



*PowerShot* **ZOOM**

## Specifications

Type of Camera													
<b>Type</b>	Monocular telephoto compact digital camera												
<b>Imaging Processor</b>	DIGIC 8												
Image Sensor													
<b>Type</b>	CMOS sensor, 1/3-inch type <sup>^</sup> (sensor aspect ratio: 4:3) <sup>^</sup> The center portion of a 1/2.3-inch type CMOS sensor is used.												
<b>Pixels</b>	Effective Pixels: 12.1 Megapixels Total Pixels: Approx. 21.1M * Rounded to the nearest 100,000.												
<b>Self-cleaning Sensor</b>	Not provided.												
Lens													
<b>Focal Length</b>	Optical 4x lens that switches between two focal lengths. <ul style="list-style-type: none"> <li>• Telephoto side: approx. 100mm – 35mm equivalent (13.8mm)</li> <li>• Super-tele side: approx. 400mm – 35mm equivalent (55.5mm)</li> <li>• Digital Zoom: approx. 800mm – 35mm equivalent (2x digital)</li> </ul> *Focal length can be checked through the viewfinder.												
<b>Lens Configuration</b>	11 elements in 8 groups *Aspherical lens, extra-low dispersion lens not included * Front lens surface has a cover glass (Not included in the lens construction)												
<b>Digital Zoom</b>	Enables approx. 2x magnification												
<b>Step Zoom</b>	<ul style="list-style-type: none"> <li>• Switches among focal lengths in the following order, as controlled with the &lt;ZOOM&gt; button:</li> <li>• Equivalent to approx. 100mm (optical) -&gt; equivalent to approx. 400mm (optical) -&gt; equivalent to approx 800mm (digital).</li> </ul>												
<b>Telephoto Magnification</b>	<table border="1"> <thead> <tr> <th></th> <th>Still Photo Shooting</th> <th>Movie Recording</th> </tr> </thead> <tbody> <tr> <td>Equivalent to approx. 100mm</td> <td>Approx. 1.2x</td> <td>Approx. 1.2x</td> </tr> <tr> <td>Equivalent to approx. 400mm</td> <td>Approx. 4.8x</td> <td>Approx. 4.8x</td> </tr> <tr> <td>Equivalent to approx. 800mm</td> <td>Approx. 9.6x</td> <td>Approx. 9.6x</td> </tr> </tbody> </table>		Still Photo Shooting	Movie Recording	Equivalent to approx. 100mm	Approx. 1.2x	Approx. 1.2x	Equivalent to approx. 400mm	Approx. 4.8x	Approx. 4.8x	Equivalent to approx. 800mm	Approx. 9.6x	Approx. 9.6x
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<b>Focusing Range</b>	<ul style="list-style-type: none"> <li>• Wide-angle: Approx. 3.28 ft. - Infinity / 1m - Infinity.</li> <li>• Telephoto: Approx. 14.76 ft. - Infinity / 4.5m - Infinity.</li> </ul> * Macro functionality not provided. Measure from the tip of the lens barrel.												
<b>Aperture Number</b>	<ul style="list-style-type: none"> <li>• Wide-angle side: f/5.6</li> <li>• Telephoto side: f/6.3</li> </ul> * No aperture control.												
<b>Autofocus System</b>	TTL Autofocus												
<b>AF Method</b>	<ul style="list-style-type: none"> <li>• Face+Tracking</li> <li>• 1-point AF</li> </ul> *Fixed at the center of the screen for 1-point AF.												

Image Stabilization										
<b>Image Stabilization Features</b>	Lens shift system * 4-axis correction (Yaw/Pitch/X/Y) * Image stabilization cannot be deactivated.									
<b>Powered IS</b>	Supported.									
<b>Dual Sensing IS</b>	Supported.									
Viewfinder & Monitor										
<b>Viewfinder</b>	Electronic Viewfinder (Approx. 2.36 million dots)									
<b>Screen Size</b>	0.39 inch-type									
<b>Eyepoint</b>	Approx. 22mm (at -1m <sup>-1</sup> from eyepiece lens end)									
<b>Dioptric Adjustment</b>	Approx. -3 to +1m <sup>-1</sup> (dpf)									
<b>LCD Pixels</b>	Approx. 1.04 million dots									
<b>LCD Coverage</b>	Approx. 100%									
Recording Media										
<b>Recording Media Type</b>	microSD / microSDHC / microSDXC memory card *SD speed class compatible. * UHS speed class compatible. * UHS-I compatible.									
<b>Card Access Indicator</b>	Lamp lights up / blinks.									
<b>Read Error Warning</b>	The error warnings are displayed in the viewfinder, and the shutter release locks.									
<b>Card Formatting</b>	Low-level formatting. * Logical formatting not available.									
Recording System										
<b>Image Recording Format</b>	Compliant to Design rule for Camera File system 2.0 and Exif. 2.31 * Supports time difference information.									
<b>Image Type / Extension</b>	<table border="1"> <thead> <tr> <th colspan="2">Image Type</th> <th>Extension</th> </tr> </thead> <tbody> <tr> <td>Still photos</td> <td>JPEG</td> <td>JPG</td> </tr> <tr> <td>Movies</td> <td>MP4</td> <td>MP4</td> </tr> </tbody> </table> * RAW / C-RAW / HEIF shooting are not supported.	Image Type		Extension	Still photos	JPEG	JPG	Movies	MP4	MP4
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<b>File Number</b>	Auto reset * When you replace the card, the numbering will be reset to start from 0001. If the new card already contains images, the number will continue from the last recorded image in the card. * Continuous numbering and manual resetting are not available.									
Still Photo Recording										
<b>Image Quality / Recorded Pixels</b>	<table border="1"> <thead> <tr> <th>Image Quality</th> <th>Recorded pixels</th> </tr> </thead> <tbody> <tr> <td>JPEG Large / Fine</td> <td>12.0 megapixels (4000 x 3000)</td> </tr> </tbody> </table> * Image quality adjustment not available. * Lower image quality when equivalent to approx. 800mm, due to digital cropping.	Image Quality	Recorded pixels	JPEG Large / Fine	12.0 megapixels (4000 x 3000)					
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<b>Aspect Ratio</b>	Fixed at 4:3 and not adjustable.									

<b>Image File Size / Number of Possible Shots / Maximum Burst</b>	<table border="1"> <thead> <tr> <th>File size (Approx. MB)</th> <th>Possible Shots (Approx.)</th> <th>Maximum Burst (Approx.)</th> </tr> </thead> <tbody> <tr> <td>4.6</td> <td>11460</td> <td>50</td> </tr> </tbody> </table>	File size (Approx. MB)	Possible Shots (Approx.)	Maximum Burst (Approx.)	4.6	11460	50						
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<p>* Number of shots available and maximum burst in high-speed continuous shooting driving mode.  * Number of shots available and maximum burst apply to a 64 GB card conforming to Canon testing standards.  * File size, number of possible shots, and maximum burst vary depending on shooting conditions (including subject and memory card brand).</p>													
<b>Exposure Composition</b>	Supported +/- 3 stops												
<b>Drive Mode</b>	Single Shooting, Continuous Shooting												
<b>Movie Recording</b>													
<b>Movie Recording Format</b>	<table border="1"> <thead> <tr> <th>Container Format</th> <td>MP4</td> </tr> </thead> <tbody> <tr> <th>Video</th> <td>H.264 / MPEG-4 AVC * Variable (averaged) bit rate</td> </tr> <tr> <th>Audio</th> <td>MPEG-4 AAC-LC (stereo)</td> </tr> </tbody> </table>	Container Format	MP4	Video	H.264 / MPEG-4 AVC * Variable (averaged) bit rate	Audio	MPEG-4 AAC-LC (stereo)						
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Video	H.264 / MPEG-4 AVC * Variable (averaged) bit rate												
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<b>Recording Size / Compression Method</b>	Full HD: 1920x1080 / Standard (IPB) * Movie recording size adjustment not available.												
<b>Frame Rate</b>	When set to NTSC: 29.97 / 23.98 fps												
<b>Movie Bit Rate</b>	Approx. 30 Mbps * Video only, not including audio.												
<b>File Size</b>	Approx. 217 MB/min.												
<b>Maximum Recording Time</b>	9 min. 59 sec. * Movie recording is not possible during Wi-Fi connection												
<b>Total Cumulative Recording Time Available</b>	<table border="1"> <tbody> <tr> <td>8 GB</td> <td>Approx. 35 min.</td> </tr> <tr> <td>32 GB</td> <td>Approx. 2 hr. 33 min.</td> </tr> <tr> <td>128 GB</td> <td>Approx. 9 hr. 38 min.</td> </tr> </tbody> </table>	8 GB	Approx. 35 min.	32 GB	Approx. 2 hr. 33 min.	128 GB	Approx. 9 hr. 38 min.						
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Card	Format	Maximum File Size											
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microSDXC	exFAT	Unlimited											
<b>Card Performance Requirements (movie recording)</b>	Micro SD card with SD Speed Class 6 or higher												
<b>Color Sampling Method</b>	YCbCr 4:2:0 (8 bit)												
<b>Video Range</b>	Full range (0-255)												
<b>Recording Microphone</b>	Built-in stereo microphone * External microphone IN terminal not provided.												
<b>HDMI Output</b>	Not supported * HDMI OUT terminal not provided.												
<b>White Balance</b>													
<b>Mode</b>	Auto ( White balance presets not provided.)												
<b>White Balance Shift</b>	Not supported.												
<b>White Balance Bracketing</b>	Not supported.												

Flash	
<b>Built-in Flash</b>	Not provided.
<b>External Flash</b>	Not supported.
Playback	
<b>Playback Methods</b>	<ul style="list-style-type: none"> <li>• Playback in the camera's electronic viewfinder.</li> <li>• Playback on a smartphone (requires Camera Connect app (Remote control from app is not available for video)).</li> <li>• Playback on a computer (requires compatible software).</li> </ul>
<b>Display Conditions</b>	Still photos: Images saved in Design rule for Camera File system format. Movies: Movie files in MP4 format * May not support playback of images from cameras other than PowerShot Zoom.
<b>Playback Functions</b>	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p><b>Playback</b></p> <ul style="list-style-type: none"> <li>- Playback</li> <li>- Skip backwars (approx. 4 sec.)</li> <li>- Previous frame</li> <li>- Next frame</li> <li>- Skip forward (approx. 4 sec.)</li> </ul> </div> <p>* slow motion, editing out first and last scenes, and volume adjustment are not available.</p>
<b>Shooting Information Display</b>	Basic information display * Display without information and detailed information display are not available.
<b>Erasing Images</b>	Select and erase images / All images on card.
Image Processing After Shooting	
<b>Print Order (DPOF)</b>	Not supported
<b>Direct Printing (PictBridge)</b>	Wireless connections: Not supported Wired Connections: Not supported
Menu Function	
<b>Display Device</b>	Shown in the electornic viewfinder
<b>Description</b>	<ul style="list-style-type: none"> <li>• Shooting settings</li> <li>• Playback settings</li> <li>• Wireless communication settings</li> <li>• Function settings</li> </ul>
<b>Display Languages</b>	31 languages are available. English, German, French, Dutch, Danish, Portuguese, Finnish, Italian, Ukrainian, Norwegian, Swedish, Spanish, Greek, Russian, Polish, Czech, Hungarian, Vietnamese, Hindi, Romanian, Turksih, Arabic, Thai, Simplified Chinese, Traditional Chinese, Korean, Malay, Indonesian, Persian, Hewbrew, and Japanese.
<b>Firmware Updates</b>	Provided. * Firmware can be updated using Camera Connect (transferring firmware from Camera Connect to the camera).
External Interface	
<b>Terminal Type</b>	USB Type-C
<b>Applications</b>	For charging the built-in battery and supplying the power to the camera. * Recognized as a USB device when connected to a computer, and images on the memory card in the PowerShot Zoom camera can be browsed and imported (transfer speed equivalent to Hi-Speed USB (USB 2.0)).

<b>HDMI OUT Terminal</b>	Not Provided.																																							
<b>Date / Time Function</b>																																								
<b>Time Zone Setting (World Time)</b>	Honolulu, Anchorage, Los Angeles, Denver, Chicago, New York, Caracas, Newfoundland, Sao Paulo, Fernando de Noronha, Azores, London, Paris, Cairo, Moscow, Tehran, Dubai, Kabul, Karachi, Delhi, Kathmandu, Dacca, Yangon, Bangkok, Hong Kong, Tokyo/Seoul, Adelaide, Sydney, Solomon Islands, Wellington, Chatham Islands, Samoa.																																							
<b>Time Difference Setting</b>	Provided (15 minute increments).																																							
<b>Date / Time Back-up Battery</b>	Same as battery that powers the camera.																																							
<b>Power Supply</b>																																								
<b>Power Source</b>	Built-in rechargeable lithium-ion battery. Rated Voltage: 3.6 V Capacity: 800 mAh																																							
<b>Charging / Powering Specifications</b>	<table border="1"> <thead> <tr> <th colspan="2" rowspan="3">USB Type (Connection type)</th> <th colspan="5">Camera Status</th> </tr> <tr> <th rowspan="2">Power Turned Off</th> <th colspan="4">Power turned On</th> </tr> <tr> <th>Shooting</th> <th>Menu Display</th> <th>Playback</th> <th>During Wi-Fi Connection</th> <th>Computer Connection</th> </tr> </thead> <tbody> <tr> <td rowspan="4">Type-C</td> <td>18 W (9 V / 2 A) or more</td> <td rowspan="4">Charging</td> <td>Supplying power to the camera</td> <td colspan="3">Supplying power to the camera + Charging</td> </tr> <tr> <td>5 V / 3 A</td> <td colspan="4"></td> </tr> <tr> <td>5 V / 1.5 A</td> <td colspan="4"></td> </tr> <tr> <td>5 V / 0.5 A</td> <td colspan="4"></td> </tr> </tbody> </table> <p>* During Wi-Fi connection, excluding remote shooting. * To avoid overheating, shooting may stop sooner when connected to a power supply during shooting.</p>	USB Type (Connection type)		Camera Status					Power Turned Off	Power turned On				Shooting	Menu Display	Playback	During Wi-Fi Connection	Computer Connection	Type-C	18 W (9 V / 2 A) or more	Charging	Supplying power to the camera	Supplying power to the camera + Charging			5 V / 3 A					5 V / 1.5 A					5 V / 0.5 A				
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<b>Compatible Device</b>	<ul style="list-style-type: none"> <li>Commercially available USB Type-C devices that meet the specification requirements in charging / powering section.</li> <li>USB Power Adapter PD-E1 (Sold separately).</li> </ul> <p>Additional Third-Party Power Supplies*:</p> <ul style="list-style-type: none"> <li>Anker PowerPort Atom PD1 (Charging adapter)</li> <li>Anker PowerCore Slim 10000 PD (Mobile Battery)</li> <li>Anker PowerPort III Nano 20W</li> </ul> <p>* Canon makes no representations or warranties with respect to any third party accessory or product mentioned.</p>																																							
<b>Charging Temperature</b>	Approx. 41-104°F / 5-40°C																																							
<b>Charging / Power Supply Display</b>	<table border="1"> <thead> <tr> <th>Status</th> <th>Lamp</th> </tr> </thead> <tbody> <tr> <td>Accessing to the files</td> <td>Green / Lit</td> </tr> <tr> <td>Wi-Fi Connection established</td> <td>Green/ Blinking</td> </tr> <tr> <td>USB Charging</td> <td>Orange / Lit</td> </tr> <tr> <td>Viewfinder off Warning</td> <td>Green / Blinking</td> </tr> <tr> <td>Error</td> <td>Green / Blinking</td> </tr> </tbody> </table>	Status	Lamp	Accessing to the files	Green / Lit	Wi-Fi Connection established	Green/ Blinking	USB Charging	Orange / Lit	Viewfinder off Warning	Green / Blinking	Error	Green / Blinking																											
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<b>Number of Shots Available</b>	Approx. 150 shots * Based on CIPA standards, at 73°F / 23°C						
<b>Movie Recording</b>	Approx. 1 hr. 10 min. * With a fully charged battery, at room temperature 73°F / 23°C						
<b>Playback Time</b>	Approx 2 hrs. * With a fully charged battery, at room temperature 73°F / 23°C						
<b>Start-up Time</b>	Approx. 0.7 sec. * Based on CIPA testing standards.						
<b>Power-saving Functions</b>	<table border="1"> <thead> <tr> <th>Feature</th> <th>Time Options</th> </tr> </thead> <tbody> <tr> <td><b>Auto Power Off</b></td> <td>15 sec. / 30 sec. / 1 min. / 3 min.</td> </tr> <tr> <td><b>Viewfinder Off</b></td> <td>3 min. / Disable</td> </tr> </tbody> </table>	Feature	Time Options	<b>Auto Power Off</b>	15 sec. / 30 sec. / 1 min. / 3 min.	<b>Viewfinder Off</b>	3 min. / Disable
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<b>Viewfinder Off</b>	3 min. / Disable						
<b>Physical Specifications</b>							
<b>Operating Temperature</b>	32–104°F / 0–40°C						
<b>Operating Humidity</b>	10–90%						
<b>Dimensions (W x H x D)</b>	Approx. 1.31 x 2.00 x 4.06 in. / 33.4 x 50.8 x 103.2mm						
<b>Weight</b>	Approx. 5.12 oz. / 145g (including memory card) Approx. 5.08 oz. / 144g (camera body only)						