

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> </ul> SD card <ul style="list-style-type: none"> <li>• SD card speed class-compatible.</li> <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>HDR Mode-Continuous Shooting</b>	(1) 1 shot only (2) Continuously (3) Multiple Exposure
<b>Advanced shooting operations</b>	(1) Focus Bracketing (2) Interval Timer (3) Bulb Timer (4) Multi-Shot NR
<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>	<ol 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> </ol>
<b>White Balance</b>	
<b>Settings</b>	<ol 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> </ol> <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>	<p>Blue/amber bias: <math>\pm 9</math> levels</p> <p>Magenta/green bias: <math>\pm 9</math> levels</p> <p>Corrected in reference to the current WB mode's color temperature.</p>
<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>Dioptic 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 II</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>

<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 zones [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>	
	<b>Normal</b>	ISO 100–51200 (in 1/3- or 1-stop increments)
	<b>Expanded</b>	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*3
<b>P</b>	ISO 100*1*2-51200*2	ISO 100*1*2-6400*2*4
<b>TV</b>		
<b>AV</b>		
<b>M</b>		
<b>B</b>	ISO 400*3	
<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>	<b>Manual</b>	±3 stops in 1/3- or 1/2-stop increments
	<b>AEB</b>	±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>(1) Mechanical</p> <p>(2) Electronic 1st-Curtain</p> <p>(3) Electronic Shutter (1st and 2nd curtain - silent*)</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>	Optical IS with RF and EF lenses equipped with Image Stabilization. • Always on • Only for shot														
<b>Video IS</b>	A narrower angle of view is used when digital image stabilization is selected in the menu. This is equivalent to approx. 1.1x longer focal length when Electronic Image Stabilization mode (Standard) is selected. Also, this is equivalent to approx. 1.43x longer focal length when Electronic Image Stabilization mode (High) is selected.														
<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	Icon Display	Mechanical Shutter	Electronic 1st curtain	Electronic shutter
Single Shooting		Yes	Yes	Yes
High-speed Continuous + shooting* <sup>1</sup>	Green* <sup>2</sup>	Approx. 12 shots/sec.		Approx. 20 shots/sec
	White	Approx. 9.2 shots/sec.		
	White (Blinking)	Approx. 6.8 shots/sec.		
High-speed Continuous shooting	Green* <sup>2</sup>	Approx. 6.0 shots/sec.	Approx. 8.0 shots/sec.	
	White	Approx. 5.1 shots/sec.	Approx. 6.0 shots/sec.	
	White (Blinking)	Approx. 3.9 shots/sec.	Approx. 4.9 shots/sec.	
Low-speed Continuous Shooting	Green* <sup>2</sup>	Approx. 3.0 shots/sec.		
	White			
	White (Blinking)			
Self-timer:10 sec / remote control		Yes		
Self-timer:2 sec / remote control		Yes		

\* 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 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*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

**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*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 - Still**

**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)

**Video Shooting**

**Focusing**

Dual Pixel CMOS AF

<b>Exposure Compensation</b>	±3 stops in 1/3- or 1/2-stop increments		
<b>Canon Log</b>	Provided (Off / Canon Log 3)		
<b>Video Recording Size and Frame Rates</b>	<b>RAW - CFexpress card / SD (SDXC only) card*</b>		
	<b>Resolution</b>	<b>Image Mode</b>	<b>Bit rate (frame rate) (* All 12-bit sampling)</b>
	8192x4320 (Full Frame)	RAW LT	2570 Mbps (59.94P) / 2140 Mbps (50.00P) / 1290 Mbps (29.97P) / 1070 Mbps (25.00P) / 1030 Mbps (23.98P/24.00P)
		RAW RS	1980 Mbps (29.97P) / 1650 Mbps (25.00P) / 1580 Mbps (23.98P/24.00P)
	5952x3140 (Super 35mm)	RAW LT	1360 Mbps (59.94P) / 1140 Mbps (50.00P) / 679 Mbps (29.97P) / 566 Mbps (25.00P)(*) / 544 Mbps (23.98P/24.00P)(*)
		RAW RS	2090 Mbps (59.94P) / 1750 Mbps (50.00P) / 1050 Mbps (29.97P) / 871 Mbps (25.00P) / 836 Mbps (23.98P/24.00P)
		RAW HQ	2120 Mbps (29.97) / 1770 Mbps (25.00) / 1700 Mbps (23.98/24.00)
	2976x1570 (Super 16mm)	RAW LT(*)	344 Mbps (59.94P) / 287 Mbps (50.00P) / 172 Mbps (29.97P) / 144 Mbps (25.00P) / 138 Mbps (23.98P/24.00P)
		RAW RS	529 Mbps (59.94P) / 441 Mbps (50.00P) / 265 Mbps (29.97P) / 221 Mbps (25.00P) / 212 Mbps (23.98P/24.00P)
		RAW HQ	1080 Mbps (59.94P) / 896 Mbps (50.00P) / 537 Mbps (29.97P)(*) / 448 Mbps (25.00P)(*) / 430 Mbps (23.98P/24.00P)(*)
	* Recording is possible only when the bit rate of the SD card is 650 Mbps or less (recording is not possible at larger bit rates).		

**Video Recording Size and Frame Rates, Continued**

<b>XF-AVC - CFexpress cards / SD cards*</b>			
<b>Resolution</b>	<b>Frame Rate</b>	<b>Color Sampling</b>	<b>Bit Rate</b>
4096x2160/3840x2160 (Full Frame / Super 35mm)	59.94P / 50.00P	YCC422 10 bit	810 Mbps Intra-frame
			260 Mbps Long GOP
	29.97P/ 25.00P/ 23.98P/ 24.00P		410 Mbps Intra-frame
			160 Mbps Long GOP
2048x1080/1920x1080	59.94P / 50.00P		310 Mbps Intra-frame
			50 Mbps Long GOP
	29.97P/ 25.00P/ 23.98P/ 24.00P 59.94i / 50.00i		160 Mbps Intra-frame
			50 Mbps Long GOP
1280x720	59.94P / 50.00P	24 Mbps Long GOP	
<b>MP4</b>			
8192x4320/7680x4320 (Full Frame only)	29.97P/ 25.00P/ 23.98P/ 24.00P	YCC422 10 bit [MP4(HEVC)]	540 Mbps Long GOP
		YCC420 10 bit [MP4(HEVC)]	400 Mbps Long GOP
4096x2160 / 3840x2160	59.94P / 50.00P	YCC422 10 bit [MP4(HEVC)]	225 Mbps Long GOP
		YCC420 10 bit [MP4(HEVC)]	170 Mbps Long GOP
		YCC420 8 bit [MP4(H.264)]	150 Mbps Long GOP
	29.97P/ 25.00P/ 23.98P/ 24.00P	YCC422 10 bit [MP4(HEVC)]	135 Mbps Long GOP
		YCC420 10 bit [MP4(HEVC)]	100 Mbps Long GOP
		YCC420 8 bit [MP4(H.264)]	150 Mbps Long GOP
2048x1080/1920x1080	59.94P/50.00P/ 29.97P/ 25.00P/ 23.98P/24.00P	YCC422 10 bit [MP4(HEVC)]	50 Mbps Long GOP
		YCC420 10 bit [MP4(HEVC)]	35 Mbps Long GOP
		YCC420 8 bit [MP4(H.264)]	
1280x720	59.94P / 50.00P	YCC422 10 bit [MP4(HEVC)]	12 Mbps Long GOP
		YCC420 10 bit [MP4(HEVC)]	9 Mbps Long GOP
		YCC420 8 bit [MP4(H.264)]	8 Mbps Long GOP

\* Recording is possible only when the bit rate of the SD card is 650 Mbps or less (recording is not possible at larger bit rates).

**Recording Times**

**CFexpress Card Recording Time**

<b>Cinema RAW Light</b>											
	2570 Mbps	2120 Mbps	2090 Mbps	1980 Mbps	1700 Mbps	1580 Mbps	1360 Mbps	1290 Mbps	1080 Mbps	1030 Mbps	836 Mbps
512 GB	24 mins.	30 mins.	30 mins.	32 mins.	37 mins.	40 mins.	47 mins.	49 mins.	59 mins.	62 mins.	76 mins.
<b>XF-AVC</b>											
	810 Mbps	410 Mbps	310 Mbps	260 Mbps	160 Mbps						
512 GB	79 mins.	156 mins.	207 mins.	246 mins.	401 mins.						
<b>MP4</b>											
	540 Mbps	400 Mbps	225 Mbps	170 Mbps	150 Mbps	135 Mbps	100 Mbps	50 Mbps	35 Mbps		
512 GB	118 mins.	160 mins.	285 mins.	377 mins.	428 mins.	475 mins.	642 mins.	1284 mins.	1834 mins.		

**Recording Times,  
Continued**

**SD Card Recording Time**

	<b>Cinema RAW Light</b>								
	544 Mbps	537 Mbps	529 Mbps	430 Mbps	344 Mbps	265 Mbps	212 Mbps	172 Mbps	138 Mbps
64 GB	14 mins.	14 mins.	15 mins.	18 mins.	23 mins.	30 mins.	37 mins.	46 mins.	58 mins.
128 GB	29 mins.	29 mins.	30 mins.	37 mins.	46 mins.	60 mins.	75 mins.	93 mins.	116 mins.
256 GB	59 mins.	59 mins.	60 mins.	74 mins.	93 mins.	121 mins.	151 mins.	166 mins.	232 mins.
512 GB	118 mins.	119 mins.	121 mins.	149 mins.	186 mins.	242 mins.	302 mins.	373 mins.	465 mins.
	<b>XF-AVC</b>								
	410 Mbps	310 Mbps	260 Mbps	160 Mbps	50 Mbps	35 Mbps	24 Mbps	17 Mbps	
64 GB	19 mins.	25 mins.	30 mins.	50 mins.	160 mins.	229 mins.	334 mins.	472 mins.	
128 GB	39 mins.	51 mins.	61 mins.	100 mins.	321 mins.	458 mins.	668 mins.	944 mins.	
256 GB	78 mins.	103 mins.	123 mins.	200 mins.	642 mins.	917 mins.	1337 mins.	1888 mins.	
512 GB	156 mins.	207 mins.	246 mins.	401 mins.	1284 mins.	1834 mins.	2675 mins.	3776 mins.	
	<b>MP4</b>								
	540 Mbps	400 Mbps	225 Mbps	170 Mbps	150 Mbps	135 Mbps	100 Mbps	50 Mbps	35 Mbps
64 GB	14 mins.	20 mins.	35 mins.	47 mins.	53 mins.	59 mins.	80 mins.	160 mins.	229 mins.
128 GB	29 mins.	40 mins.	71 mins.	94 mins.	107 mins.	118 mins.	160 mins.	321 mins.	458 mins.
256 GB	59 mins.	80 mins.	142 mins.	188 mins.	214 mins.	237 mins.	321 mins.	642 mins.	917 mins.
512 GB	118 mins.	160 mins.	285 mins.	377 mins.	428 mins.	475 mins.	642 mins.	1284 mins.	1834 mins.

LCD Screen																															
<b>Type</b>	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>	12 (English, German, Spanish, French, Portuguese, Italian, Ukraine, Russian, Polish, Simplified Chinese, Korean, Japanese)																														
Playback																															
<b>Display Format</b>	<table border="1"> <thead> <tr> <th>Item</th> <th>Still Photo</th> <th>Movie</th> </tr> </thead> <tbody> <tr> <td><b>Magnify zoom display</b></td> <td>1.5x–10x (5 levels)</td> <td>-</td> </tr> <tr> <td><b>AF point display</b></td> <td>Yes</td> <td>-</td> </tr> <tr> <td><b>Grid display</b></td> <td>Off / 3×3 / 6×4 / 3×3+diag</td> <td>-</td> </tr> <tr> <td><b>Rating</b></td> <td>Select images / Select range / All images in folder / All images on card / All found images</td> <td>OFF / 1 to 5 Stars</td> </tr> <tr> <td><b>Image Search</b></td> <td>Search conditions Rating / Date / Folder / Protect / Type of file</td> <td></td> </tr> <tr> <td><b>Protect</b></td> <td>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</td> <td></td> </tr> <tr> <td><b>In-camera RAW image processing</b></td> <td>Supported</td> <td>-</td> </tr> <tr> <td><b>Resizing</b></td> <td>Supported</td> <td>-</td> </tr> <tr> <td><b>Cropping</b></td> <td>Supported</td> <td>-</td> </tr> </tbody> </table>	Item	Still Photo	Movie	<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>	Select images / Select range / All images in folder / All images on card / All found images	OFF / 1 to 5 Stars	<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	-
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<b>Cropping</b>	Supported	-																													
<b>Highlight Alert</b>	The white areas with no image data will blink.																														
<b>Histogram</b>	Brightness and RGB																														
Quick Control Function																															
<b>Function</b>	The Quick Control screen is accessed by pressing the Quick Control button during still photo shooting.																														

Image Protection and Erase																														
<b>Protection</b>	(1) Single image (select image) (2) Select range (3) All images in a folder (4) All images on card <ul style="list-style-type: none"> <li>• Image browsing and image search can be based on ratings.</li> <li>• Ratings-based image selections also possible with DPP.</li> </ul> (5) All found images (only during image search)																													
<b>Erase</b>	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>	<b>2.4 GHz band</b> Frequency: 2412 to 2462 MHz Channels: 1 to 11 channels  <b>5 GHz band</b> Frequency: 5180 to 5825 MHz Channels: 36 to 165 channels																													
<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).															
<b>Bluetooth®</b>																
<b>Standards Compliance</b>	Bluetooth Specification Version 5.0 compliant (Bluetooth low energy technology)															
<b>Transmission Method</b>	GFSK modulation															
<b>Customization</b>																
<b>Custom Functions</b>	22 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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<b>Interface</b>					
<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> <li>• Video Output (UVC)</li> <li>• Canon App(s) for iPhone</li> <li>• PTP connection/GP-E2</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>Clean HDMI output</b>	Provided				
<b>Microphone input terminal</b>	3.5mm diameter stereo mini jack				
<b>Headphone terminal</b>	3.5mm diameter stereo mini jack				
<b>Power Source</b>					
<b>Battery</b>	<p>LP-E6NH/LP-E6N/LP-E6*</p> <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.</li> </ul> <p>* LP-E6 is automatically recognized as Mode C – Blinking White Drive mode regardless of capacity.</p>				
<b>Battery Check</b>	<p>Automatic battery check when the power switch is turned ON. Displayed in 6 levels on top LCD panel.</p> <ul style="list-style-type: none"> <li>• Battery level can be checked on the LCD panel and in the viewfinder.</li> </ul> <p>Battery Info display in Set-up Menu:</p> <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>	<p>Approx. 0.4 sec.</p> <ul style="list-style-type: none"> <li>• Based on CIPA testing standards.</li> </ul>				
<b>Dimensions and Weight</b>					
<b>Dimensions (W x H x D)</b>	<p>Approx. 5.6 x 4.0 x 4.4 in. / 142 x 101 x 111mm</p> <ul style="list-style-type: none"> <li>• Based on CIPA standards.</li> </ul>				

<b>Weight</b>	Approx. 1.7 lbs. / 770g (including battery, CFexpress card; without body cap) Approx. 1.5 lbs. / 680g (body only; without battery, card or body cap)
<b>Operating Environment</b>	
<b>Working Temperature Range</b>	32–104°F / 0–+40°C
<b>Working Humidity Range</b>	85% or less

# RF 24-70mm F2.8 L IS USM

## Specifications

Lens	
Focal Length & Maximum Aperture	24-70mm f/2.8
Minimum Focusing Distance	Wide: 0.69 ft./0.21 m Telephoto: 1.25 ft./0.38 m
Maximum Magnification	0.3x (at 32mm)
Lens Construction	21 elements in 15 groups
Special Elements	3 Aspherical lenses, 3 UD lenses
Filter Size Diameter	Ø82 mm
Aperture Blades	9 (circular)
IS (CIPA Standard Correction Effect)	5 stops (When using the EOS R camera with a 70mm focal length.)
Focus Drive System	Nano USM
Minimum Overall Length	Approx. 4.95 in. / 125.7 mm
Maximum Diameter	Approx. Ø3.48 in. / Ø88.5 mm
Weight	Approx. 1.98 lbs. / 900 g