



# Specifications (EOS R)

**Last Updated :** 07-Sep-2018

**Issue Number :** 6200584100

|                  |                         |  |
|------------------|-------------------------|--|
| Type             | Type                    | Digital single-lens non-reflex AF/AE camera  |
|                  | Recording media         | SD/SDHC/SDXC memory card<br>* UHS-II and UHS-I cards supported.  |
|                  | Image sensor size       | Approx. 36.0x24.0 mm   |
|                  | Compatible lenses       | Canon RF and EF lens product groups<br>* EF/EF-S lenses supported with a mount adapter attached (EF-M lenses not supported)  |
|                  | Effective angle of view | With RF/EF lenses: Approximately equivalent to the indicated focal length<br>With EF-S lenses: Approx. 1.6 times the indicated focal length  |
|                  | Lens mount              | Canon RF mount   |
| Image Sensor     | Type                    | CMOS sensor (supports Dual pixel CMOS AF)  |
|                  | Effective pixels        | Approx. 30.3 megapixels<br>* Rounded to the nearest 100,000.   |
|                  | Aspect ratio            | 3:2  |
|                  | Dust deletion           | Auto/Manual, Appending Dust Delete Data  |
| Recording System | Recording format        | Design rule for Camera File System (DCF) 2.0   |
|                  | Image type              | JPEG, RAW (CR3, a Canon 14-bit RAW format)<br>RAW+JPEG simultaneous recording possible   |
|                  | Pixels recorded         | L (Large) : Approx. 30.1 megapixels (6720x4480)<br>M (Medium) : Approx. 13.3 megapixels (4464x2976)<br>S1 (Small 1) : Approx. 7.5 megapixels (3360x2240)<br>S2 (Small 2) : Approx. 3.8 megapixels (2400x1600)<br>RAW : Approx. 30.1 megapixels (6720x4480)<br>C-RAW : Approx. 30.1 megapixels (6720x4480)<br>* Rounded to the nearest 100,000. |

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|----------------------------------|--|---|
|                                  | Dual Pixel RAW setting                         | Available   |
|                                  | Crop/aspect ratio                              | Cropped shooting and an aspect ratio can be set<br>Full-frame, Approx. 1.6x (crop), 1:1 (aspect ratio), 4:3 (aspect ratio), 16:9 (aspect ratio)   |
|                                  | Folder creation and selection                  | Available   |
|                                  | File name                                      | Preset code, User setting 1, User setting 2   |
|                                  | File numbering                                 | Continuous, Auto reset, Manual reset  |
| Image Processing During Shooting | Picture Style                                  | Auto, Standard, Portrait, Landscape, Fine Detail, Neutral, Faithful, Monochrome, User Defined 1–3   |
|                                  | White balance                                  | Auto (Ambience priority), Auto (White priority), Preset (Daylight, Shade, Cloudy, Tungsten light, White fluorescent light, Flash), Custom, Color temperature setting (approx. 2500–10000 K)<br>White balance correction and white balance bracketing features provided<br>* Flash color temperature information transmission possible |
|                                  | Automatic image brightness correction          | Auto Lighting Optimizer provided  |
|                                  | Noise reduction                                | Applicable to high ISO speed shots and long exposures   |
|                                  | Highlight tone priority                        | Available   |
|                                  | Lens aberration correction                     | Peripheral illumination correction, Distortion correction, Digital Lens Optimizer, Chromatic aberration correction, Diffraction correction  |
| Autofocus                        | Focus method                                   | Dual pixel CMOS AF  |
|                                  | AF method                                      | Face+Tracking, 1-point AF, Expand AF area (vertically/ horizontally), Expand AF area (around), Zone AF, Large Zone AF (vertical), Large Zone AF (horizontal)  |
|                                  | Available AF point positions                   | Max. 5,655  |
|                                  | Available AF areas when automatically selected | Max.143   |
|                                  | Touch & drag AF                                | Available   |
|                                  | Magnified view                                 | Approx. 5x/10x  |
|                                  | Focus distance display                         | With RF lenses  |
|                                  | Manual focus (MF)                              | MF peaking, focus guide   |

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| [Still photo shooting]         |   |  |
| AF operation                   | One-Shot AF, Servo AF   |  |
| Auto AF operation switching    | In Scene Intelligent Auto mode; can be set from a menu  |  |
| Eye Detection AF               | Available   |  |
| Continuous AF                  | Available   |  |
| AF area                        | Horizontal: Approx. 88%, Vertical: Approx. 100%<br>Horizontal: Approx. 80%, Vertical: Approx. 80%<br>* Varies depending on factors such as the lens and aspect ratio used |  |
| Focusing brightness range      | EV -6 to 18 (at room temperature, ISO 100, One-Shot AF)   |  |
| Servo AF characteristics       | Tracking sensitivity, Acceleration/deceleration tracking, and AF point auto switching   |  |
| AF-assist beam                 | Built-in LED lamp   |  |
| [Movie recording]              |   |  |
| AF area                        | [4K] Horizontal: Approx. 80%, Vertical: Approx. 100%<br>[Full HD/HD] Horizontal: Approx. 88%, Vertical: Approx. 100%  |  |
| Focusing brightness range      | EV -4 to 18 (at room temperature, ISO 100, One-Shot AF)   |  |
| Movie Servo AF                 | Available   |  |
| Movie Servo AF characteristics | Tracking sensitivity, AF speed  |  |
| Exposure Control               | Metering mode   | Real-time metering using the image sensor<br>384-zone (24x16) metering<br>Still photo shooting:<br><ul style="list-style-type: none"> <li>• Evaluative metering (linked to all AF points)</li> <li>• Partial metering (approx. 6.1% of screen, at center)</li> <li>• Spot metering (approx. 2.7% of screen, at center)</li> <li>• Center-weighted average metering</li> </ul> Movie recording:<br>Center-weighted average and Evaluative metering with the image sensor<br>* Automatically set by the focus method |
|                                | Focusing brightness range   | Still photo shooting: EV -3 to 20 (at room temperature, ISO 100)<br>Movie recording: EV -1 to 20 (at room temperature, ISO 100, center-weighted average metering)  |
|                                | Shutter   | Electronically-controlled, focal-plane shutter   |
|                                | Shutter speed   | 1/8000 sec. to 30 sec. (total shutter speed range;available range varies by shooting mode), Bulb, X-sync at 1/200 sec.<br>* Setting range differs when recording movies  |

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| Shooting mode                          | <p>Still photo shooting:<br/>Scene Intelligent Auto, Flexible-priority AE, Program AE, Shutter-priority AE, Aperture-priority AE, Manual exposure, Bulb exposure, Custom shooting modes (C1/C2/C3)</p> <p>Movie recording:<br/>Scene Intelligent Auto, Program AE, Shutter-priority AE, Aperture-priority AE, Manual exposure, Custom shooting modes (C1/C2/C3)</p>   |
| ISO speed (recommended exposure index) | <p>Still photo shooting:<br/>Scene Intelligent Auto: Automatically set within ISO 100–12800<br/>Fv/P/Tv/Av/M/BULB: ISO Auto, manually set within ISO 100–40000 (in 1/3- or 1-stop increments), expandable to L (equivalent to ISO 50), H1 (equivalent to ISO 51200), or H2 (equivalent to ISO 102400)<br/>* With highlight tone priority set, the minimum limit will be ISO 200.</p> <p>Movie recording:<br/>[4K]<br/>Scene Intelligent Auto: Automatically set within ISO 100–12800<br/>P/Tv/Av: Automatically set within ISO 100–12800, expandable to H2 (equivalent to ISO 102400)<br/>M: ISO Auto (automatically set within ISO 100–12800), manually set within ISO 100–12800 (in 1/3- or 1-stop increments), expandable to H2 (equivalent to ISO 102400)<br/>[Full HD/HD]<br/>Scene Intelligent Auto: Automatically set within ISO 100–25600<br/>P/Tv/Av: Automatically set within ISO 100–25600, expandable to H2 (equivalent to ISO 102400)<br/>M: ISO Auto (automatically set within ISO 100–25600), manually set within ISO 100–25600 (in 1/3- or 1-stop increments), expandable to H2 (equivalent to ISO 102400)<br/>* With highlight tone priority set, the minimum limit will be ISO 200<br/>* Setting range differs when recording time-lapse movies</p> |
| ISO speed settings                     | <p>Still photo shooting:<br/>ISO speed range, Auto range, Minimum shutter speed</p> <p>Movie recording:<br/>ISO speed range, Range for 4K, ISO Auto, 4K ISO Auto, Time-lapse ISO Auto</p>   |
| Exposure compensation                  | <p>Still photo shooting:<br/>Manual: <math>\pm 3</math> stops in 1/3- or 1/2-stop increments<br/>AEB: <math>\pm 3</math> stops in 1/3- or 1/2-stop increments (can be combined with manual exposure compensation)</p> <p>Movie recording: <math>\pm 3</math> stops in 1/3- or 1/2-stop increments</p>   |
| AE lock                                | <p>Still photo shooting:<br/>Auto: AE lock when focus is achieved can be enabled or disabled for each metering mode with a Custom Function<br/>Manual: With AE lock button<br/>Movie recording: With AE lock button</p>   |
| Flicker reduction                      | Available in still photo shooting   |
| Bulb timer                             | Bulb exposure time settable   |
| HDR shooting                           | <p>Dynamic range adjustment: Auto, <math>\pm 1</math>, <math>\pm 2</math>, <math>\pm 3</math><br/>Effects: Natural, Art standard, Art vivid, Art bold, Art embossed<br/>Auto image alignment: Available</p>   |
| Multiple                               | Shooting options: Function/control priority, Continuous shooting priority   |

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|                    | exposures   | Number of multiple exposures: 2 to 9 exposures<br>Multiple-exposure control: Additive, Average, Bright, Dark  |
|                    | Silent shutter  | Available   |
|                    | Touch shutter   | Available   |
|                    | Av 1/8-stop increments                                  | Available in movie recording  |
| Drive System       | Drive mode  | Single shooting, High-speed continuous shooting, Low-speed continuous shooting, Self-timer: 10 sec./remote control, Self-timer: 2 sec./remote control   |
|                    | Continuous shooting speed                               | High-speed continuous shooting: Max. approx. 8.0 shots/sec.<br>* Lower continuous shooting speed when reducing flicker, when set to Dual Pixel RAW or Servo AF, or during flash photography.<br>* The continuous shooting speed for high-speed continuous shooting may be lower, depending on conditions such as these: battery level, temperature, flicker reduction, Dual Pixel RAW shooting, Silent LV shooting, shutter speed, aperture, subject conditions, brightness, AF operation, type of lens, use of flash, and shooting settings.<br>Low-speed continuous shooting: Max. approx. 3.0 shots/sec. |
|                    | Max. burst  | JPEG Large/Fine: Approx. 100 shots (Approx. 100 shots)<br>RAW: Approx. 34 shots (Approx. 47 shots)<br>RAW+JPEG Large/Fine: Approx. 34 shots (Approx. 39 shots)<br>* Measured under conditions and with an SD card conforming to Canon testing standards (32 GB standard/UHS-II card, High-speed continuous shooting, Full-frame still photo cropping/aspect ratio, ISO 100, without Dual Pixel RAW, Standard Picture Style).<br>* Figures in parentheses are the number of shots when a Canon's standard testing UHS-II SD card is used.  |
|                    | High-speed display                                      | Available   |
| External Speedlite | Compatible Speedlites                                   | EL/EX series Speedlites   |
|                    | Flash metering  | E-TTL II autoflash  |
|                    | Automatic firing  | Available with Speedlites equipped with this feature  |
|                    | Safety FE   | Available   |
|                    | Flash exposure compensation                             | ±3 stops in 1/3- or 1/2-stop increments   |
|                    | FE lock   | Available   |
|                    | Continuous shooting priority mode                       | Available with Speedlites equipped with this feature  |
|                    | PC terminal   | Not provided  |
| Flash control      | Flash function settings, Flash Custom Function settings |   |
| Movie Recording    | Recording format  | MP4   |
|                    | Video   | MPEG-4 AVC/H.264, variable (average) bit rate   |

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| Audio   | For editing (ALL-I): linear PCM<br>Standard (IPB), Light (IPB): AAC  |
| Movie recording size  | 4K (3840x2160), Full HD (1920x1080), HD (1280x720)<br>High Frame Rate movies: HD<br>HDR movies:<br><ul style="list-style-type: none"> <li>• With RF/EF lenses: Full HD</li> <li>• With EF-S lenses and movie cropping: HD</li> </ul> Time-lapse movies: 4K/Full HD   |
| Frame rate  | 119.9p/59.94p/29.97p/24.00p/23.98p (with NTSC)<br>100.0p/50.00p/25.00p/24.00p (with PAL)<br>* 119.9p/100.0p used for High Frame Rate movies  |
| Compression method  | For editing (ALL-I), Standard (IPB), Light (IPB)   |
| Bit rate/Card performance requirements: (writing/reading speed) | 4K (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I) :Approx. 480 Mbps/UHS-II, Video Speed Class 60 or higher<br>4K (29.97p/25.00p/24.00p/23.98p)/Standard (IPB) : Approx. 120 Mbps/UHS-I, UHS Speed Class 3 or higher<br>Full HD (59.94p/50.00p)/For editing (ALL-I) : Approx. 180 Mbps/UHS-I, UHS Speed Class 3 or higher<br>Full HD (59.94p/50.00p)/Standard (IPB) : Approx. 60 Mbps/SD Speed Class 10 or higher<br>Full HD (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I) : Approx. 90 Mbps/UHS-I, UHS Speed Class 3 or higher<br>Full HD (29.97p/25.00p/24.00p/23.98p)/Standard (IPB) : Approx. 30 Mbps/SD Speed Class 4 or higher<br>Full HD (29.97p/25.00p)/Light (IPB) : Approx. 12 Mbps/SD Speed Class 4 or higher<br>HD (119.9p/100.0p)/For editing (ALL-I) : Approx. 160 Mbps/UHS-I, UHS Speed Class 3 or higher<br>HD (59.94p/50.00p)/For editing (ALL-I) : Approx. 80 Mbps/SD Speed Class 10 or higher<br>HD (59.94p/50.00p)/Standard (IPB) : Approx. 26 Mbps/SD Speed Class 4 or higher<br>HD (29.97p/25.00p)/Standard (IPB) : Approx. 13 Mbps/SD Speed Class 4 or higher |
| Sound recording   | Built-in stereo microphones, external stereo microphone jack provided<br>Sound-recording level adjustable, wind filter provided, attenuator provided   |
| Headphone   | Headphone terminal provided, volume adjustable   |
| Cropped movies  | Available  |
| Movie digital IS  | Available (Enable/Enhanced)  |
| HDR movies  | Available  |
| Time-lapse movies   | 4K or Full HD  |
| Time code   | Can be appended  |
| Canon Log   | Available for card recording (when set to 8-bit) and HDMI output (when set to 8-bit/10-bit)  |
| HDMI output   | Image output without information display available<br>* 4K output supported; Auto/1080p selectable   |

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|            | Remote control shooting   | Available  |
|            | Still photo shooting      | Not available during movie recording   |
| Screen     | Type                      | TFT color, liquid-crystal monitor  |
|            | Screen size and dots      | Approx. 8.01 cm (3.15 in.) (3:2) with approx. 2.1 million dots   |
|            | Field of view (coverage)  | Still photo shooting: Approx. 100% vertically/horizontally (when set to JPEG Large)<br>Movie recording: Approx. 100% vertically/horizontally   |
|            | Angular adjustment        | Opening: Approx. 0–175°<br>Rotation: Approx. 0–90° forward, approx. 0–180° backward  |
|            | Brightness adjustment     | Manual (7 levels)  |
|            | Color adjustment          | Warm tone, Standard, Cool tone 1, Cool tone 2  |
|            | Display performance       | Power saving, Smooth   |
|            | Interface languages       | 29   |
|            | Touch-screen panel        | Capacitive sensing   |
| Viewfinder | Type                      | OLED color electronic viewfinder   |
|            | Screen size and dots      | 0.5-inch (4:3) with approx. 3.69 million dots  |
|            | Field of view (coverage)  | Still photo shooting: Approx. 100% vertically/horizontally (eyepoint: approx. 23 mm; set to JPEG Large)<br>Movie recording: Approx. 100% vertically/horizontally   |
|            | Magnification             | Approx. 0.76x ( $-1 \text{ m}^{-1}$ with 50mm lens at infinity)  |
|            | Eyepoint                  | Approx. 23 mm (from eyepiece lens end at $-1 \text{ m}^{-1}$ )   |
|            | Dioptric adjustment range | Approx. $-4.0$ to $+2.0 \text{ m}^{-1}$ (dpt)  |
|            | Brightness adjustment     | Manual (5 levels)  |
|            | Color adjustment          | Warm tone, Standard, Cool tone 1, Cool tone 2  |
| Playback   | Image display format      | Single-image display (without shooting information), Single-image display (with basic information), Single-image display (Shooting information displayed: Detailed information, Lens/histogram, White balance, Picture Style 1, Picture Style 2, Color space/noise reduction, Lens aberration correction 1, Lens aberration correction 2, Image transfer information, GPS information, IPTC information), Index display (4/9/36/100 images)<br>* Customizable shooting information display |

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|                        | Highlight alert                | Overexposed highlights blink  |
|                        | AF point display               | Available   |
|                        | Grid display                   | 3 types   |
|                        | Magnified view                 | Approx. 1.5x–10x, initial magnification and position settable   |
|                        | Image search                   | Search conditions settable (by rating, date, folder, protected, file type)  |
|                        | Image browsing method          | 1 image, 10 images, Specified number, Date, Folder, Movies, Stills, Protect, Rating   |
|                        | Image rotation                 | Available   |
|                        | Image protection               | Available   |
|                        | Rating                         | Available   |
|                        | Movie playback                 | Available   |
|                        | Start/end movie scene editing  | Available   |
|                        | 4K movie frame grab            | Extraction of specified movie frames and saving as JPEG images  |
|                        | Slide show                     | All images or images matching the search conditions are played back automatically.  |
|                        | In-camera RAW image processing | RAW and C-RAW image processing possible<br>Brightness adjustment, White balance, Picture Style, Auto Lighting Optimizer, High ISO speed noise reduction, JPEG image-recording quality, Color space, Lens aberration correction (Peripheral illumination correction, Distortion correction, Digital Lens Optimizer, Chromatic aberration correction, Diffraction correction) |
|                        | Resizing                       | Available   |
|                        | Cropping                       | Available   |
|                        | Print ordering                 | DPOF version 1.1 compatible   |
| Customization Features | Custom Functions               | 19 functions, customization of button, dial, and M-Fn bar operation   |
|                        | Custom shooting modes          | Still photo C1/C2/C3 modes, movie C1/C2/C3 modes  |
|                        | My Menu                        | Up to 5 screens can be registered   |
|                        | Copyright information          | Text entry and appending possible   |
|                        | IPTC information               | Can be appended   |
| Interface              | Digital terminal               | SuperSpeed USB (USB 3.1 Gen 1) equivalent, USB Type-C<br>Computer communication, charging with USB Power Adapter PD-E1  |
|                        | HDMI mini OUT terminal         | Type C (auto switching of resolution)   |
|                        | External                       | 3.5 mm diameter stereo mini-jack  |



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|                       | microphone IN terminal                     | Directional Stereo Microphone DM-E1 or commercially-available external microphone connectable  |
|                       | Remote control terminal                    | Compatible with Remote Switch RS-60E3  |
|                       | Wireless remote control                    | Compatible with Wireless Remote Control BR-E1 (via Bluetooth)  |
| Wireless Features     | [Wi-Fi]                                    |  |
|                       | Standards compliance                       | IEEE 802.11b/g/n   |
|                       | Transmission method                        | DS-SS modulation (IEEE 802.11b), OFDM modulation (IEEE 802.11g/n)  |
|                       | Transmission frequency (central frequency) | Frequency: 2412 to 2462 MHz<br>Channels: 1-11  |
|                       | Connection method                          | Camera access point mode, infrastructure*<br>* Wi-Fi Protected Setup supported   |
|                       | Security                                   | Authentication method: Open system, Shared key, WPA/WPA2-PSK<br>Encryption: WEP, TKIP, AES   |
|                       | Compatible devices/services                | Smartphones, computers, Wi-Fi printers, Web services   |
|                       | [Bluetooth]                                |  |
|                       | Standards compliance                       | Bluetooth Specification Version 4.1 compliant (Bluetooth low energy technology)  |
|                       | Transmission method                        | GFSK modulation  |
|                       | Compatible devices                         | Smartphones, wireless remote controls  |
| Power                 | Battery                                    | Battery Pack LP-E6N/LP-E6, quantity 1<br>* AC power usable with household power outlet accessories.<br>* USB Power Adapter PD-E1 enables in-camera charging of LP-E6N.   |
|                       | Battery information                        | Power source, Battery level, Shutter count, Recharge performance, Battery registration possible  |
|                       | Number of possible shots                   | Approx. 370 shots at room temperature (+23°C/73°F), approx. 350 shots at low temperatures (0°C/32°F)<br>* Using a fully charged Battery Pack LP-E6N, with display set to [Smooth]                                    |
|                       | Movie recording time available             | Total approx. 2 hr. 20 min. at room temperature(+23°C/73°F)<br>Total approx. 2 hr. 10 min. at low temperatures (0°C/32°F)<br>* With a fully-charged Battery Pack LP-E6N, Movie Servo AF enabled, and 4K/Full HD set. |
| Dimensions and Weight | Dimensions (WxHxD)                         | Approx. 135.8x98.3x84.4 mm / 5.35x3.87x3.32 in.  |
|                       | Weight                                     | Approx. 660 g / 23.28 oz. (including battery pack and card)/Approx. 580 g / 20.46 oz. (body only)  |

|                       |                           |                     |
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| Operating Environment | Working temperature range | 0-40 °C (32-104 °F) |
|                       | Working humidity          | 85 % or less        |

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| See | <ul style="list-style-type: none"> <li>•All the data above is based on Canon’s testing standards and CIPA (Camera &amp; Imaging Products Association) testing standards and guidelines.</li> </ul> |
|     | <ul style="list-style-type: none"> <li>•Dimensions and weight listed above are based on CIPA Guidelines (except weight for camera body only).</li> </ul>   |
|     | <ul style="list-style-type: none"> <li>•Product specifications and the exterior are subject to change without notice.</li> </ul>   |
|     | <ul style="list-style-type: none"> <li>•If a problem occurs with a non-Canon lens attached to the camera, consult the respective lens manufacturer.</li> </ul>                                     |

## Was this helpful?

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It covered my problem, but the solution still didn't work

The information on the page is hard to understand

It has nothing to do with my issue

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