

Specifications

Type of Camera	
Type	Digital, AF/AE single-lens reflex camera with built-in flash
Recording Media	SD, SDHC and SDXC Memory Cards SD speed class compatibility. UHS speed class compatibility. High-speed writing is supported when a UHS-I or UHS-II-compatible SD card is used. Multimedia cards (MMC) cannot be used (card error will be displayed).
Image Format	Approx. 22.3mm x 14.8 mm (APS-C)
Compatible Lenses	Canon EF Lenses (including EF-S lenses, excluding EF-M lenses)
Lens Mount	Canon EF Mount
Image Sensor	
Type	CMOS Sensor
Effective Pixels	Approx. 32.5 megapixels
Total Pixels	Approx. 34.4 megapixels
Pixel Unit	Approx. 3.2 μm square
Aspect Ratio	3:2 (Horizontal: Vertical)
Color Filter System	RGB primary color filters
Low Pass Filter	Fixed position in front of the image sensor
Dust Removal Feature	(1) Self Cleaning Sensor Unit <ul style="list-style-type: none"> Removes dust adhering to the low-pass filter. Self-cleaning can be done automatically when the power is turned on or off. Manual cleaning also possible. (2) Dust Delete Data acquisition and appending <ul style="list-style-type: none"> The coordinates of the dust adhering to the low-pass filter are detected by a test shot and appended to subsequent images. The dust coordinate data appended to the image is used by the EOS software to automatically erase the dust spots. (3) Manual cleaning
Recording System	
Recording Format	Design Rule for Camera File System 2.0 and EXIF 2.31* * Supports time difference information.
Image Format	Still Image: JPEG, RAW (14 bit Canon Original), C-RAW Video: MP4 (Movie: MPEG4 AVC/H.264*; Audio: AAC Audio: Linear PCM) * Variable (averaged) bit rate

<p>File Size</p>	<p>3:2 Aspect Ratio Large: Approx. 32.3 Megapixels (6960 x 4640) Medium: Approx. 15.4 Megapixels (4800 x 3200) Small 1: Approx. 8.1 Megapixels (3472 x 2320) Small 2: Approx. 3.8 Megapixels (2400 x 1600) RAW / C-RAW: Approx. 32.3 Megapixels (6960 x 4640)</p> <p>4:3 Aspect Ratio Large: Approx. 28.6 Megapixels (6160 x 4640) Medium: Approx. 13.6 Megapixels (4256 x 3200) Small 1: Approx. 7.1 Megapixels (3072 x 2320) Small 2: Approx. 3.4 Megapixels (2112 x 1600) RAW / C-RAW: Approx. 32.3 Megapixels (6960 x 4640)</p> <p>16:9 Aspect Ratio Large: Approx. 27.2 Megapixels (6960 x 3904) Medium: Approx. 12.9 Megapixels (4800 x 2688) Small 1: Approx. 6.8 Megapixels (3472 x 1952) Small 2: Approx. 3.2 Megapixels (2400 x 1344) RAW / C-RAW: Approx. 32.3 Megapixels (6960 x 4640)</p> <p>1:1 Aspect Ratio Large: Approx. 21.5 Megapixels (4640 x 4640) Medium: Approx. 10.2 Megapixels (3200 x 3200) Small 1: Approx. 5.4 Megapixels (2320 x 2320) Small 2: Approx. 2.6 Megapixels (1600 x 1600) RAW / C-RAW: Approx. 32.3 Megapixels (6960 x 4640)</p> <p>Values of Pixels recorded are rounded off to the nearest 100,000th. JPEG images are generated in the aspect ratio that was set. RAW/C-RAW images are generated in [3:2] and the set aspect ratio is appended.</p>
<p>File Numbering</p>	<p>The following three types of file numbers can be set:</p> <ol style="list-style-type: none"> 1. Continuous numbering <ul style="list-style-type: none"> • The numbering of captured images will continue even after you replace the card. 2. Auto reset <ul style="list-style-type: none"> • When you replace the card, the numbering will be reset to start from 0001. If the new card already contains images, the numbering will continue from the last recorded image in the card. 3. Manual reset <ul style="list-style-type: none"> • Resets the file number to 0001, and creates a new folder automatically.
<p>Color Space</p>	<p>sRGB, Adobe RGB</p>
<p>Picture Style</p>	<ol style="list-style-type: none"> 1. Auto 2. Standard 3. Portrait 4. Landscape 5. Fine Detail 6. Neutral 7. Faithful 8. Monochrome 9. User Defined 1–3 <ol style="list-style-type: none"> a. In Basic Zone modes, “Auto” is set automatically. b. In Creative Zone modes, you can select or set the Picture Style. c. [Auto] is the default setting for [User Def. 1–3].
<p>White Balance</p>	

Settings	Auto, Daylight, Shade, Cloudy*, Tungsten Light, White Fluorescent Light, Flash, Custom, Color Temperature setting *Effective in twilight and sunset as well.		
Auto White Balance	Option between ambience priority and white priority settings		
Color Temperature Compensation	Blue/amber bias: ±9 levels Magenta/green bias: ±9 levels Corrected in reference to the current WB mode's color temperature.		
Color Temperature Information Transmission	Provided		
Viewfinder			
Type	Eye-level SLR (with fixed pentaprism)		
Coverage	Aspect Ratio		
		3:2	Approx. 100% vertically/horizontally
		4:3	Approx. 100% vertically Approx. 97% horizontally
		16:9	Approx. 97% vertically Approx. 100% horizontally
		1:1	Approx. 100% vertically Approx. 96% horizontally
Magnification	Approx. 0.95x (with 50mm lens at infinity, -1m^{-1}) / 28.2° angle of view		
Eye Point	Approx. 22mm (At -1m^{-1} from eyepiece lens center)		
Dioptric Adjustment Correction	Adjustable from approx. -3.0 to $+1.0 \text{ m}^{-1}$ (dpt)		
Focusing Screen	Fixed		
Viewfinder Information	<p>Information display on a transparent LCD screen</p> <ul style="list-style-type: none"> • AF area selection mode • AF point (focusing point) information • Area AF frame • Spot metering circle • Electronic level • Grid display • Aspect line (4:3, 16:9, 1:1) • Flicker detection • Warning symbol <p>You can set whether to display or hide [Electronic level], [Grid display] and [Flicker detection].</p>		
Mirror Lockup	Supported		
Depth Of Field Preview	Provided		
Autofocus			
Type	TTL secondary image-forming phase-difference detection system with AF-dedicated sensor		

AF Points	<p>Up to 45 points (Cross-type AF points: Max. 45)</p> <table border="1" data-bbox="456 163 1159 386"> <thead> <tr> <th>AF Point and Focusing Pattern</th> <th>Number of AF Points (Max.)</th> </tr> </thead> <tbody> <tr> <td>Dual Cross-type AF Points at f/2.8 and f/5.6</td> <td>1</td> </tr> <tr> <td>Cross-type AF Points at f/5.6</td> <td>45</td> </tr> <tr> <td>Focusing at f/8</td> <td>27 (Cross-type AF point 9)</td> </tr> </tbody> </table> <p>The number of AF points, cross-type AF points and dual cross-type AF points vary depending on the lens used. Note that, with aspect ratio of 1:1, the maximum number of AF points becomes 35. (Each left and right end line of AF points in total of ten are not usable.)</p>	AF Point and Focusing Pattern	Number of AF Points (Max.)	Dual Cross-type AF Points at f/2.8 and f/5.6	1	Cross-type AF Points at f/5.6	45	Focusing at f/8	27 (Cross-type AF point 9)							
AF Point and Focusing Pattern	Number of AF Points (Max.)															
Dual Cross-type AF Points at f/2.8 and f/5.6	1															
Cross-type AF Points at f/5.6	45															
Focusing at f/8	27 (Cross-type AF point 9)															
AF Working Range	<p>One-shot AF, room temperature, ISO 100 (Based on Canon's testing standards and environment)</p> <table border="1" data-bbox="456 604 1159 764"> <thead> <tr> <th>AF Point</th> <th>Brightness</th> </tr> </thead> <tbody> <tr> <td>One center AF point focusing at f/2.8</td> <td>EV-3 to 18</td> </tr> <tr> <td>One center AF point focusing at f/5.6</td> <td>EV -1 to 18</td> </tr> <tr> <td>Peripheral AF points focusing at f/5.6</td> <td>EV -0.5 to 18</td> </tr> </tbody> </table>	AF Point	Brightness	One center AF point focusing at f/2.8	EV-3 to 18	One center AF point focusing at f/5.6	EV -1 to 18	Peripheral AF points focusing at f/5.6	EV -0.5 to 18							
AF Point	Brightness															
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Peripheral AF points focusing at f/5.6	EV -0.5 to 18															
Focusing Mode	<ol style="list-style-type: none"> 1. Autofocus <ol style="list-style-type: none"> a. One-Shot AF b. AI Servo AF c. AI Focus AF <ol style="list-style-type: none"> i. Switches between One-Shot AF and AI Servo AF automatically. 2. Manual focus 															
Select AF Area Selection Mode	<table border="1" data-bbox="456 999 1328 1197"> <tbody> <tr> <td>Spot AF</td> <td>Yes</td> <td>-</td> </tr> <tr> <td>1-point AF</td> <td>Yes</td> <td>Yes</td> </tr> <tr> <td>Zone AF</td> <td>Yes</td> <td>Yes</td> </tr> <tr> <td>Large Zone AF</td> <td>Yes</td> <td>Yes</td> </tr> <tr> <td>Automatic selection AF (all AF points)</td> <td>Yes</td> <td>Yes</td> </tr> </tbody> </table>	Spot AF	Yes	-	1-point AF	Yes	Yes	Zone AF	Yes	Yes	Large Zone AF	Yes	Yes	Automatic selection AF (all AF points)	Yes	Yes
Spot AF	Yes	-														
1-point AF	Yes	Yes														
Zone AF	Yes	Yes														
Large Zone AF	Yes	Yes														
Automatic selection AF (all AF points)	Yes	Yes														
Orientation Linked AF Point	Supported															
AF Microadjustment	Supported															
Automatic AF point selection: EOS iTR AF	<p>AF: EOS iTR AF Effective pixels of metering sensor: Approx. 220,000 pixels.</p> <table border="1" data-bbox="456 1495 1451 1633"> <tbody> <tr> <td>EOS iTR AF (Face priority)</td> <td>Face Information is given priority in tracking.</td> </tr> <tr> <td>EOS iTR AF</td> <td>Tracking based on factors including AF information, subject color information, and face information.</td> </tr> <tr> <td>Disable</td> <td>Tracking based solely on AF information.</td> </tr> </tbody> </table> <p>*Applied when the AF are selection modes are Zone AF, Large Zone AF, or Auto selection AF.</p>	EOS iTR AF (Face priority)	Face Information is given priority in tracking.	EOS iTR AF	Tracking based on factors including AF information, subject color information, and face information.	Disable	Tracking based solely on AF information.									
EOS iTR AF (Face priority)	Face Information is given priority in tracking.															
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Disable	Tracking based solely on AF information.															
AF Assist Beam	<p>Intermittent firing of built-in flash Effective range: Center: Approx. 13.1 ft. / 4.0m Periphery: Approx. 13.1 ft. / 4.0m With an EOS-dedicated Speedlite attached, the Speedlite's AF-assist beam is emitted instead.</p>															
Focusing Method	Dual Pixel CMOS AF															

Focusing Operation		Number of AF Points (Max.)	Movie Recording
	AF Operation	<ul style="list-style-type: none"> • One-Shot AF • Servo AF • AI Focus AF (with Scene Intelligent Auto)¹ 	<ul style="list-style-type: none"> • One-Shot AF • Movie Servo AF
	Manual Focus	Supported	Supported

*Dual Pixel CMOS Af is supported with all EF and EF-S lenses.
*Contrast AF is not included.

Exposure Control	
Metering Modes	<p>216-zone (18 x 12) metering with approx. 220,000-pixel RGB+IR metering sensor and TTL full-aperture.</p> <p>384-zone (24 x 16) metering using image sensor output signals (Live View and Movie Recording). The following metering modes selectable:</p> <p>(1) Evaluative metering (linked to all AF points)</p> <p>(2) Partial metering on the center part of the viewfinder (approx. 6.5% of viewfinder/approx. 4.5% in live view)</p> <p>(3) Spot metering (approx. 2.0% of viewfinder/approx. 2.6% in live view)</p> <p>(4) Center-weighted average metering</p>
Metering Range	<p>OVF: EV 1–20 (room temperature, ISO 100, with evaluative metering)</p> <p>Live View EV -2–20</p> <p>Movie Recording: EV 0-20</p>
Exposure Control Systems	<p>Creative Zone</p> <ol style="list-style-type: none"> 1. Program AE (Shiftable) 2. Shutter-priority AE 3. Aperture-priority AE 4. Manual exposure 5. Bulb 6. Custom shooting mode C1 or C2 <p>Basic Zone</p> <ol style="list-style-type: none"> 1. Scene Intelligent Auto (Program AE/non-shiftable) 2. Flash Off 3. Creative Auto 4. Special Scene <ol style="list-style-type: none"> a. Food b. Kids c. Candlelight d. Night Portrait e. Handheld Night Scene f. HDR Backlight Control g. Portrait h. Landscape i. Close-up j. Sports k. Group Photo l. Panning 5. Creative Filters <ol style="list-style-type: none"> a. Grainy B/W b. Soft Focus c. Fish-eye Effect d. Toy Camera Effect e. Miniature Effect f. Water Painting Effect g. HDR Art Standard h. HDR Art Vivid i. HDR Art Bold j. HDR Art Embossed

ISO Speed Range	Manual setting				
	Normal ISO Speeds		ISO 100–25600 (in 1/3-stop)		
	Expanded ISO Speeds		ISO 51200 (equivalent)		
	For [Highlight tone priority], the settable ISO speed range will be ISO 200–25600.				
	Auto setting				
	Shooting Mode		ISO Settings		
			No Flash	With Built-in Flash	With External Flash
	Creative Zone	P, Tv, Av, M	ISO 100–6400	ISO 100* ¹ -25600* ²	ISO 100* ¹ -1600* ²
		B	ISO 100–12800	ISO 400	
	Basic Zone	Auto	ISO 100–1600	ISO 100-1600	
Creative Filters		Other than Min. effect: ISO 100-6400 Miniature Effect: ISO 100-1600	Other than Min. effect: ISO 100-3200 Miniature Effect: ISO 100-1600	ISO 100-1600	
		Portrait	ISO 100-6400	ISO 100-1600	
Group Photo		ISO 100-6400	ISO 100-6400	ISO 100-6400	
Landscape		ISO 100-1600	Does not fire		
Sports		ISO 100-6400	Does not fire	ISO 100-1600	
Kids		ISO 100-6400	ISO 100-1600		
Panning & Candlelight		ISO 100-6400	Does not fire		
Close-up & Food		ISO 100-6400	ISO 100-1600		
Night Portrait		ISO 100-800	ISO 400-800* ³	ISO 100-800	
Handheld Night Scene		ISO 100-12800* ²	ISO 100-6400		
HDR Backlight Control		ISO 100-6400	Does not fire		
* ¹ ISO 200 when [Highlight tone priority] is set to [Enable] or [Enhanced].					
* ² Varies depending on the maximum of [Auto range].					
* ³ Minimum limit may change depending on the lens.					
Anti-Flicker Shooting	Provided				
Exposure Compensation	Manual: ±5 stops in 1/3- or 1/2-stop increments AEB: ±3 stops in 1/3- or 1/2-stop increments * Indicated up to ±3 stops on the LCD panel and in the viewfinder.				
AE Lock	(1) Auto AE lock • In the One-Shot AF mode with evaluative metering, AE lock takes effect when focus is achieved. (2) Manual AE lock • In P, Av, Tv and M mode, enabled with the AE lock button. (Press again to update.) • Enabled in all metering modes.				
Shooting in HDR mode (Still photos)					
Adjust Dynamic Range	(1) Disable HDR (2) Auto (3) ±1 - ±3				
Effect	(1) Natural (2) HDR art standard (3) HDR art vivid (4) Art bold (5) HDR art embossed				
Continuous HDR	(1) 1 Shot only (2) Every shot				

Auto Image Align	Supported				
Shutter					
Type	Vertical-travel, mechanical, focal-plane shutter with all speeds electronically-controlled				
Shutter Speeds	Creative Zone: 1/16000 to 30 sec., Bulb (Total shutter speed range) * 1/16000 is only when electric shutter mode is selected. Basic Zone: 1/8000-1sec X-sync at 1/250 sec.				
Shutter Release	Soft-touch electromagnetic release				
Self Timer	10-sec. Delay, 2-sec. Delay, Continuous				
Timer Shooting					
Bulb Timer	Bulb exposure time settable. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Exposure time</td> <td style="width: 50%; text-align: center;">1 sec.-99 hr. 59 min. 59 sec.</td> </tr> </table>	Exposure time	1 sec.-99 hr. 59 min. 59 sec.		
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Interval Timer	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Interval</td> <td style="width: 50%; text-align: center;">1 sec.-99 hr. 59 min. 59 sec.</td> </tr> <tr> <td style="width: 50%; text-align: center;">No. of shots</td> <td style="width: 50%; text-align: center;">Unlimited, or 1-99</td> </tr> </table>	Interval	1 sec.-99 hr. 59 min. 59 sec.	No. of shots	Unlimited, or 1-99
Interval	1 sec.-99 hr. 59 min. 59 sec.				
No. of shots	Unlimited, or 1-99				
Built-in Flash					
Type	Retractable flash in the pentaprism housing				
Retraction Method	Manual pop-up				
Guide Number	Approx. 39.4 ft./12m (at ISO 100)				
Flash Coverage	Up to approx. 17mm focal length (35mm equivalent: approx. 28mm)				
Flash Exposure Compensation	Up to ± 3 stops in 1/3- or 1/2-stop increments Flash exposure compensation for built-in flash and external Speedlite can be set with the camera.				
External Flash Settings	<ol style="list-style-type: none"> 1. External flash control <ul style="list-style-type: none"> • Flash firing • E-TTL II Flash metering • Flash mode • Radio transmission wireless functions • Optical transmission wireless functions • Zoom • Sync setting • Flash exposure compensation • FEB • Clear settings 2. External flash Custom Function setting 				
Multiple Exposure Shooting					
Multiple-exposure shooting	Disable / Enable				
Multiple-exposure Control	Additive Average (Bright and Dark are not supported).				
No. of Exposures	2-9				
Continue Multiple Exposures	1 Shot Only Continuously				
Saving Source Images	Save result only				
Drive System					

Drive Mode	<ol style="list-style-type: none"> 1. Single shooting 2. High and Low-speed continuous shooting 3. Continuous shooting (panning) 4. Silent single and continuous shooting 5. Continuous: self-timer 6. 10-sec. Self-timer/remote control 7. 2-sec. Self-timer/remote control
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Focus Bracketing	Available
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Continuous Shooting Speed	<p>Drive Mode and Continuous Shooting Speed:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Drive Mode</th> <th>Viewfinder shooting</th> <th>Live View Shooting</th> </tr> </thead> <tbody> <tr> <td colspan="2" style="text-align: center;">Single Shooting</td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">Yes</td> </tr> <tr> <td rowspan="4" style="text-align: center;">High-speed continuous shooting *1</td> <td style="text-align: center;">One-Shot AF</td> <td style="text-align: center;">Max. approx 10 shots/sec.</td> <td style="text-align: center;">Max. approx 11 shots/sec.</td> </tr> <tr> <td style="text-align: center;">One-Shot AF (with flash)</td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">Yes</td> </tr> <tr> <td style="text-align: center;">AI Servo AF / Servo AF</td> <td style="text-align: center;">Max. approx 10 shots/sec.</td> <td style="text-align: center;">Max. approx 7 shots/sec*2</td> </tr> <tr> <td style="text-align: center;">Manual</td> <td style="text-align: center;">Max. approx 10 shots/sec.</td> <td style="text-align: center;">Max. approx 11 shots/sec.</td> </tr> <tr> <td rowspan="3" style="text-align: center;">Low-speed continuous shooting</td> <td style="text-align: center;">One-Shot AF (no flash)</td> <td style="text-align: center;">Max. approx 3 shots/sec.</td> <td style="text-align: center;">Max. approx 3 shots/sec.</td> </tr> <tr> <td style="text-align: center;">One-Shot AF (with flash)</td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">Yes</td> </tr> <tr> <td style="text-align: center;">AI Servo AF / Servo AF</td> <td style="text-align: center;">Max. approx 3 shots/sec.</td> <td style="text-align: center;">Max. approx 3 shots/sec.</td> </tr> <tr> <td style="text-align: center;">Continuous Shooting*3</td> <td style="text-align: center;">Panning</td> <td style="text-align: center;">Max. approx. 5.7 shots/sec.</td> <td style="text-align: center;">Max. approx. 4.3 shots/sec</td> </tr> <tr> <td colspan="2" style="text-align: center;">Silent single shooting</td> <td style="text-align: center;">Yes</td> <td></td> </tr> <tr> <td colspan="2" style="text-align: center;">Silent continuous shooting</td> <td style="text-align: center;">Max. approx. 3 shots/sec</td> <td></td> </tr> <tr> <td colspan="2" style="text-align: center;">Self-timer: 10 sec / remote control</td> <td colspan="2" style="text-align: center;">Yes (BR-E1: Supported / RC-6: Supported)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Self-timer: 2 sec / remote control</td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">Yes</td> </tr> <tr> <td colspan="2" style="text-align: center;">Self-timer: Continuous</td> <td style="text-align: center;">Yes (2-10 shots)</td> <td style="text-align: center;">Yes (2-10 shots)</td> </tr> </tbody> </table> <p>*1 Maximum continuous shooting speed with flicker reduction may drop to approx. 7 shots/sec. *2 Values are for electronic first-curtain shooting. (Slower for mechanical shutter.) *3 With shutter speed 1/125 sec. (For Panning, shutter speed is set automatically)</p> <p>Image File Size/Number of Possible Shots/Maximum Burst During Continuous Shooting:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Image Recording Quality</th> <th rowspan="2">File Size (Approx. MB)</th> <th rowspan="2">Number of Possible Shots (Approx.)*1</th> <th colspan="2">Maximum Burst (Approx.)</th> </tr> <tr> <th>Standard*1</th> <th>High-speed (UHS-II)</th> </tr> </thead> <tbody> <tr><td>Large/Fine</td><td>11.1</td><td>2720</td><td>57</td><td>58</td></tr> <tr><td>Large/Normal</td><td>5.6</td><td>5380</td><td>57</td><td>58</td></tr> <tr><td>Medium 1/Fine</td><td>5.8</td><td>5190</td><td>55</td><td>55</td></tr> <tr><td>Medium 1/Normal</td><td>3.0</td><td>9860</td><td>57</td><td>56</td></tr> <tr><td>Small 1/Fine</td><td>3.6</td><td>8390</td><td>57</td><td>57</td></tr> <tr><td>Small 1/Normal</td><td>2.0</td><td>14600</td><td>57</td><td>57</td></tr> <tr><td>Small 2</td><td>1.6</td><td>18390</td><td>57</td><td>57</td></tr> <tr><td>RAW</td><td>35.6</td><td>850</td><td>24</td><td>25</td></tr> <tr><td>C-RAW</td><td>20.4</td><td>1490</td><td>39</td><td>39</td></tr> <tr><td>RAW + Large/Fine</td><td>35.6 + 11.1</td><td>650</td><td>23</td><td>24</td></tr> <tr><td>C-RAW + Large/Fine</td><td>20.4 + 11.1</td><td>960</td><td>37</td><td>36</td></tr> </tbody> </table> <p>*1 The number of possible shots and maximum burst apply to a UHS-I compliant 32GB card based on Canon's test standards. *2 The number of possible shots and maximum burst applies to a UHS-II compliant 32GB card based on Canon's test standards. The file size, number of possible shots and maximum burst will vary depending on shooting conditions (aspect ratio, subject, memory card brand, ISO speed, Picture Style, etc.).</p>	Drive Mode		Viewfinder shooting	Live View Shooting	Single Shooting		Yes	Yes	High-speed continuous shooting *1	One-Shot AF	Max. approx 10 shots/sec.	Max. approx 11 shots/sec.	One-Shot AF (with flash)	Yes	Yes	AI Servo AF / Servo AF	Max. approx 10 shots/sec.	Max. approx 7 shots/sec*2	Manual	Max. approx 10 shots/sec.	Max. approx 11 shots/sec.	Low-speed continuous shooting	One-Shot AF (no flash)	Max. approx 3 shots/sec.	Max. approx 3 shots/sec.	One-Shot AF (with flash)	Yes	Yes	AI Servo AF / Servo AF	Max. approx 3 shots/sec.	Max. approx 3 shots/sec.	Continuous Shooting*3	Panning	Max. approx. 5.7 shots/sec.	Max. approx. 4.3 shots/sec	Silent single shooting		Yes		Silent continuous shooting		Max. approx. 3 shots/sec		Self-timer: 10 sec / remote control		Yes (BR-E1: Supported / RC-6: Supported)		Self-timer: 2 sec / remote control		Yes	Yes	Self-timer: Continuous		Yes (2-10 shots)	Yes (2-10 shots)	Image Recording Quality	File Size (Approx. MB)	Number of Possible Shots (Approx.)*1	Maximum Burst (Approx.)		Standard*1	High-speed (UHS-II)	Large/Fine	11.1	2720	57	58	Large/Normal	5.6	5380	57	58	Medium 1/Fine	5.8	5190	55	55	Medium 1/Normal	3.0	9860	57	56	Small 1/Fine	3.6	8390	57	57	Small 1/Normal	2.0	14600	57	57	Small 2	1.6	18390	57	57	RAW	35.6	850	24	25	C-RAW	20.4	1490	39	39	RAW + Large/Fine	35.6 + 11.1	650	23	24	C-RAW + Large/Fine	20.4 + 11.1	960	37	36
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	AI Servo AF / Servo AF	Max. approx 10 shots/sec.	Max. approx 7 shots/sec*2																																																																																																																			
	Manual	Max. approx 10 shots/sec.	Max. approx 11 shots/sec.																																																																																																																			
Low-speed continuous shooting	One-Shot AF (no flash)	Max. approx 3 shots/sec.	Max. approx 3 shots/sec.																																																																																																																			
	One-Shot AF (with flash)	Yes	Yes																																																																																																																			
	AI Servo AF / Servo AF	Max. approx 3 shots/sec.	Max. approx 3 shots/sec.																																																																																																																			
Continuous Shooting*3	Panning	Max. approx. 5.7 shots/sec.	Max. approx. 4.3 shots/sec																																																																																																																			
Silent single shooting		Yes																																																																																																																				
Silent continuous shooting		Max. approx. 3 shots/sec																																																																																																																				
Self-timer: 10 sec / remote control		Yes (BR-E1: Supported / RC-6: Supported)																																																																																																																				
Self-timer: 2 sec / remote control		Yes	Yes																																																																																																																			
Self-timer: Continuous		Yes (2-10 shots)	Yes (2-10 shots)																																																																																																																			
Image Recording Quality	File Size (Approx. MB)	Number of Possible Shots (Approx.)*1	Maximum Burst (Approx.)																																																																																																																			
			Standard*1	High-speed (UHS-II)																																																																																																																		
Large/Fine	11.1	2720	57	58																																																																																																																		
Large/Normal	5.6	5380	57	58																																																																																																																		
Medium 1/Fine	5.8	5190	55	55																																																																																																																		
Medium 1/Normal	3.0	9860	57	56																																																																																																																		
Small 1/Fine	3.6	8390	57	57																																																																																																																		
Small 1/Normal	2.0	14600	57	57																																																																																																																		
Small 2	1.6	18390	57	57																																																																																																																		
RAW	35.6	850	24	25																																																																																																																		
C-RAW	20.4	1490	39	39																																																																																																																		
RAW + Large/Fine	35.6 + 11.1	650	23	24																																																																																																																		
C-RAW + Large/Fine	20.4 + 11.1	960	37	36																																																																																																																		

Live View Functions

Shooting Modes	Still photo and video recording										
Focusing	<ol style="list-style-type: none"> Dual Pixel CMOS AF <ul style="list-style-type: none"> Dual Pixel CMOS AF is possible with all EF and EF-S lenses. Contrast AF is not provided. Manual focus <ul style="list-style-type: none"> Magnify the image by 5x or 10x and focus manually. <p>* AE lock possible. The active metering timer can be changed.</p>										
Metering Modes	<ol style="list-style-type: none"> Evaluative metering (216-zone) Partial metering (approx. 6.5% of Live View screen) Spot metering (approx. 2.0% of Live View screen) Center-weighted average metering 										
Metering Range	EV 0–20 (room temperature, ISO 100, with evaluative metering)										
Grid Display	<ol style="list-style-type: none"> 3x3 6x4 3x3+diag 										
Exposure Simulation	Possible										
Silent Shooting	Provided (Mode 1 and Mode 2)										
Image Processing After Shooting											
In-camera RAW Image Processing	Brightness adjustment (up to ±1 stops in 1/3-stop increments), white balance: auto white balance provides [Ambience priority] and [White priority] settings, picture style: [Fine detail] is available, for sharpness [Fineness] and [Threshold] are available. Auto lighting optimizer: supported high ISO speed NR: supported, image quality and color space: supported. Lens aberration correction: peripheral illumination correction, chromatic aberration correction, diffraction correction, distortion correction, digital lens optimizer.										
Video Shooting											
File Format	MP4: Movie: MPEG-4 AVC/H.264 * Variable (average) bit rate Audio: AAC										
4K Movie Recording	Cropped and Uncropped										
Time-lapse Movie	Supported										
Video Snapshots	Supported										
Creative Filters (Movie)	<table border="1"> <thead> <tr> <th>Resolution</th> <th>Frame Rate (fps)</th> <th>Compression Method</th> <th>Recording Format</th> <th>Audio</th> </tr> </thead> <tbody> <tr> <td>Full HD (1920 x 1080)</td> <td>29.97</td> <td>IPB (Standard) IPB (Light)</td> <td>MP4</td> <td>AAC</td> </tr> </tbody> </table> <p>*Magnified view is not available in Live View shooting. *Creative filters are not available when the movie recording size is set to a size incompatible with creative filters.</p>	Resolution	Frame Rate (fps)	Compression Method	Recording Format	Audio	Full HD (1920 x 1080)	29.97	IPB (Standard) IPB (Light)	MP4	AAC
Resolution	Frame Rate (fps)	Compression Method	Recording Format	Audio							
Full HD (1920 x 1080)	29.97	IPB (Standard) IPB (Light)	MP4	AAC							
HDR Movie	Supported *EOS 90D Camera alternately captures underexposed and standard exposure frames to record a single frame that combines them so that even high-contrast scenes can be recorded with less loss of detail in highlights. (Does not compensate for loss of detail in shadows). *HDR movie is available in Special scene modes. <table border="1"> <thead> <tr> <th>Resolution</th> <th>Frame Rate (fps)</th> <th>Compression Method</th> <th>Recording Format</th> <th>Audio</th> </tr> </thead> <tbody> <tr> <td>Full HD (1920 x 1080)</td> <td>29.97</td> <td>IPB (Standard)</td> <td>MP4</td> <td>AAC</td> </tr> </tbody> </table>	Resolution	Frame Rate (fps)	Compression Method	Recording Format	Audio	Full HD (1920 x 1080)	29.97	IPB (Standard)	MP4	AAC
Resolution	Frame Rate (fps)	Compression Method	Recording Format	Audio							
Full HD (1920 x 1080)	29.97	IPB (Standard)	MP4	AAC							

High Frame Rate Movies		Full HD/HD	Frame Rate (fps)	
	During Recording*	Full HD (1920 x 1080)	119.88	
	During Playback	Full HD (1920 x 1080)	29.97	
	During HDMI Output	Full HD (1920 x 1080)	59.94	
* Movie recording is interrupted if the maximum recording time per movie, 7 min. 29 sec., is exceeded. Note that Movie Servo AF, audio recording, and Movie digital IS are not available during recording.				
Movie Digital IS	Movie Digital IS setting	Full HD/HD	Without 4K Cropping	With 4K Cropping
	Disable	Approx. 100%	Approx. 100%	Approx. 84%
	Enable	Approx. 90%	Approx. 90%	Approx. 75%
	Enhanced	Approx. 70%	Approx. 70%	Approx. 58%
HDMI Output	HDMI Resolution	Auto / 1080p		
	HDMI output for movie footage	Supported (HDMI information display)		
	HDMI HDR output	Supported		
	Color sampling method	Uncompressed YCbCr 4:2:2, 8-bit Uncompressed YCbCr 4:2:2, 10-bit Uncompressed RGB, 8-bit		
	Color space	BT.709, BT.601, BT.2020		
<ul style="list-style-type: none"> • Content in the output format set on the camera is displayed on the device connected via HDMI. • The content that can be displayed varies depending on the specifications of the monitor connected via HDMI. Thus, display matching camera settings may not be supported. 				
File Size	MP4:			
	4K (3480 x 2160)	29.97 fps	IPB	
	1920 x 1080	59.94 fps	IPB	
		29.97 fps	IPB	
			IPB (Light)	
	1280 x 720	59.94 fps	IPB	
		29.97 fps	IPB (Light)	

Frame Rates

MP4:

1920 x 1080 (Full HD): 60 fps (59.94 fps) / 30 fps (29.97 fps)

1280 x 720 (HD): 60 fps (59.94 fps) / 30 fps (29.97 fps)

Continuous Shooting Time

MP4 Format

Movie-recording Size			Total Recording Time per Card (Approx.)			Movie Bit Rate / File Size
			8GB	32GB	128GB	
4K (UHD) 3840 x 2160	Uncropped 29.97 fps	IPB	8 min.	35 min.	2 hr. 21 min.	120 Mbps 860MB
	Cropped 29.97 fps	IPB	8 min.	35 min.	2 hr. 21 min.	120 Mbps 860MB
Full HD 1920 x 1080	High Frame Rate movies 119.88 fps	IPB	8 min.	35 min.	2 hr. 22 min.	120 Mbps 858MB
	59.94 fps	IPB	17 min.	1 hr. 10 min.	4 hr. 43min.	60 Mbps 431MB
	29.97 fps	IPB	35 min.	2 hr. 20 min.	9 hr. 23 min.	30 Mbps 216MB
	29.97 fps	IPB (Light)	1 hr. 26 min.	5 hr. 47 min.	23 hr. 11 min.	12 Mbps 87MB
HD 1280 x 720	59.94 fps	IPB	40 min.	2 hr. 42 min.	10 hr. 49 min.	26 Mbps 187MB
HDR Movie Shooting (1920 x 1080)	29.97 fps	IPB	35 min.	2 hr. 20 min.	9 hr. 23 min.	30 Mbps 216MB

* Bit rate indicates video output only, audio is not included.

* With MP4, if the recording time reaches 29 min. 59 sec., the movie shooting stops automatically. (Time is different for High Frame Rate movies.)

* Sound is not recorded for approx. the last two frames when the compression method for movie recording quality is IPB or IPB (Light) (audio: AAC) and [C.Fn III-5 Audio compression] is set to [Enable].

* The video and sound may be slightly out of sync when movies are played back in Windows.

**Focusing
(Live View Mode)**

1. Dual Pixel CMOS AF

* Contrast AF is not possible.

2. Manual focus

* Magnify the image by 5x or 10x and focus manually. (You cannot magnify the image during movie shooting.)

**Exposure
Compensation**

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

* Likewise ±3 stops for still photo shooting.

LCD Monitor

Type

TFT color, liquid-crystal monitor

Touch Screen	Supported
Monitor Size	Wide 3.0-inch (Screen aspect ratio of 3:2) Approx. 3.0 in. Diagonal (approx. 2.5 in. wide, approx. 1.7 in. high)
Pixels	Approx. 1.04 million dots
Coverage	Approx. 100% Viewing angle: Approx. 170° vertically and horizontally
Brightness Control	Adjustable to one of seven levels
Coating	Anti-smudge coating
Interface Languages	29 (English, German, French, Dutch, Danish, Portuguese, Finnish, Italian, Norwegian, Swedish, Spanish, Greek, Russian, Polish, Czech, Hungarian, Vietnamese, Hindi, Romanian, Ukraine, Turkish, Arabic, Thai, Simplified/Traditional Chinese, Korean, Malay, Indonesian, and Japanese)
Tilt Display	
On LCD Monitor	<p>Single image display:</p> <ul style="list-style-type: none"> • No information • Basic information • Detailed shooting information display <ul style="list-style-type: none"> Basic shooting information Lens information and RGB histogram White balance Picture Style 1, 2 Color space and noise reduction Lens aberration correction GPS information Record of sent images <p>Index display:</p> <ul style="list-style-type: none"> • 4-image index • 9-image index • 36-image index • 100-image index
Playback	
Highlight Alert	With single image display, overexposed highlight areas will blink.
Histogram	Brightness and RGB
Rating	OFF / ★ to ★★★★★★ Select images / Select image / All images in folder / All images on card / All found images
Image Search	Search Conditions Rating / Date/ Folder /Protect / Type of file
Slide Show	<ul style="list-style-type: none"> • Display time 1-20 sec. • Repeat: Enable / Disable • Transition effect: Off /Slide in 1-2 / Fade 1-3 • Background music: Off / On
Quick Control Function	
Shortcut	Pressing the Quick Control button during Viewfinder shooting, Live View shooting, movie shooting or playback displays the Quick Control screen.
Image Protection and Erase	
Protection	Erase protection can be applied or canceled for a single image, all images in a folder or all images in the card.
Erase	Erase a single image, selected images, all images in a folder or all images in a card.

Direct Printing	
Compatible Printers	PictBridge-compatible printers (wireless LAN)
Printable Images	JPEG images compliant to Design rule for Camera File System. RAW images captured Movies cannot be printed.
DPOF: Digital Print Order Format	
DPOF	Compliant to DPOF Version 1.1
Direct Image Transfer	
Compatible Images	Not provided
Customization	
Custom Functions	29 Custom Functions are settable.
Custom Controls	Functions can be assigned to the following buttons: <ul style="list-style-type: none"> • Shutter button halfway pressing • AF-ON button • AE lock button • Depth-of-field preview button • Lens AF stop button • SET button • Main Dial • Quick Control Dial • Multi controller 1 and 2 (Same functions can be set.)
Multi Function Lock	The following controls can be locked: <ul style="list-style-type: none"> • Main dial • Quick control dial • Multi-controller 1 and 2 • Touch control
My Menu Registration	Up to six top-tier menu options and Custom Function settings can be registered. Up to five My Menu tabs can be added.
Interface	
USB Terminal	Hi-Speed USB (USB 2.0) <ul style="list-style-type: none"> • For PC communication • For GP-E2 connection • For Connect Station connection
Terminal Type	Micro-B
Video Out Terminal	HDMI Type C (Resolution switches automatically), CEC not supported. <ul style="list-style-type: none"> • Video is not displayed unless the video format appropriate for the connected TV set, [NTSC] or [PAL], is set.
Power Source	

Battery Pack LP-E6N (or LP-E6) x 1

- When the battery grip is used, two battery packs (LP-E6N or LP-E6) can be installed. Also usable with six AA/R6 batteries.

Number of Shots

Mode	Shooting Method	Battery	Temperature	Possible Shots (approx.)	
				AE Shooting	With Flash (50%)
Camera Body Only	Viewfinder Shooting	LP-E6N	At 73°F/23°C	1860	1300
			At 32°F/0°C	1850	1200
	Live View Shooting	LP-E6N	At 73°F/23°C	510	450
			At 32°F/0°C	500	440
With Battery Grip	Viewfinder Shooting	LP-E6N x2	At 73°F/23°C	3710	2590
			At 32°F/0°C	3690	2390
		AA/R6 Alkaline Batteries	At 73°F/23°C	210	200
			At 32°F/0°C	40	30
	AA/R6 Ni-MH Batteries	At 73°F/23°C	1860	1230	
		At 32°F/0°C	1840	1220	
	Live View Shooting	LP-E6N x2	At 73°F/23°C	1010	890
			At 32°F/0°C	990	870
		AA/R6 Alkaline Batteries	At 73°F/23°C	50	50
			At 32°F/0°C	10	10
AA/R6 Ni-MH Batteries		At 73°F/23°C	490	420	
		At 32°F/0°C	430	390	

Battery

Battery Check

Automatic battery check when the power switch is turned ON. Displayed in 6 levels.

- Battery level displayed on LCD panel and in viewfinder.
- Displayed in four levels with the battery grip with AA/R6 batteries.

Power Saving

Power turns off after the set time (10/30*sec., or 30 sec., 1, 2, 4, 8, or 15min.) of non-operation elapses.

*Set to 10 sec. normally and 30 sec. when setting functions, in Live View shooting and during image playback.

Date/Time Battery

Built-in secondary battery
Maintains date/time for about 3 months when fully charged

- Recharge time: approx. 8 hr.
To become capable to maintain the right date/time for one month after main battery power depletion.

Start-up Time

Approx. 0.2 sec. (Based on CIPA testing standards)

- Excluding the recognition time for genuineness (genuine Canon battery) at the installation of the battery.

Dimensions and Weight

Dimensions (W x H x D)

Approx. 5.54 x 4.13 x 3.03 in. / 140.7 x 104.8 x 76.8mm

Weight

Approx. 24.73 oz. / 701g (Based on CIPA guidelines)
Approx. 21.83 oz. / 619g (Body only; excluding the battery, card, body cap and eye cup)

Operating Environment

Working Temperature Range

32–104°F/0–40°C

Working Humidity Range

85% or less