

Specifications

Type of Camera															
Type	Monocular telephoto compact digital camera														
Imaging Processor	DIGIC 8														
Image Sensor															
Type	CMOS sensor, 1/3-inch type^ (sensor aspect ratio: 4:3) ^ The center portion of a 1/2.3-inch type CMOS sensor is used.														
Pixels	Effective Pixels: 12.1 Megapixels Total Pixels: Approx. 12.1 Megapixels * Rounded to the nearest 100,000.														
Self-cleaning Sensor	Not provided.														
Lens															
Focal Length	Optical 4x lens that switches between two focal lengths. • Telephoto side: approx. 100mm – 35mm equivalent (13.8mm) • Super-tele side: approx. 400mm – 35mm equivalent (55.5mm) • Digital Zoom: approx. 800mm – 35mm equivalent (2x digital) *Focal length can be checked through the viewfinder.														
Lens Configuration	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)														
Digital Zoom	Enables approx. 2x magnification														
Step Zoom	• Switches among focal lengths in the following order, as controlled with the <ZOOM> button: • Equivalent to approx. 100mm (optical) -> equivalent to approx. 400mm (optical) -> equivalent to approx 800mm (digital).														
Telephoto Magnification	<table><tr><th></th><th>Still Photo Shooting</th><th>Movie Recording</th></tr><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></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
	Still Photo Shooting	Movie Recording													
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Focusing Range	• Wide-angle: Approx. 3.28 ft. - Infinity / 1m - Infinity. • Telephoto: Approx. 14.76 ft. - Infinity / 4.5m - Infinity. * Macro functionality not provided. Measure from the tip of the lens barrel.														
Aperture Number	• Wide-angle side: f/5.6 • Telephoto side: f/6.3 * No aperture control.														
Autofocus System	TTL Autofocus														
AF Method	• Face+Tracking • 1-point AF *Fixed at the center of the screen for 1-point AF.														

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

Image File Size / Number of Possible Shots / Maximum Burst	<table><tr><th>File size (Approx. MB)</th><th>Possible Shots (Approx.)</th><th>Maximum Burst (Approx.)</th></tr><tr><td>4.6</td><td>11460</td><td>50</td></tr></table>			File size (Approx. MB)	Possible Shots (Approx.)	Maximum Burst (Approx.)	4.6	11460	50						
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	4.6	11460	50												
	* 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).															
Exposure Composition	Supported +/- 3 stops														
Drive Mode	Single Shooting, Continuous Shooting														
Movie Recording															
Movie Recording Format	<table><tr><th>Container Format</th><td>MP4</td></tr><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></table>			Container Format	MP4	Video	H.264 / MPEG-4 AVC * Variable (averaged) bit rate	Audio	MPEG-4 AAC-LC (stereo)						
Container Format	MP4														
Video	H.264 / MPEG-4 AVC * Variable (averaged) bit rate														
Audio	MPEG-4 AAC-LC (stereo)														
Recording Size / Compression Method	Full HD: 1920x1080 / Standard (IPB) * Movie recording size adjustment not available.														
Frame Rate	When set to NTSC: 29.97 / 23.98 fps														
Movie Bit Rate	Approx. 30 Mbps * Video only, not including audio.														
File Size	Approx. 217 MB/min.														
Maximum Recording Time	9 min. 59 sec. * Movie recording is not possible during Wi-Fi connection														
Total Cumulative Recording Time Available	<table><tr><th>8 GB</th><td>Approx. 35 min.</td></tr><tr><th>32 GB</th><td>Approx. 2 hr. 33 min.</td></tr><tr><th>128 GB</th><td>Approx. 9 hr. 38 min</td></tr></table>			8 GB	Approx. 35 min.	32 GB	Approx. 2 hr. 33 min.	128 GB	Approx. 9 hr. 38 min						
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Maximum File Size	<table><tr><th>Card</th><th>Format</th><th>Maximum File Size</th></tr><tr><th>microSD</th><td>FAT12/16</td><td>Max. 2 GB</td></tr><tr><th>microSDHC</th><td>FAT32</td><td>Max. 4 GB</td></tr><tr><th>microSDXC</th><td>exFAT</td><td>Unlimited</td></tr></table>			Card	Format	Maximum File Size	microSD	FAT12/16	Max. 2 GB	microSDHC	FAT32	Max. 4 GB	microSDXC	exFAT	Unlimited
Card	Format	Maximum File Size													
microSD	FAT12/16	Max. 2 GB													
microSDHC	FAT32	Max. 4 GB													
microSDXC	exFAT	Unlimited													
Card Performance Requirements (movie recording)	Micro SD card with SD Speed Class 6 or higher														
Color Sampling Method	YCbCr 4:2:0 (8 bit)														
Video Range	Full range (0-255)														
Recording Microphone	Built-in stereo microphone * External microphone IN terminal not provided.														
HDMI Output	Not supported * HDMI OUT terminal not provided.														
White Balance															
Mode	Auto (White balance presets not provided.)														
White Balance Shift	Not supported.														
White Balance Bracketing	Not supported.														

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

HDMI OUT Terminal	Not Provided.																	
Date / Time Function																		
Time Zone Setting (World Time)	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.																	
Time Difference Setting	Provided (15 minute increments).																	
Date / Time Back-up Battery	Same as battery that powers the camera.																	
Power Supply																		
Power Source	Built-in rechargeable lithium-ion battery. Rated Voltage: 3.6 V Capacity: 800 mAh																	
Charging / Powering Specifications	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																
* During Wi-Fi connection, excluding remote shooting. * To avoid overheating, shooting may stop sooner when connected to a power supply during shooting.																		
Compatible Device	<ul style="list-style-type: none">Commercially available USB Type-C devices that meet the specification requirements in charging / powering section.USB Power Adapter PD-E1 (Sold separately). <p>Additional Third-Party Power Supplies*:</p> <ul style="list-style-type: none">Anker PowerPort Atom PD1 (Charging adapter)Anker PowerCore Slim 10000 PD (Mobile Battery) <p>* Canon makes no representations or warranties with respect to any third party accessory or product mentioned.</p>																	
Charging Temperature	Approx. 41-104°F / 5-40°C																	
Charging / Power Supply Display	<table><tr><th>Status</th><th>Lamp</th></tr><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></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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Charging Time	Charging Device		Charging Time for built-in Battery															
	PD-E1		1 hr. 50 min.															
* To fully recharge a completely depleted battery (unless over-discharge; details conform to Canon testing standards). * Charging time varies depending on remaining battery level and ambient temperature. * For safety, charging takes longer in colder environments (41-50°F / 5-10°C). * Charging time when connected to devices other than PD-E1 varies by device and is beyond the scope of this technical information.																		
Number of Shots Available	Approx. 150 shots * Based on CIPA standards, at 73°F / 23°C																	

Movie Recording	Approx. 1 hr. 10 min. * With a fully charged battery, at room temperature 73°F / 23°C						
Playback Time	Approx 2 hrs. * With a fully charged battery, at room temperature 73°F / 23°C						
Start-up Time	Approx. 0.7 sec. * Based on CIPA testing standards.						
Power-saving Functions	<table> <tr> <th>Feature</th><th>Time Options</th></tr> <tr> <td>Auto Power Off</td><td>15 sec. / 30 sec. / 1 min. / 3 min.</td></tr> <tr> <td>Viewfinder Off</td><td>3 min. / Disable</td></tr> </table>	Feature	Time Options	Auto Power Off	15 sec. / 30 sec. / 1 min. / 3 min.	Viewfinder Off	3 min. / Disable
Feature	Time Options						
Auto Power Off	15 sec. / 30 sec. / 1 min. / 3 min.						
Viewfinder Off	3 min. / Disable						
Physical Specifications							
Operating Temperature	32–104°F / 0–40°C						
Operating Humidity	10–90%						
Dimensions (W x H x D)	Approx. 1.31 x 2.00 x 4.06 in. / 33.4 x 50.8 x 103.2mm						
Weight	Approx. 5.12 oz. / 145g (including memory card) Approx. 5.08 oz. / 144g (camera body only)						