



**EOS R**  
**SYSTEM**

**BE THE **RE**VOLUTION**





# REIMAGINE OPTICAL EXCELLENCE

Introducing the next evolution of EOS. It's a whole new system with a new, game-changing RF lens mount that delivers optical excellence today and incredible possibilities for future designs. The new full-frame mirrorless EOS R camera provides gorgeous results, with four RF lenses reimagining Canon optics and three optional Mount Adapters helping to ensure you can bring your EF and EF-S lenses along. Advanced features and compact designs, all in the brand-new EOS R system that's designed to take today's visual storytellers into tomorrow.

## EOS R SYSTEM

### 54mm Diameter Mount and Short Back Focus Distance

The large diameter and decreased distance between the rear lens element and sensor enable a compelling combination of image quality, performance and compact lens design. The new RF mount retains the same, large 54mm diameter as the current Canon EF mount, but thanks to the EOS R camera's mirrorless structure, the rear lens element can be much closer to the image plane. This combination opens up a number of possibilities. The rear element of RF lenses can be larger in diameter, improving image quality at the corners and outer edges of the frame. Larger rear elements mean front elements can be smaller, meaning less strong refracting and bending of light rays within the lens, enhancing optical performance. Most importantly, the EOS R system opens the door to the future. It unlocks more freedom and flexibility in lens designs, allowing faster lenses with increased optical performance in more compact forms than before.



### 20mm Flange Focal Distance

The RF mount is mounted just 20mm from the image sensor. This provides flexibility for future lens designs and the durability needed for professional, real-world operation, even when using super telephoto lenses.

### 12 pin Data Transmission

A 12 pin connection between the camera and lens means communication at a higher speed with larger amounts of data transfer, enabling incredibly fast AF, high IS and image optimization. It's a system designed to expedite operations that's ready for future expansions.



### Beyond Full Compatibility with EF/EF-S Lenses

Take full advantage of the EOS system by using any EF/EF-S lens with the EOS R camera by way of three optional mount adapters, including one featuring a customizable control ring and another allowing you to drop in a circular polarizing or variable ND filter.

## EOS R CAMERA

### 30.3 Megapixel Full-frame CMOS Sensor and DIGIC 8 Image Processor

The EOS R camera features a 35mm full-frame CMOS sensor with approx. 30.3 effective megapixels for stunning results with incredible detail and clarity, even in low-light situations. It's powered by the DIGIC 8 Image Processor, which enables an expansive ISO range, enhances Image Stabilization and turbocharges operations across the board for outstanding image quality and impressive performance.



### 5,655 Manually Selectable AF Points\*

The EOS R camera's Dual Pixel CMOS AF system features a maximum of 5,655 manually selectable AF points\* and can deliver fast and accurate focus within approximately 0.05\*\* seconds. Its focus area covers approx. 88% horizontal and 100% vertical\*\*\* when using RF lenses and select EF lenses, helping to ensure swift and accurate focus no matter where your subject is located in the frame.

### EV -6^ Low-light Autofocus

Operating in light as low as EV -6^, the EOS R camera's ultra-sensitive AF delivers amazing performance in remarkably dark areas.

### Pristine Video up to 4K 10-bit 4:2:2

The EOS R camera records 4K up to 30 fps, or Full HD 1080p up to 60 fps. Focus with Dual Pixel CMOS Autofocus, or for manual focus, use aids like Focus Peaking or the Dual Pixel Focus Guide. Connecting with HDMI to an external recorder, high-quality 4K with Canon Log and recording at 10-bit and up to 4:2:2 are all possible.

### Electronic Viewfinder with Approx. 3.69 Million Dots

The EOS R camera features a high-precision 0.5-inch OLED (Organic Light-Emitting Diode) EVF with approx. 3.69 million dots and a 23mm eyepoint, which helps to display a clear image and extensive shooting information.



### Dot-matrix LCD Panel

An LCD panel on the top of the EOS R camera features a dot-matrix display that shows information in real-time on the camera's status, recording mode and more.



### Vari-angle Touchscreen LCD

The EOS R camera has a flexible 3.15-inch Vari-angle LCD that makes it easy to compose and shoot from virtually any angle. Its touchscreen enables setting changes and more with just a tap.

### Multi-function Bar

Positioned for convenient operation, the EOS R camera's new multi-function bar recognizes swipes and taps to change settings, check focus and more.

### Fv Mode

With the EOS R camera's all-new Flexible-priority AE mode (Fv), you can easily set features such as shutter speed, aperture and ISO to respond automatically or manually for greater convenience and flexibility.

### Silent Shutter

Ideal for wildlife, journalism and quiet situations, the EOS R camera has a silent shutter feature that uses an inaudible electronic shutter.

## RF LENSES

### Control Ring

All RF lenses feature a control ring that lets you assign features and quickly change settings without having to use the main dial or quick control dial on the camera body.



### RF 28-70mm F2 L USM

**Consistent f/2 Brightness throughout Zoom Range**

The RF 28-70mm F2 L USM features a maximum aperture of f/2, offering unparalleled performance throughout its zoom range. With L series optics, it offers the flexibility and performance of a handful of fixed focal length lenses, delivering superlative performance from 28-70mm.



### RF 50mm F1.2 L USM

**Bright and Sharp f/1.2 Aperture**

The RF 50mm F1.2 L USM lens delivers gorgeous images in a large variety of situations. Designed specifically for the EOS R system, its f/1.2 aperture means amazing performance in low light and gorgeous, detailed images with evocative background blur.



### RF 24-105mm F4 L IS USM

**Smooth and Quiet NANO USM**

The RF 24-105mm F4 L IS USM is versatile with its broad zoom range and constant f/4 maximum aperture. It's the first L series lens to feature Canon's fast and speedy NANO USM, making it ideal for landscapes, portraits and much more.



### RF 35mm F1.8 Macro IS STM

**0.5x Magnification Ratio**

Compact, lightweight and easy to carry, the RF 35mm F1.8 Macro IS STM lens offers amazing versatility in a wide-angle macro lens. It has a 0.5x magnification ratio and a close focusing distance of 0.56 ft./0.71m for excellent macro photography.





## EOS R SYSTEM MOUNT ADAPTERS



### Mount Adapter EF-EOS R

Lightweight and compact, the Mount Adapter EF-EOS R connects EF and EF-S lenses to the EOS R camera, exponentially expanding the list of compatible lenses.



### Control Ring Mount Adapter EF-EOS R

The Control Ring Mount Adapter EF-EOS R allows use of EF and EF-S lenses, while adding a control ring similar to those found on RF lenses for customizable control with no compromise.



### Drop-in Filter Mount Adapter EF-EOS R

The Drop-in Filter Mount Adapter EF-EOS R enables compatibility with EF and EF-S lenses and includes drop-in filter capability for use with circular polarizing filters or variable ND filters.



### Battery Grip BG-E22

An optional accessory for the EOS R camera, the Battery Grip BG-E22 enables seamless vertical operation, helps maintain optimal lens balance and holds 2 LP-E6N battery packs to extend operation time.

## SPECIFICATIONS

### EOS R

|                           |                           |                                                                                                                                                                             |
|---------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor              |                           | 30.3MP Full-frame CMOS (36.0 x 24.0mm)                                                                                                                                      |
| Image Processor           |                           | DIGIC 8                                                                                                                                                                     |
| Lens Mount                |                           | Canon RF mount                                                                                                                                                              |
| Compatible Lenses         |                           | RF lenses (Compatible with EF & EF-S lenses when using optional Mount Adapter EF-EOS R)                                                                                     |
| Autofocus                 | Focus Control             | Phase-difference detection system with image sensor (Dual Pixel CMOS AF)                                                                                                    |
|                           | AF Area                   | Approx. 88% horizontal by 100% vertical (Area size varies according to compatible lens)                                                                                     |
|                           | Number of Focusing Points | Maximum 143 automatically selected<br>Maximum 5,655 manually selectable* (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)                                                                                                                     |
|                           | AF Method                 | Face + Tracking AF, 1-point AF ^^, Expand AF area (above, below, left and right),<br>Expand AF area (around), Zone AF, Large Zone AF (Vertical), Large Zone AF (Horizontal) |
| Maximum Frames Per Second |                           | High-speed continuous shooting: Approx. 8.0 fps,<br>With Servo AF: Approx. 5.0 fps (shooting speed priority)                                                                |
| Video Recording           | Video File Format         | MP4 (MPEG4 AVC/H.264 compression)                                                                                                                                           |
|                           | Video Audio Format        | ALL-I uses Linear PCM, IPB uses AAC through built-in stereo microphone or optional external microphone                                                                      |
|                           | Video Recording           | 4K 3840 x 2160: 29.97fps/24.00fps/23.98fps<br>Full HD 1920 x 1080: 59.94fps/29.97fps/24.00fps/23.98fps<br>HD 1280 x 720: 119.9fps/59.94fps/29.97fps                         |
| Canon Log                 | Dynamic Range             | Approx. 800%                                                                                                                                                                |
|                           | Canon Log Recording       | 4K/Full HD/HD YCbCr 4:2:0 BT.709 8-bit (Internal Memory)<br>4K/Full HD/HD YCbCr 4:2:2 BT.709 8-bit (HDMI Output)<br>4K YCbCr 4:2:2 BT.709/BT.2020 10-bit (HDMI Output)      |
| Exposure Control          | Metering Modes            | Real-time metering                                                                                                                                                          |
|                           | Metering Range            | EV -3 to 20 (at 73°F/23°C, ISO 100)                                                                                                                                         |
|                           | Shooting Mode             | Scene Intelligent Auto, Flexible-priority AE, Program AE, Shutter-priority AE, Aperture-priority AE, Manual Exposure, Bulb Exposure, Custom Shooting Modes                  |
|                           | ISO Speed                 | ISO 100 to 40000 (in 1/3-stop or whole-stop increments)                                                                                                                     |
|                           | ISO Expansion             | L: 50, H1: 51200, H2: 102400                                                                                                                                                |
|                           | Exposure Compensation     | +3-stops in 1/3- or 1/2-stop increments                                                                                                                                     |
| Recording Media           | AE Lock                   | Auto, Manual                                                                                                                                                                |
|                           |                           | SD/SDHC/SDXC Memory Cards                                                                                                                                                   |
| Shutter                   | Type                      | Electronically controlled focal-plane shutter (electronic first curtain, mechanical second curtain)                                                                         |
|                           | Shutter Speed             | 1/8000–30 sec., bulb.                                                                                                                                                       |
|                           | Maximum Syn. Speed        | X-sync at 1/200 sec.                                                                                                                                                        |
| Viewfinder                | Type                      | OLED Electronic Viewfinder                                                                                                                                                  |
|                           | Screen Size               | 0.5-inch (approx. 1.27cm diagonal)                                                                                                                                          |
|                           | Magnification             | Approx. 0.76 magnification (with 50mm lens at infinity, -1m <sup>-1</sup> )                                                                                                 |
|                           | Angle of View             | Approx. 35.2° angle of view                                                                                                                                                 |
|                           | Resolution                | Approx. 3.69 million dots                                                                                                                                                   |
| LCD Monitor               | Type                      | TFT Color Clear View II LCD Touch Screen                                                                                                                                    |
|                           | Screen Size               | 3.15-inch (approx. 3.15-inch diagonal)                                                                                                                                      |
|                           | Resolution                | Approx. 2.10 million dots                                                                                                                                                   |
| Wi-Fi* Connectivity       |                           | 802.11b/g/n Compatible                                                                                                                                                      |
| Bluetooth Connectivity    |                           | Bluetooth® Version 4.1 compliant                                                                                                                                            |
| Exterior                  | Dimension (W x H x D)     | Approx. 5.35 x 3.87 x 3.32 in. / 135.8 x 98.3 x 84.4mm<br>Approx. 5.35 x 3.87 x 2.67 in. / 135.8 x 98.3 x 67.7mm (from grip to monitor)                                     |
|                           | Weight (CIPA)             | 23.28 oz. / 660g (including battery pack and card)                                                                                                                          |

### RF 28–70mm F2 L USM

|                                 |                                   |
|---------------------------------|-----------------------------------|
| Lens Type                       | Canon RF Lens                     |
| Focal Length & Maximum Aperture | 28–70mm, f/2                      |
| Lens Construction               | 19 elements in 13 groups          |
| Diagonal Angle of View          | 75°00' - 34°00'                   |
| Focus Adjustment                | Ring USM                          |
| Minimum Focusing Distance       | 1.28 ft. / 0.39m                  |
| Aperture Blades                 | 9 blades                          |
| Filter Size                     | 95mm                              |
| Maximum Diameter & Length       | 4.09 x 5.50 in. / 103.8 x 139.8mm |
| Weight                          | Approx. 50.4 oz. / 1430g          |

### RF 50mm F1.2 L USM

|                                 |                                  |
|---------------------------------|----------------------------------|
| Lens Type                       | Canon RF Lens                    |
| Focal Length & Maximum Aperture | 50mm, f/1.2                      |
| Lens Construction               | 15 elements in 9 groups          |
| Diagonal Angle of View          | 46°00'                           |
| Focus Adjustment                | Ring USM                         |
| Minimum Focusing Distance       | 1.31 ft. / 0.4m                  |
| Aperture Blades                 | 10 blades                        |
| Filter Size                     | 77mm                             |
| Maximum Diameter & Length       | 3.54 x 4.25 in. / 89.8 x 108.0mm |
| Weight                          | Approx. 33.5 oz. / 950g          |

### RF 24–105mm F4 L IS USM

|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Lens Type                       | Canon RF Lens                                   |
| Focal Length & Maximum Aperture | 24–105mm, f/4                                   |
| Lens Construction               | 18 elements in 14 groups                        |
| Diagonal Angle of View          | 84°00' - 23°20'                                 |
| Focus Adjustment                | NANO USM                                        |
| Minimum Focusing Distance       | 1.48 ft. / 0.45m                                |
| Image Stabilization             | Provided (Up to 5 stops with compatible camera) |
| Aperture Blades                 | 9 blades                                        |
| Filter Size                     | 77mm                                            |
| Maximum Diameter & Length       | 3.29 x 4.22 in. / 83.5 x 107.3mm                |
| Weight                          | Approx. 24.7 oz. / 700g                         |

### RF 35mm F1.8 Macro IS STM

|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Lens Type                       | Canon RF Lens                                   |
| Focal Length & Maximum Aperture | 35mm, f/1.8                                     |
| Lens Construction               | 11 elements in 9 groups                         |
| Diagonal Angle of View          | 63°00'                                          |
| Focus Adjustment                | Gear-type STM                                   |
| Minimum Focusing Distance       | 0.56 ft. / 0.17m                                |
| Image Stabilization             | Provided (Up to 5 stops with compatible camera) |
| Aperture Blades                 | 9 blades                                        |
| Filter Size                     | 52mm                                            |
| Maximum Diameter & Length       | 2.93 x 2.47 in. / 74.4 x 62.8mm                 |
| Weight                          | Approx. 10.8 oz. / 305g                         |

\* Available AF points may decrease when shooting with AF cropping or in movie mode, or depending on camera settings or lens attached.

\*\* Based on the results of AF speed tests in accordance with CIPA guidelines. Results may vary depending on shooting conditions and lens in use. Relies on internal measurement method.

Test conditions:

- Brightness at time of distance measurement: EV12 (regular temperature, ISO 100) • Shooting mode: M
- Lens in use: RF 24–105mm F4 L IS USM, with a focal distance of 24mm • Live-view mode: On (with manual shutter button operation)
- AF mode: Live single-point AF (central) • AF operation: One-shot AF

\*\*\* When shooting still photos. Actual coverage varies depending on the lens in use.

^^ When using RF 50mm F1.2 L USM, with central AF point.

^^ [AF frame size] can be set to [Small].

Certain images and effects simulated. Products not shown to scale. All data is based on Canon's Standard Test Method. Specifications and availability are subject to change without notice. Weight and dimensions are approximate. Not responsible for typographical errors.

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