL-I		-	
	59.94 fps 50.00 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 50.00 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].

**Focusing**

Dual Pixel CMOS AF

**Exposure Compensation**

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

**LCD Screen**

**Type**

TFT color, liquid-crystal monitor

<b>Monitor Size</b>	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)
<b>Dots</b>	Approx. 2.1 million dots
<b>Coverage</b>	Approx. 100% vertically/horizontally
<b>Brightness Control</b>	Manually adjustable to one of seven brightness levels
<b>Coating</b>	Clear View LCD II <ul style="list-style-type: none"> <li>• Anti-smudge coating applied.</li> <li>• Anti-reflection coating not applied.</li> </ul>
<b>Interface Languages</b>	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

<b>Display Format</b>	<b>Item</b>	<b>Still Photo</b>	<b>Movie</b>
	<b>Magnify zoom display</b>	1.5x–10x (5 levels)	-
	<b>AF point display</b>	Yes	-
	<b>Grid display</b>	Off / 3×3 / 6×4 / 3×3+diag	-
	<b>Rating</b>	OFF / 1 to 5 Stars Select images / Select range / All images in folder / All images on card / All found images	
	<b>Image Search</b>	Search conditions Rating / Date / Folder / Protect / Type of file	
	<b>Protect</b>	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	
	<b>In-camera RAW image processing</b>	Supported	-
	<b>Resizing</b>	Supported	-
	<b>Cropping</b>	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 found images (only during image search)



Direct Printing																														
<b>Compatible Printers</b>	Not supported																													
DPOF: Digital Print Order Format																														
<b>DPOF</b>	Compliant to DPOF Version 1.1																													
Wi-Fi®																														
<b>Standards Compliance</b>	IEEE 802.11a/ac/b/g/n																													
<b>Transmission Method</b>	DS-SS modulation (IEEE 802.11b) OFDM modulation (IEEE 802.11g/n/a/ac)																													
<b>Transition Frequency (Central Frequency)</b>	<p><b>2.4 GHz band</b> Frequency: 2412 to 2462 MHz Channels: 1 to 11 channels</p> <p><b>5 GHz band</b> Frequency: 5180 to 5825 MHz Channels: 36 to 165 channels</p>																													
<b>Connection Method</b>	(1) Camera access point mode (2) Infrastructure mode																													
<b>Security</b>	<table border="1"> <thead> <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> </thead> <tbody> <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="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-PSK</td> <td>TKIP</td> <td>• Hexadecimal 64 digits</td> </tr> <tr> <td></td> <td>WPA2-PSK</td> <td>AES</td> <td>• ASCII 8–63 characters</td> </tr> </tbody> </table>	Connection Method	Authentication	Encryption		Encryption	Key Format and Length	Camera Access Point	WPA2-PSK	AES	• ASCII 8 characters	Open	Disable		Infrastructure	Open	WEP	• Hexadecimal 10 digits • Hexadecimal 26 digits • ASCII 5 characters • ASCII 13 characters	Disable		Shared key	WEP	Same as WEP above	WPA-PSK	TKIP	• Hexadecimal 64 digits		WPA2-PSK	AES	• ASCII 8–63 characters
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<b>Communication with a Smartphone</b>	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.																													
<b>Remote Operation Using EOS Utility</b>	The camera can be controlled via Wi-Fi® using EOS Utility.																													
<b>Print from Wi-Fi® Printers</b>	Not supported.																													
<b>Send Images to a Web Service</b>	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).																													
Bluetooth®																														
<b>Standards Compliance</b>	Bluetooth Specification Version 5.0 compliant (Bluetooth low energy technology)																													
<b>Transmission Method</b>	GFSK modulation																													

Customization																
<b>Custom Functions</b>	2 Custom Functions are settable.															
<b>Custom Controls</b>	<p>Customizable Buttons</p> <table border="1"> <tr><td>Shutter button</td></tr> <tr><td>Movie button</td></tr> <tr><td>MODE button</td></tr> <tr><td>AF-ON button</td></tr> <tr><td>AE lock button</td></tr> <tr><td>AF point button</td></tr> <tr><td>Depth of field preview button</td></tr> <tr><td>Lens AF stop button</td></tr> <tr><td>Multi-function button</td></tr> <tr><td>LCD panel illumination button</td></tr> <tr><td>Set button</td></tr> <tr><td>Multi-controller</td></tr> </table> <p>Customizable Dials</p> <table border="1"> <tr><td>Main dial</td></tr> <tr><td>Quick control dial 1 &amp; 2</td></tr> <tr><td>Control ring</td></tr> </table>	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	Main dial	Quick control dial 1 & 2	Control ring
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<b>My Menu Registration</b>	<ul style="list-style-type: none"> <li>• Up to six top-tier menu items and Custom Functions can be registered.</li> <li>• Up to five My Menu tabs can be added.</li> </ul> <table border="1"> <tr> <td>My Menu tab overall operations</td> <td> <ul style="list-style-type: none"> <li>• Adding a tab</li> <li>• Deleting tabs in a batch</li> <li>• Deleting all tab items</li> <li>• Setting the menu display</li> </ul> </td> </tr> <tr> <td>My Menu tab detailed operations</td> <td> <ul style="list-style-type: none"> <li>• Selecting a registered item</li> <li>• Sorting registered items</li> <li>• Deleting selected registered items</li> <li>• Deleting registered items in a batch</li> <li>• Deleting tabs</li> <li>• Changing a tab name (16 ASCII characters)</li> </ul> </td> </tr> </table>	My Menu tab overall operations	<ul style="list-style-type: none"> <li>• Adding a tab</li> <li>• Deleting tabs in a batch</li> <li>• Deleting all tab items</li> <li>• Setting the menu display</li> </ul>	My Menu tab detailed operations	<ul style="list-style-type: none"> <li>• Selecting a registered item</li> <li>• Sorting registered items</li> <li>• Deleting selected registered items</li> <li>• Deleting registered items in a batch</li> <li>• Deleting tabs</li> <li>• Changing a tab name (16 ASCII characters)</li> </ul>											
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Interface																
<b>USB Terminal</b>	<p>Equivalent to Hi-Speed USB (USB 3.1 Gen 2)</p> <ul style="list-style-type: none"> <li>• For PC communication</li> <li>• Terminal type: USB Type-C</li> <li>• Shared with terminal for in-camera charging with USB Power Adapter PD-E1.</li> <li>• In-camera Charging: Equivalent to USB type-C (5 V/1.5 A), but use should be restricted to USB Power Adapter PD-E1.</li> </ul>															
<b>Video Out Terminal</b>	<p>HDMI micro OUT terminal Type D (Resolution switches automatically) / CEC not compatible</p> <ul style="list-style-type: none"> <li>• Images can be displayed through the HDMI output and on screen at the same time.</li> <li>• Images will not be displayed unless [NTSC] or [PAL] is properly set according to the video system of the TV set.</li> </ul>															
<b>Microphone input terminal</b>	3.5mm diameter stereo mini jack															
<b>Headphone terminal</b>	3.5mm diameter stereo mini jack															

Power Source	
<b>Battery</b>	LP-E6NH/LP-E6N/LP-E6 <ul style="list-style-type: none"> <li>• With the AC Adapter AC-E6N + DC Coupler DR-E6, AC power is possible.</li> <li>• 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.</li> </ul>
<b>Battery Check</b>	Automatic battery check when the power switch is turned ON. Displayed in 6 levels on top LCD panel. <ul style="list-style-type: none"> <li>• Battery level can be checked on the LCD panel and in the viewfinder.</li> </ul> Battery Info display in Set-up Menu: <ul style="list-style-type: none"> <li>• Type of power source used.</li> <li>• Remaining capacity (percentage of battery charge remaining).</li> <li>• Recharge performance: (3-level display of battery's ability to hold a charge)</li> </ul>
<b>Start-up Time</b>	Approx. 0.4 sec. <ul style="list-style-type: none"> <li>• Based on CIPA testing standards.</li> </ul>
Dimensions and Weight	
<b>Dimensions (W x H x D)</b>	Approx. 5.45 x 3.84 x 3.46 in. / 138 x 97.5 x 88.0mm <ul style="list-style-type: none"> <li>• Based on CIPA standards.</li> </ul>
<b>Weight</b>	Approx. 1.63 lbs. / 738g (including battery, SD memory card; without body cap) Approx. 1.43 lbs. / 650g (body only; without battery, card or body cap)
Operating Environment	
<b>Working Temperature Range</b>	32–104°F / 0–+40°C
<b>Working Humidity Range</b>	85% or less