Canon
SEE IMPOSSIBLE

EOS R

# Specifications

| | |
|---|---|
| **Type** | |
| **Type** | Digital single-lens non-reflex AF/AE camera |
| **Recording Media** | SD/SDHC/SDXC memory cards<br>• SD speed class-compatible<br>• UHS speed class-compatible<br>• High-speed writing is supported when a UHS-I compatible SD card is used.<br>• Compatible with Eye-Fi cards.<br>• Multimedia cards (MMC) cannot be used (card error will be displayed). |
| **Image Format** | Approx. 36.0 x 24.0mm |
| **Compatible Lenses** | Canon RF lens group (excluding EF, EF-S and EF-M lenses)<br>When using Mount Adapter EF-EOS R: Canon EF or EF-S lenses (excluding EF-M lenses) |
| **Lens Mount** | Canon RF mount |
| **Image Sensor** | |
| **Type** | CMOS sensor (compatible with Dual Pixel CMOS AF) |
| **Effective Pixels** | Approx. 30.3 megapixels |
| **Pixel Unit** | Approx. 5.36 µm square |
| **Total Pixels** | Approx. 31.7 megapixels |
| **Aspect Ratio** | 3:2 (Horizontal:Vertical) |
| **Color Filter System** | RGB primary color filters |
| **Low Pass Filter** | Installed in front of the image sensor, non-detachable |
| **Dust Deletion Feature** | (1) Self Cleaning Sensor Unit<br>• Removes dust adhering to the low-pass filter.<br>• At power off only / Enable / Disable. Performed automatically (taking about 3.0 sec. as indicated on the screen) or manually (taking about 9.0 sec. as indicated on the screen).<br>• After manually activated cleaning, the camera will automatically restart (Power OFF to ON).<br>• When [Multi Shot Noise Reduction], [Multiple exposures], or [HDR mode] is set, [Clean now] and [Clean manually] cannot be selected.<br>(2) Dust Delete Data acquisition and appending<br>• The coordinates of the dust adhering to the low-pass filter are detected by a test shot and appended to subsequent images.<br>• The dust coordinate data appended to the image is used by the provided software to automatically erase the dust spots.<br>• Not available with EF-S lenses, in cropped shooting or when distortion correction is applied.<br>(3) Manual cleaning (by hand) |

| Recording System | |
|---|---|
| **Recording Format** | Compliant to Design rule for Camera File system 2.0 and Exif 2.3.<br>Supports time difference information in Exif 2.31. |
| **Image Format** | JPEG, RAW (14 bit Canon original), C-RAW (Canon original) |
| **File Size** | 3:2 Aspect Ratio<br>Large/RAW/C-RAW: 6720 x 4480<br>Medium: 4464 x 2976<br>Small 1: 3360 x 2240<br>Small 2: 2400 x 1600<br><br>1.6x (Crop)<br>Large/RAW/C-RAW: 4176 x 2784<br>Small 2: 2400 x 1600<br><br>4:3 Aspect Ratio<br>Large/RAW/C-RAW: 5952 x 4480*<br>Medium: 3968 x 2976<br>Small 1: 2976 x 2240*<br>Small 2: 2112 x 1600*<br><br>16:9 Aspect Ratio*<br>Large/RAW/C-RAW: 6720 x 3776<br>Medium: 4464 x 2512<br>Small 1: 3360 x 1888<br>Small 2: 2400 x 1344<br><br>1:1 Aspect Ratio<br>Large/RAW/C-RAW: 4480 x 4480<br>Medium: 2976 x 2976<br>Small 1: 2240 x 2240<br>Small 2: 1600 x 1600<br><br>• Values for Recording Pixels are rounded to the nearest 100,000 or 10,000.<br>• For RAW and JPEG images, information outside the cropping area is not retained.<br>• JPEG images are generated in the set aspect ratio.<br>• RAW images are generated in [3:2], and the set aspect ratio is appended.<br><br>* Indicate an inexact proportion. |
| **File Numbering** | The following file numbers can be set:<br>1. File numbering methods<br>a. Continuous numbering<br>i. The numbering of captured images continues even after you replace the card.<br>b. Auto reset<br>i. When you replace the card, the numbering will be reset to start from 0001. If the new SD card already contains images, the numbering will continue from the last recorded image in the card.<br>2. Manual reset<br>a. Resets the file number to 0001, and creates a new folder automatically. |
| **RAW + JPEG Simultaneous Recording** | Possible |
| **Color Space** | Selectable between sRGB and Adobe RGB |

<table>
<tr><td>Picture Style</td><td>(1) Auto<br>(2) Standard<br>(3) Portrait<br>(4) Landscape<br>(5) Fine Detail<br>(6) Neutral<br>(7) Faithful<br>(8) Monochrome<br>(9) User Defined 1–3<br>• In Scene Intelligent Auto, [Auto] will be set automatically.<br>• [Standard] is the default setting for [User Def. 1–3].</td></tr>
<tr><td colspan="2">White Balance</td></tr>
<tr><td>Settings</td><td>(1) Auto (Ambience priority/White priority)<br>(2) Daylight<br>(3) Shade<br>(4) Cloudy*<br>(5) Tungsten light<br>(6) White fluorescent light<br>(7) Flash<br>(8) Custom (Custom WB)<br>(9) Color temperature<br>* Effective also in twilight and sunset.</td></tr>
<tr><td>Auto White Balance</td><td>Option between ambience priority and white priority settings.</td></tr>
<tr><td>Color Temperature Compensation</td><td>Blue/amber bias: ±9 levels<br>Magenta/green bias: ±9 levels<br>Corrected in reference to the current WB mode's color temperature.</td></tr>
<tr><td colspan="2">Viewfinder</td></tr>
<tr><td>Type</td><td>OLED color electronic viewfinder</td></tr>
<tr><td>Coverage</td><td>Approx. 100% vertically and horizontally relative to the shooting image area (with image quality L, at approx. 23mm eyepoint).
<table>
<tr><td rowspan="3">Image Quality</td><td colspan="6">Cropping/Aspect Ratio</td></tr>
<tr><td colspan="4">Aspect Ratio</td><td colspan="2">Aspect Ratio (Cropping)</td></tr>
<tr><td>3:2</td><td>16:9</td><td>4:3</td><td>1:1</td><td>3:2</td><td>16:9</td></tr>
<tr><td>L/RAW/C-RAW</td><td>Approx. 100%</td><td>Approx. 100%</td><td>Approx. 100%</td><td>Approx. 100%</td><td>Approx. 100%</td><td>Approx. 100%*1</td></tr>
<tr><td>M</td><td>Approx. 100%*1</td><td>Approx. 100%*1</td><td>Approx. 100%*1</td><td>Approx. 100%*1</td><td></td><td></td></tr>
<tr><td>S1</td><td>Approx. 100%</td><td>Approx. 100%</td><td>Approx. 100%</td><td>Approx. 100%</td><td></td><td></td></tr>
<tr><td>S2</td><td>Approx. 100%</td><td>Approx. 100%*1</td><td>*2</td><td>Approx. 100%</td><td>Approx. 100%</td><td>Approx. 100%</td></tr>
</table>
*1 Viewfinder coverage may become more than 100% (up to 100.36%).<br>*2 Viewfinder coverage may become more than 100% (up to 100.5% of viewfinder coverage).</td></tr>
<tr><td>Magnification</td><td>Approx. 0.71x/33.3° (Approx. 0.76 (with 50mm lens at infinity, -1 $m^{-1}$)</td></tr>
<tr><td>Eye Point</td><td>Approx. 23mm (at -1 $m^{-1}$ from the eyepiece lens end)</td></tr>
<tr><td>Dioptric Adjustment Range</td><td>Approx. -4.0 to +2.0 $m^{-1}$ (dpt)</td></tr>
</table>

| | |
|---|---|
| **Viewfinder Information** | (1) AF point information<br>(2) Number of remaining multiple exposures<br>(3) HDR shooting<br>(4) Multiple-exposure shooting<br>(5) Dual Pixel RAW shooting<br>(6) Multi Shot Noise Reduction<br>(7) Digital Lens Optimizer<br>(8) AF method<br>(9) AF operation<br>(10) Drive mode<br>(11) Metering mode<br>(12) Anti-flicker shooting<br>(13) Shooting mode<br>(14) Scene icons<br>(15) AE lock<br>(16) Flash-ready<br>(17) Flash off<br>(18) FE lock<br>(19) High-speed sync<br>(20) Shutter speed<br>(21) Multi-function lock warning<br>(22) Aperture<br>(23) Lens information<br>(24) Exposure level indicator<br>(25) Exposure compensation<br>(26) Highlight tone priority<br>(27) ISO speed<br>(28) Possible shots<br>(29) Number of self-timer shooting<br>(30) Maximum burst<br>(31) Battery level<br>(32) Exposure simulation<br>(33) AEB<br>(34) FEB<br>(35) Still photo cropping<br>(36) Aspect ratio<br>(37) Auto Lighting Optimizer<br>(38) Picture Style<br>(39) White balance<br>(40) White balance correction<br>(41) Image Quality<br>(42) Bluetooth® function<br>(43) Wi-Fi® function<br>(44) Histogram<br>(45) Electronic level |
| **Autofocus** | |
| **Type** | Phase-difference detection system with image sensor (Dual Pixel CMOS AF) |
| **AF Points** | Max. 5,655<br>When selected with cross keys. |
| **AF Working Range** | EV -6 to 18 (f/1.2, at 73°F/23°C, ISO 100, One-Shot AF) |
| **Focusing Modes** | (1) One-Shot AF<br>(2) Servo AF<br>(3) Manual (Manual focus) |

**AF Point Selection and AF Operation**

| AF Method | AF Point Selection | AF Operation |
|---|---|---|
| Face+Tracking AF | Automatic selection (auto detection), or AF points can be set manually and freely in the AF area. | AF prioritizing subjects targeted by Face+Tracking. If no Face+Tracking subject is detected, the entire AF area is used for auto selection AF. |
| 1-point AF<br>([AF frame size] can be set to [Small]) | AF points can be set manually and freely in the AF area. | AF targeting specified AF points.<br>(If there are faces in the area, they take precedence.) |
| Expand AF Area<br>(Above, below, left and right/Around) | AF points can be set manually and freely in the AF area. | AF prioritizing specified AF points, supplemented by AF points above, below, left and right or around in the expansion area.<br>(If there are faces in the area, they take precedence.) |
| Zone AF<br>Large Zone AF (Vertical/Horizontal) | Zones covering specific areas can be set manually and freely in the AF area. | Automatic AF point selection in the specified zone.<br>(Prioritizes subjects at close range, but any faces in the area take precedence.) |

• AF points can be moved by touching the screen or using the Main Dial, Quick Control Dial or cross keys.

**AF Assist Beam**

(1) Enable
(2) Disable
(3) LED AF assist beam only
• Focus range with the AF-assist beam is generally no more than 13.1 ft. / 4m (at f/5.6).

## Exposure Control

**Metering Modes**

Real-time metering with image sensor (384 [24x16])
(1) Evaluative metering (AF point-linked)
(2) Partial metering (approx. 6.1% of the area at the center of the screen)
(3) Spot metering (approx. 2.7% of the area at the center of the screen)
• AF point-linked spot metering not provided.
(4) Center-weighted average metering

**Metering Range**

EV -3 – 20 (at 73°F/23°C, ISO 100)

**Exposure Control Systems**

(1) Scene Intelligent Auto
(2) Flexible-priority AE
(3) Program AE (shiftable)
(4) Shutter-priority AE (Safety shift possible)
(5) Aperture-priority AE (Safety shift possible)
(6) Manual exposure
(7) Bulb
(8) Custom shooting mode C1, C2, C3

**ISO Speed Range**

Manual Setting

| | |
|---|---|
| Normal | ISO 100 to 40000 (in 1/3-stop or whole-stop increments) |
| Expanded | L: equivalent to ISO 50, H1: 51200, H2: 102400 |

• For [Highlight tone priority], the settable ISO speed range will be ISO 200 to 40000.
• ISO speed safety shift possible with Custom Function.
• All the expanded ISO speeds, even for movies, are only "equivalent speeds."

Auto

| Shooting Mode | ISO Settings | |
|---|---|---|
| | No Flash | With Flash |
| Scene Intelligent Auto | ISO 100–12800 | ISO 100–1600 |
| Fv/P/Tv/Av/M | ISO 100–40000*1 | ISO 100–1600*1 |
| B | ISO 400 fixed | ISO 400 fixed |

*1 It depends on [Minimum] and [Maximum] of [ISO speed settings][Range for stills].

<table>
<tr><td>Exposure Compensation</td><td>
<table>
<tr><td>Manual</td><td>±3 stops in 1/3- or 1/2-stop increments</td></tr>
<tr><td>AEB</td><td>±3 stops in 1/3- or 1/2-stop increments</td></tr>
</table>
</td></tr>
<tr><td>AE Lock</td><td>(1) Auto AE lock<br>• The metering mode for AE lock after focus can be customized.<br>(2) Manual AE lock<br>• In the Fv, P, Tv, Av and M modes, enabled with the AE lock button. (Press again to update.)<br>• Enabled in all metering modes.</td></tr>
<tr><td colspan="2">Shutter</td></tr>
<tr><td>Type</td><td>Electronically controlled focal-plane shutter<br>(1) Electronic first curtain, mechanical second curtain<br>(2) Electronic shutter (slit rolling read out)<br>(3) Mechanical first and second curtain</td></tr>
<tr><td>Shutter Speeds</td><td>1/8000 to 30 sec., bulb (total range of all shooting modes)</td></tr>
<tr><td>Shutter Release</td><td>Soft-touch electromagnetic release</td></tr>
<tr><td>Self Timer</td><td>10-sec. delay, 2-sec. delay</td></tr>
<tr><td>Shutter Lag Time</td><td>With SW-1 ON, time lag between SW-2 ON
<table>
<tr><th>Drive Mode</th><th>Silent LV Shooting</th><th>Release Time Lag</th></tr>
<tr><td rowspan="2">Single Shooting</td><td>Mode 1</td><td>Approx. 50 ms</td></tr>
<tr><td>Disable</td><td>Approx. 120 ms</td></tr>
<tr><td>Silent Shutter</td><td>–</td><td>Approx. 50 ms</td></tr>
</table>
With the aperture stopped down by 3 stops or less from the open aperture.<br>Without flash.<br>If the SW-1 and SW-2 are pressed simultaneously, release time lag will be long.<br>The release time lag may become further longer depending on shooting conditions, such as when shooting in a dark environment.</td></tr>
<tr><td colspan="2">External Speedlite</td></tr>
<tr><td>Flash Metering</td><td>E-TTL II autoflash</td></tr>
<tr><td>Flash Exposure Compensation</td><td>±3 stops in 1/3- or 1/2-stop increments</td></tr>
<tr><td>FE Lock</td><td>Provided</td></tr>
<tr><td>External Flash Settings</td><td>The camera can set the following with EX series Speedlites:<br>(1) External flash control<br>• Flash firing, E-TTL II Flash metering, Slow synchro, Safety FE, Flash mode, Wireless function, Flash zoom, Shutter synchronization and Flash exposure compensation<br>(2) Flash Custom Function setting<br>• The setting options for both (1) and (2) will differ depending on the Speedlite used.</td></tr>
</table>

## Drive System

**Drive Modes and Continuous Shooting Speed**

(1) Single shooting
(2)High-speed continuous shooting
- Max. approx. 8.0 fps
  - The conditions are attaining the maximum continuous shooting speed are as follows:
  - Shooting with a fully charged battery in One-Shot AF mode at a 1/1000 sec. or faster shutter speed and maximum aperture (depending on the lens), at room temperature (73°F/23°C), with flicker reduction, Dual Pixel RAW shooting and Digital Lens Optimizer disabled.
  - In One-Shot AF mode with Image Stabilizer off when using these lenses: EF 300mm f/4L IS USM, EF 28–135mm f/3.5–5.6 IS USM, EF 75–300mm f/4–5.6 IS USM, EF 100–400mm f/4.5–5.6L IS USM.
  - 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, shutter speed, aperture, subject conditions, brightness, AF operation, type of lens, use of flash and shooting settings.
  - The maximum continuous shooting speed may be lower when using a cold battery in cold environments or when the battery level is low, at approx. 6.0 shots/sec.
- With Servo AF: Max. approx. 5.0 fps (shooting speed priority)
  [Silent LV shooting: Mode 1]
  - With Servo AF, the maximum continuous shooting speed may become slower depending on subject conditions or the lens used. Also, the maximum continuous shooting speed will become slower when setting the [LV silent shooting] to [Disable].

(3) Low-speed continuous shooting (Tracking priority)
- Max. approx. 3.0 fps
- With Dual Pixel RAW: Max. approx. 2.2 fps
  - High-speed continuous shooting not possible.

(4) Self-timer: 10 sec./remote control
(5) Self-timer: 2 sec./remote control

**Maximum Burst**

| Image Quality | Image File Size (approx. MB) | Possible Shots (approx.) | Maximum Burst (approx.) | |
|---|---|---|---|---|
| | | | Standard | High-speed (UHS-II) |
| Large (Fine) | 8.4 | 3570 | 100 | 100 |
| Large (Normal) | 4.4 | 6770 | 100 | 100 |
| Medium (Fine) | 4.7 | 6460 | 100 | 100 |
| Medium (Normal) | 2.6 | 11510 | 100 | 100 |
| Small 1 (Fine) | 3.1 | 9700 | 100 | 110 |
| Small 1 (Normal) | 1.8 | 16040 | 100 | 110 |
| Small 2 | 1.6 | 18830 | 100 | 110 |
| RAW | 31.3 | 970 | 34 | 47 |
| RAW:Dual Pixel RAW | 55.2 | 520 | 17 | Full |
| C-RAW | 17.3 | 1770 | 61 | 78 |
| C-RAW: Dual Pixel RAW | 27.8 | 1000 | 150 | Full |
| RAW + Large (Fine) | 31.3 + 8.4 | 760 | 34 | 39 |
| C-RAW + Large (Fine) | 17.3 + 8.4 | 1180 | 55 | 56 |

- The number of possible shots and maximum burst (standard) apply to a 32 GB card based on Canon's testing standards. The maximum burst (High-speed) apply to a 32 GB card based on Canon's testing standards.
- The file size, number of possible shots and maximum burst vary depending on shooting conditions (aspect ratio of 3:2, subject, memory card brand, ISO speed, Picture Style, Custom Function, etc.)
- "Full" indicates that shooting is possible until the card becomes full.

## Live View Functions

| | |
|---|---|
| **Shooting Modes** | Still photo shooting and video shooting |
| **Focusing** | (1) Dual Pixel CMOS AF<br>(2) Manual focus<br>• Magnified view possible by approx. 5x or 10x for manual focusing (not possible during movie shooting). |
| **Metering Modes** | (1) Center-weighted average metering<br>• Metering brightness range: EV -1 – 20 (at 73°F/23°C, ISO 100)<br>(2) AF point-linked evaluative metering<br>• For face detection with Face detection + Tracking AF. |
| **Metering Range** | EV -4 – 18 (at 73°F/23°C, ISO 100, One-Shot AF, with 29.97 fps) |
| **Grid Display** | (1) Off<br>(2) 3x3<br>(3) 6x4<br>(4) 3x3+diag |

## Video Shooting

| | |
|---|---|
| **File Format** | MP4<br>Video: MPEG-4 AVC / H.264<br>• Variable (averaged) bit rate<br>Audio:<br>ALL-I: Linear PCM<br>IPB: AAC |
| **Video Recording Size and Frame Rates** | See table below |

| NTSC | | |
|---|---|---|
| 4K (UHD)<br>3840 x 2160 | 29.97 fps | ALL-I |
| | | IPB |
| | 24.00 fps | ALL-I |
| | | IPB |
| | 23.98 fps | ALL-I |
| | | IPB |
| Full HD<br>1920 x 1080 | 59.94 fps | ALL-I |
| | | IPB |
| | 29.97 fps | ALL-I |
| | | IPB |
| | | IPB (Light) |
| | 24.00 fps | ALL-I |
| | | IPB |
| | 23.98 fps | ALL-I |
| | | IPB |
| HD<br>1280 x 720 | 119.9 fps | ALL-I |
| | 59.94 fps | ALL-I |
| | | IPB |
| | 29.97 fps | IPB |

• Full HD 59.94 fps not available during EF-S cropped shooting.

**Continuous Shooting Time**

| Video Recording Size | | | Total Recording Time (approx.) | | | Bit Rate/File Size (approx.) |
|---|---|---|---|---|---|---|
| | | | 8GB | 32GB | 128GB | |
| 4K (UHD) 3840 x 2160 | 29.97 fps 24.00 fps 23.98 fps | ALL-I | 2 min. | 8 min. | 35 min. | 480 Mbps 3444 MB/min. |
| | | IPB | 8 min. | 35 min. | 2 hr. 21 min. | 120 Mbps 860 MB/min. |
| Full HD 1920 x 1080 | 59.94 fps | ALL-I | 5 min. | 23 min. | 1 hr. 34 min. | 180 Mbps 1298 MB/min. |
| | | IPB | 17 min. | 1 hr. 10 min. | 4 hr. 43 min. | 60 Mbps 431 MB/min. |
| | 29.97 fps 24.00 fps 23.98 fps HDR Movies | ALL-I | 11 min. | 46 min. | 3 hr. 6 min. | 90 Mbps 654 MB/min. |
| | | IPB | 35 min. | 2 hr. 20 min. | 9 hr. 23 min. | 30 Mbps 216 MB/min. |
| | 29.97 fps | IPB (Light) | 1 hr. 26 min. | 5 hr. 47 min. | 23 hr. 11 min. | 12 Mbps 87 MB/min. |
| HD 1280 x 720 | 119.9 fps | ALL-I | 6 min. | 26 min. | 1 hr. 46 min. | 160 Mbps 1144 MB/min. |
| | 59.94 fps | ALL-I | 13 min. | 52 min. | 3 hr. 29 min. | 80 Mbps 583 MB/min. |
| | | IPB | 40 min. | 2 hr. 42 min. | 10 hr. 49 min. | 26 Mbps 187 MB/min. |
| | 29.97 fps HDR Movies | IPB | 1 hr. 20 min. | 5 hr. 21 min. | 21 hr. 26 min. | 13 Mbps 94 MB/min. |

- Bit rate indicates video output only, audio is not included.
- If the recording time reaches 29 min. 59 sec. (or 7 min. 29 sec. for a HD High Frame Rate Movie), the movie shooting will stop automatically.
- There is no restriction to automatically stop movie shooting even when the file size reaches 4 GB.
- When the compression method for movie recording quality is IPB or IPB (Light) (audio: AAC), sound will not be recorded for approx. the last two frames.
- When you play back movies on Windows, movie images and sound may become slightly out of synchronization.

**Exposure Control**

| Shooting Mode | Exposure Control | Shutter Speed (sec.) | | Aperture | |
|---|---|---|---|---|---|
| | | Auto | Manual | Auto | Manual |
| A+, P | Program AE for movies | Yes | — | Yes | — |
| Tv | Movie shutter-priority AE | — | Yes | Yes | — |
| Av | Movie aperture-priority AE | Yes | — | — | Yes |
| M | Movie manual exposure | — | Yes | — | Yes |

**Shutter Speed**

| Frame Rate | Settable Shutter Speeds | | |
|---|---|---|---|
| | Normal Movie Shooting | HDR Movie Shooting | |
| | | M Mode | Tv Mode |
| 119.9 fps | 1/4000 to 1/125 | — | |
| 59.94 fps | 1/4000 to 1/8 | | |
| 29.97 fps | 1/4000 to 1/8 | 1/1000 to 1/60 | 1/4000 to 1/60 |
| 24.00 fps | 1/4000 to 1/8 | — | |
| 23.98 fps | | | |

**ISO Speed (Recommended Exposure Index)**

| Shooting Mode | ISO Speed | Full HD / HD | | 4K | |
|---|---|---|---|---|---|
| | | Auto | Manual | Auto | Manual |
| A+ | Normal ISO | 100 to 25600 | | 100 to 12800 | |
| P, Tv, Av | Normal ISO Speed Range | 100 to 25600 | | 100 to 12800 | |
| | Expanded ISO Speed Range | H2 (102400) | | H2 (102400) | |
| M | Normal ISO Speed Range | 100 to 25600 | 100 to 25600 1/3-stop increments | 100 to 12800 | 100 to 12800 1/3-stop increments |
| | Expanded ISO Speed Range | H2 (102400) | H2 (102400) | H2 (102400) | H2 (102400) |

- Auto setting of ISO speed
  - Even if ISO speed range is altered with [ISO speed settings], the setting is not effective for the normal ISO speed range.
  - [ISO speed settings] is effective to set the maximum ISO speed for the ISO expansion.
- Manual setting of ISO speed
  - Normal ISO speed range and Maximum ISO speed with the ISO expansion can be manually set within the range set with [ISO speed settings].
- Expanded ISO speeds: H1 (ISO 51200 equivalent), H2 (ISO 102400 equivalent). Note that L (ISO 50) cannot be set.
- The expanded ISO speeds are only "equivalent" ISO speeds.
- For HDR movie shooting, an expanded ISO speed cannot be set. The maximum will be ISO 25600.

| | |
|---|---|
| **Exposure Compensation** | ±3 stops in 1/3- or 1/2-stop increments |

## LCD Monitor

| | |
|---|---|
| **Type** | TFT color, liquid-crystal monitor |
| **Monitor Size** | 3.15-inch (screen aspect ratio of 3:2)<br>3.15 in./8.01cm diagonal (2.63 in./6.67cm width, 1.75 in./4.44cm height) |
| **Dots** | Approx. 2.10 million dots |
| **Coverage** | Approx. 100% vertically/horizontally |
| **Brightness Control** | Manually adjustable to one of seven brightness levels |
| **Coating** | Clear View LCD II<br>• Anti-smudge coating applied.<br>• Anti-reflection coating not applied. |
| **Interface Languages** | 29 (English, German, French, Dutch, Danish, Portuguese, Finnish, Italian, Ukraine, Norwegian, Swedish, Spanish, Greek, Russian, Polish, Czech, Hungarian, Vietnamese, Hindi, Romanian, Turkish, Arabic, Thai, Simplified/Traditional Chinese, Korean, Malay, Indonesian, Japanese) |

| | |
|---|---|
| **Playback** | |
| **Display Format** | (1) Single-image display<br>• No information display<br>• Basic information display<br>• Detailed shooting information display<br>○ Detailed information<br>○ Lens/Histogram information<br>○ White balance information<br>○ Picture Style information 1<br>○ Picture Style information 2<br>○ Color space/Noise reduction information<br>○ Lens aberration correction information 1<br>○ Lens aberration correction information 2<br>○ Record of sent images<br>○ GPS information<br>○ IPTC information<br>Display selection is available for Basic information display and Shooting information display.<br>(2) Index display<br>• 4-image index<br>• 9-image index<br>• 36-image index<br>• 100-image index |
| **Highlight Alert** | The white areas with no image data will blink. |
| **Histogram** | Brightness and RGB |
| **Quick Control Function** | |
| **Items** | The Quick Control screen is accessed by pressing the Quick Control button during still photo shooting. |
| **Image Protection and Erase** | |
| **Protection** | (1) Single image (select image)<br>(2) Select range<br>(3) All images in a folder<br>(4) All images on card<br>• Image browsing and image search can be based on ratings.<br>• Ratings-based image selections also possible with DPP.<br>(5) All found images (only during image search) |
| **Erase** | Except protected images<br>(1) Select images to erase<br>(2) Select range<br>(3) All images in folder<br>(4) All images on card<br>(5) All found images (only during image search) |
| **Direct Printing** | |
| **Compatible Printers** | Images can be sent via Wi-Fi® to a PictBridge-compatible (Wireless LAN) printer and printed. |
| **DPOF: Digital Print Order Format** | |
| **DPOF** | Compliant to DPOF Version 1.1 |
| **Wi-Fi®** | |
| **Standards Compliance** | IEEE 802.11b/g/n |
| **Transmission Method** | DS-SS modulation (IEEE 802.11b)<br>OFDM modulation (IEEE 802.11g/n) |
| **Transition Frequency (Central Frequency)** | Frequency: 2412 to 2462 MHz<br>Channels: 1 to 11 channels |

<table>
<tr><td>Connection Method</td><td>(1) Camera access point mode<br>(2) Infrastructure mode</td></tr>
<tr><td>Security</td><td>
<table>
<tr><td rowspan="2">Connection Method</td><td rowspan="2">Authentication</td><td colspan="2">Encryption</td></tr>
<tr><td>Encryption</td><td>Key Format and Length</td></tr>
<tr><td rowspan="2">Camera Access Point</td><td>WPA2-PSK</td><td>AES</td><td>• ASCII 8 characters</td></tr>
<tr><td>Open</td><td colspan="2">Disable</td></tr>
<tr><td rowspan="6">Infrastructure</td><td rowspan="3">Open</td><td rowspan="2">WEP</td><td>• Hexadecimal 10 digits<br>• Hexadecimal 26 digits<br>• ASCII 5 characters<br>• ASCII 13 characters</td></tr>
<tr><td colspan="2">Disable</td></tr>
<tr><td>Shared key</td><td>WEP</td><td>Same as WEP above</td></tr>
<tr><td>WPA-PSK</td><td>TKIP</td><td>• ASCII 13 characters</td></tr>
<tr><td>WPA2-PSK</td><td>AES</td><td>• ASCII 8–63 characters</td></tr>
</table>
</td></tr>
<tr><td>Communication with a Smartphone</td><td>Images can be viewed, controlled, and received using a smartphone.<br>Remote control of the camera using a smartphone is possible depending on the Camera Connect specifications.<br>Images can be sent to a smartphone.</td></tr>
<tr><td>Remote Operation Using EOS Utility</td><td>The camera can be controlled via Wi-Fi® using EOS Utility.</td></tr>
<tr><td>Print from Wi-Fi® Printers</td><td>Images can be sent to a Wi-Fi® printer compliant to PictBridge (wireless LAN).</td></tr>
<tr><td>Send Images to a Web Service</td><td>Still photos (JPEG) and movies (MP4) can be uploaded to a CiG (CANON iMAGE GATEWAY) album.<br>With the CiG service, images can be sent to social media or a photo album link can be sent (by the CiG specifications).<br>A link to a CiG album can be emailed.</td></tr>
<tr><td colspan="2">Bluetooth®</td></tr>
<tr><td>Standards Compliance</td><td>Bluetooth Specification Version 4.1 compliant (Bluetooth low energy technology)</td></tr>
<tr><td>Transmission Method</td><td>GFSK modulation</td></tr>
<tr><td colspan="2">Customization</td></tr>
<tr><td>Custom Functions</td><td>22 Custom Functions are settable.
<table>
<tr><th>Still Photo Shooting</th><th>Movie Shooting</th></tr>
<tr><td>Shutter button</td><td>Multi-function button</td></tr>
<tr><td>Movie button</td><td>LCD panel illumination button</td></tr>
<tr><td>Multi-function button</td><td>MODE button</td></tr>
<tr><td>LCD panel illumination button</td><td>AF-ON button</td></tr>
<tr><td>MODE button</td><td>AE lock button</td></tr>
<tr><td>AF-ON button</td><td>AF point selection button</td></tr>
<tr><td>AE lock button</td><td>Lens AF stop button</td></tr>
<tr><td>AF point selection button</td><td>Up key (cross keys)</td></tr>
<tr><td>Lens AF stop button</td><td>Left key</td></tr>
<tr><td>Up key (cross keys)</td><td>Right key</td></tr>
<tr><td>Left key</td><td>Down key</td></tr>
<tr><td>Right key</td><td>SET button</td></tr>
<tr><td>Down key</td><td></td></tr>
<tr><td>SET button</td><td></td></tr>
</table>
Customizable Dials
<table>
<tr><td>Main dial</td></tr>
<tr><td>Quick control dial</td></tr>
<tr><td>Control ring</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><td>Customizable M-Fn Bar</td><td>Types of actions: four types (left, right, slide, press completely)
<table>
<tr><th>Functions that Can be Assigned (Shooting)</th><th>Functions that Can be Assigned (Playback)</th></tr>
<tr><td>ISO speed</td><td>Function shortcut</td></tr>
<tr><td>White balance</td><td>Jump display</td></tr>
<tr><td>Check focus/Display info.</td><td></td></tr>
<tr><td>Movie shooting</td><td></td></tr>
<tr><td>Flexible-priority AE</td><td></td></tr>
<tr><td>AF</td><td></td></tr>
<tr><td>User customization</td><td></td></tr>
</table>
Safety lock: Enable / Disable</td></tr>
<tr><td>My Menu Registration</td><td>• Up to six top-tier menu items and Custom Functions can be registered.<br>• Up to five My Menu tabs can be added.
<table>
<tr><td>My Menu tab overall operations</td><td>• Adding a tab<br>• Deleting tabs in a batch<br>• Deleting all tab items<br>• Setting the menu display</td></tr>
<tr><td>My Menu tab detailed operations</td><td>• Selecting a registered item<br>• Sorting registered items<br>• Deleting selected registered items<br>• Deleting registered items in a batch<br>• Deleting tabs<br>• Changing a tab name (16 ASCII characters)</td></tr>
</table></td></tr>
<tr><td colspan="2">Interface</td></tr>
<tr><td>USB Terminal</td><td>Equivalent to SuperSpeed USB (USB 3.1 Gen 1)<br>• For PC communication<br>• For WFT-E7 (Ver. 2) connection<br>○ Shared with terminal for in-camera charging with the USB Power Adapter PD-E1.<br>○ In-camera charging: although it is compatible with USB Type-C (5V/1.5A) equivalent, do not charge the camera other than with the USB Power Adapter PD-E1.</td></tr>
<tr><td>Video Out Terminal</td><td>Type C (Resolution switches automatically) / CEC not compatible<br>• Images can be displayed through the HDMI output and on screen at the same time.<br>• Images will not be displayed unless [NTSC] or [PAL] is properly set according to the video system of the TV set.</td></tr>
<tr><td>Extension System Terminal</td><td>3.5mm diameter stereo mini jack</td></tr>
<tr><td colspan="2">Power Source</td></tr>
<tr><td>Battery</td><td>Battery Pack LP-E6N (or LP-E6) x 1<br>• With the AC Adapter + DC Coupler, AC power is possible.<br>• When the Battery Grip BG-E22 is used, two battery packs (LP-E6N or LP-E6) can be installed.<br>• With the USB Power Adapter PD-E1, in-camera charging of LP-E6N is possible but LP-E6 cannot be charged. The USB Power Adapter PD-E1 is not compatible with powering the camera.</td></tr>
</table>

**Number of Possible Shots (Approx. Shots)**

| Shooting Condition | Power Source | Shooting Method | Temperature | Possible Shots | |
|---|---|---|---|---|---|
| | | | | Smooth | Power Saving |
| EOS R Body only | LP-E6N 1 pc | Screen | Room Temperature (73°F / 23°C) | 370 | 450 |
| | | | Low Temperatures (32°F / 0°C) | 350 | 430 |
| | | Screen (Eco Mode: On) | Room Temperature (73°F / 23°C) | 540 | 560 |
| | | Finder (EVF) | Room Temperature (73°F / 23°C) | 350 | 430 |
| | | | Low Temperatures (32°F / 0°C) | 330 | 410 |
| EOS R + Battery Grip BG-E22 | LP-E6N 2 pc | Screen | Room Temperature (73°F / 23°C) | 740 | 900 |
| | | | Low Temperatures (32°F / 0°C) | 700 | 860 |
| | | Finder (EVF) | Room Temperature (73°F / 23°C) | 700 | 860 |
| | | | Low Temperatures (32°F / 0°C) | 660 | 820 |

- Based on CIPA testing standards.
- With LP-E6, possible shots, possible shooting time and playback time will be approx. 95% of the figures above.

**Battery Check**

Automatic battery check when the power switch is turned ON.
Displayed in 6 levels.
- Battery level can be checked on the LCD panel and in the viewfinder.
- One of six levels displayed for LP-E6N and LP-E6. The display for other power sources is different.

**Power Saving**

Power turns off after the set time of non-operation elapses.

Display off
Available time options: 15 sec. / 30 sec. / 1 min. / 3 min. / 5 min. / 10 min. / 30 min.

Auto power off
Available time options: 30 sec. / 1 min. / 3 min. / 5 min. / 10 min.

Disable
Viewfinder off
Available time options: 1 min. / 3 min. / Disable
- At least approx. 6 min. until auto power off while the [Date/Time/Zone] screen is displayed.

**Date/Time Battery**

Built-in secondary battery
When fully-charged, the date/time can be maintained for approx. 3 months
- Recharge time: approx. 8 hrs.
  - The recharge time required to provide the above number of months with no battery pack installed.

**Start-up Time**

Approx. 0.9 sec.
- Based on CIPA testing standards.

| Dimensions and Weight | |
|---|---|
| **Dimensions (W x H x D)** | Approx. 5.35 x 3.87 x 3.32 in. / 135.8 x 98.3 x 84.4mm<br>• Based on CIPA standards.<br>Approx. 5.35 x 3.87 x 2.67 in. / 135.8 x 98.3 x 67.7mm (from grip to monitor) |
| **Weight** | Approx. 1.46 lbs. / 660g (including battery, SD memory card; without body cap)<br>Approx. 1.28 lbs. / 580g (body only; without battery, card or body cap) |
| **Operating Environment** | |
| **Working Temperature Range** | 32–104°F / 0–40°C |
| **Working Humidity Range** | 85% or less |