

EOS R

**CAPTURE THE
FUTURE**

A pioneering full-frame EOS R camera for professionals and advanced enthusiasts

Building on over 30 years of EOS innovation and design heritage, EOS R sets the standard for the camera of tomorrow with a pioneering lens mount, offering responsive, high-speed auto-focus in as little as 0.05 seconds*.



- Greater creativity thanks to pioneering technology
- Capture more detail in photographs and video
- Use your EF and EF-S lenses via an adapter plus innovative RF optics
- Refined, responsive handling and ergonomics
- Connect and share images and movies with ease
- Shoot professional 4K video for breath-taking films

**Measured using CIPA-compliant guidelines, and internal measurement method with the lens RF24-105mm f/4 L IS USM mounted with one-shot AF in use.*

Canon

Live for the story_

TECHNICAL SPECIFICATIONS

EOS R

CAPTURE THE FUTURE

IMAGE SENSOR

Type	36 x 24 mm CMOS
Effective Pixels	Approx. 30.3 megapixels
Total Pixels	Approx. 31.7 megapixels
Aspect Ratio	3:2
Low-Pass Filter	Built-in/Fixed
Sensor Cleaning	EOS integrated cleaning system
Colour Filter Type	Primary Colour

IMAGE PROCESSOR

Type	DIGIC 8
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LENS

Lens Mount	RF (EF and EF-S lenses can be attached using Mount Adapter EF-EOS R, Control Ring Mount Adapter EF-EOS R, Drop-In Filter Mount Adapter EF-EOS R. EF-M lenses not compatible)
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Focal Length	Equivalent to 1.0x the focal length of the lens with RF and EF lenses 1.6x with EF-S
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FOCUSING

Type	Phase-difference detection system with image sensor (Dual Pixel CMOS AF)
AF Zones	With Area 88% horizontal and 100% vertical
AF working range	EV -6 to 18 (23 °C, ISO 100)
AF Modes	One-Shot AF, Servo AF
AF Point Selection	Automatic selection: Face + tracking, 143 Available AF areas when automatically selected Manual selection: 1-point AF (AF frame size can be changed) 5655 AF positions available Manual selection: AF point Expansion 4 points (up, down, left, right) Manual selection: AF point Expansion surrounding Manual selection: Zone AF (all AF points divided into 9 focusing zones) Manual selection: Large Zone AF (Vertical) Manual selection: Large Zone AF (Horizontal)

AF Lock	Locked when shutter button is pressed halfway or AF ON is pressed in One Shot AF mode. Using customised button set to AF stop in AI servo
AF Assist Beam	Emitted by built in LED or optional dedicated Speedlite (flash)
Manual Focus	Selected on lens

EXPOSURE CONTROL

Metering modes	Real-time with image sensor, 384-zone metering. (1) Evaluative metering (linked to All AF points) (2) Partial metering (approx. 6.1% of viewfinder at centre) (3) Spot metering: Centre spot metering (approx. 2.7% viewfinder at centre) AF point-linked spot metering not provided (4) Centre weighted average metering
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Metering Brightness Range	EV -3 to 20 (at 23 °C, ISO 100, with evaluative metering)
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AE Lock	Auto: AE lock takes effect when focus is achieved Manual: By AE lock button in P, Av, Fv, Tv and M modes
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Exposure Compensation	+/-3 EV in 1/3 or 1/2 stop increments (can be combined with AEB)
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AEB	+/-3 EV in 1/3 or 1/2 stop increments
Anti-flicker shooting	Yes. Flicker detected at a frequency of 100 Hz or 120 Hz. Maximum continuous shooting speed may decrease

ISO Sensitivity (8)	Auto 100-40000 (in 1/3-stop or whole stop increments) ISO can be expanded to L:50, H1: 51200, H2: 102400
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SHUTTER

Type	Electronically controlled focal-plane shutter
Speed	30-1/8000 sec (1/2 or 1/3 stop increments), Bulb (Total shutter speed range. Available range varies by shooting mode)
Shutter Release	Soft touch electromagnetic release

WHITE BALANCE

Type	
Settings	

Custom White Balance

WB Bracketing

VIEWFINDER

Type	0.5-type OLED colour Electronic Viewfinder
Dot Count	3.69 Million dots (1280 x 960)
Coverage (Vertical/Horizontal)	Approx. 100%
Magnification	Approx. 0.76x (4)
Dot Count	3.69 Million dots (1280 x 960)
Eyepoint	Approx. 23mm (from eyepiece lens centre)
Dioptre Correction	-4 to +2 m ⁻¹ (diopetre)
Viewfinder Information	AF point information, Exposure level indicator, Number of remaining multiple exposures, Exposure compensation, HDR shooting, Highlight tone priority, Multiple-exposure shooting, ISO speed, Dual Pixel RAW shooting, Possible shots, Multi Shot Noise Reduction, Number of self-timer shooting, Digital Lens Optimizer, Maximum burst, AF method, Battery level, AF operation, Exposure simulation, Drive mode, AEB, Metering mode, FEB, Anti-flicker shooting, Still photo cropping, Shooting mode, Aspect ratio, Scene icons Auto Lighting Optimizer, AE lock Picture Style, Flash-ready, White balance, Flash off White balance correction, FE lock, Image Quality, High-speed sync, Bluetooth function, Shutter speed, Wi-Fi function, Multi-function lock warning, Histogram, Aperture Electronic level, Lens information

Depth of field preview

LCD MONITOR

Type	8.01 cm (3.15") Clear View LCD II, approx. 2.1 million dots. Vari-Angle
Coverage	Approx. 100%
Viewing Angle (horizontally/vertically)	Approx. 170° vertically and horizontally
Coating	Anti-reflection and Anti-smudge. Reinforced glass incorporated

Brightness Adjustment

Touch-screen operations

Display Options

FLASH

Modes	E-TTL II Auto Flash, Metered Manual
X-sync	1/200sec
Flash Exposure Compensation	+/- 3 EV in 1/3 increments with EX series Speedlite flashes
Flash Exposure Bracketing	Yes, with compatible External Flash
Flash Exposure Lock	Yes
Second Curtain Synchronisation	Yes, via Speedlite
Hot Shoe / PC terminal	Yes / No
External Flash Compatibility	E-TTL II with EX series Speedlite, wireless multi-flash support

External Flash Control

Auto white balance with the imaging sensor

AWB (Ambience priority/White priority), Daylight, Shade, Cloudy, Tungsten light, White Fluorescent light, Flash, Custom, Colour Temperature Setting

White balance compensation:

1. Blue/Amber +/-9

2. Magenta/ Green +/-9

Yes, 1 setting can be registered

+/-3 levels in single level increments

3, 2, 5 or 7 bracketed images per shutter release

Selectable Blue/Amber bias or Magenta/Green bias

0.5-type OLED colour Electronic Viewfinder

3.69 Million dots (1280 x 960)

Approx. 100%

Approx. 0.76x (4)

3.69 Million dots (1280 x 960)

Approx. 23mm (from eyepiece lens centre)

-4 to +2 m⁻¹ (diopetre)

AF point information, Exposure level indicator, Number of remaining multiple exposures, Exposure compensation, HDR shooting, Highlight tone priority, Multiple-exposure shooting, ISO speed, Dual Pixel RAW shooting, Possible shots, Multi Shot Noise Reduction, Number of self-timer shooting, Digital Lens Optimizer, Maximum burst, AF method, Battery level, AF operation, Exposure simulation, Drive mode, AEB, Metering mode, FEB, Anti-flicker shooting, Still photo cropping, Shooting mode, Aspect ratio, Scene icons Auto Lighting Optimizer, AE lock Picture Style, Flash-ready, White balance, Flash off White balance correction, FE lock, Image Quality, High-speed sync, Bluetooth function, Shutter speed, Wi-Fi function, Multi-function lock warning, Histogram, Aperture Electronic level, Lens information

Yes, via customised button

8.01 cm (3.15") Clear View LCD II, approx. 2.1 million dots. Vari-Angle

Approx. 100%

Approx. 170° vertically and horizontally

Anti-reflection and Anti-smudge. Reinforced glass incorporated

Manual: Adjustable to one of seven levels
Colour Tone Adjustment: 4 settings

Capacitive method with menu functions, Quick Control settings, playback operations, and magnified display. AF point selection in still and Movies, touch shutter is possible in still photo shooting

(1) Basic Camera settings

(2) Advance Camera settings

(3) Camera settings plus histogram and dual level display

(4) No info

(5) Quick Control Screen

E-TTL II Auto Flash, Metered Manual

1/200sec

+/- 3 EV in 1/3 increments with EX series Speedlite flashes

Yes, with compatible External Flash

Yes

Yes, via Speedlite

Yes / No

E-TTL II with EX series Speedlite, wireless multi-flash support

Via camera menu screen



TECHNICAL SPECIFICATIONS

EOS R

CAPTURE THE FUTURE

SHOOTING

Modes

Stills: Scene Intelligent Auto, Flexible priority AE, Program AE, Shutter priority AE, Aperture priority AE, Manual, Bulb and Custom (x3)
Movie: Scene Intelligent Auto, Program AE, Shutter priority AE, Aperture priority AE, Manual, Bulb and Custom (x3)

Picture Styles

Auto, Standard, Portrait, Landscape, Fine Detail, Neutral, Faithful, Monochrome, User Defined (x3)

Colour Space

sRGB and Adobe RGB

Image Processing

Highlight Tone Priority
Auto Lighting Optimizer (4 settings)
Long exposure noise reduction
High ISO speed noise reduction (4 settings) (still and video)
Lens optical correction (3):
- Peripheral illumination correction, Chromatic aberration correction Distortion correction (during/after still photo shooting, during video only)
- Diffraction correction, Digital Lens Optimizer (during/after still photo shooting)
Resize to M, S1, S2 (6)
Cropping: JPEG images can be cropped (Aspect ratios 3:2, 4:3, 16:9, 1:1)
- 45 cropping sizes selectable, from 11% to 95% (diagonal)
- Switch between vertical and horizontal cropping orientation
- Image straightening
- Cropping frame can be moved using touch screen operation
RAW image processing (7)
Multiple exposure
HDR

Drive modes

Single, Continuous High, Continuous Low, Silent Single, Self timer (2s+remote, 10s+remote)

Continuous Shooting

Max. Approx. 8fps. speed maintained for 100 JPEG or 47 RAW images (1) (2) (10)
Max. 5fps with AF Tracking

Interval timer

Not supported

LIVE VIEW MODE

Type

Electronic viewfinder with image sensor

Coverage

Approx. 100% (horizontally and vertically)

Frame Rate

59.97 fps (smooth) / 29.97 fps (power saving)

Focusing

Manual Focus (Magnify the image 5x or 10x at any point on screen)
Autofocus: Dual Pixel CMOS AF (Face Detection and Tracking AF, 1point AF, Expand AF Area Zone AF, and Touch shutter

Metering

Real-time evaluative metering with image sensor (384-zone)
Partial metering (approx. 6.1% of the centre of the screen)
Spot metering (approx. 2.7% of the centre of the screen)
Centre-weighted average metering
Active metering timer can be changed

Display Options

3 levels available Basic shooting information, Advanced shooting information and Advanced shooting information with Histogram

FILE TYPE

Still Image Type

JPEG: 2 compression options
RAW: RAW, C-Raw and Dual Pixel RAW (14-bit, Canon original RAW 3rd edition)
Complies with Exif 2.31 and Design rule for Camera File system 2.0
Complies with Digital Print Order Format [DPOF] Version 1.1

RAW+JPEG simultaneous recording

Yes, any combination of RAW + JPEG possible, including Dual Pixel RAW + JPEG

Image Size

JPEG:

3:2 ratio (L, RAW, C-Raw) 6720x4480, (M1) 4464x2976, (S1) 3360x2240, (S2) 1696x1280
1.6x (crop) (L) 4176x2784, (S2) 2400x1600
4:3 ratio (L) 5952x4480, (M1) 3968x2976, (S1) 2976x2240, (S2) 2112x1600
16:9 ratio (L) 6720x3776, (M1) 4464x2512, (S1) 3360x1888, (S2) 2400x1344
1:1 ratio (L) 4480x4480, (M1) 2976x2976, (S1) 2240x2240, (S2) 1600x1600

EOS Movie

Movie Type

MOV Video: 4K (16:9) 3840 x 2160, Full HD, HD
MPEG4 AVC/H.264 variable (average) bit rate,
Audio: Linear PCM

Movie Size

4K (16:9) 3840 x 2160 (29.97, 25, 24, 23.98 fps) intra or inter frame (13)
Full HD (16:9) 1920 x 1080 (59.94, 50, 29.97, 25, 23.98 fps) intra or inter frame (13)
Full HD (16:9) 1920 x 1080 HDR (29.97, 25 fps) inter frame (13)
Full HD (16:9) 1920 x 1080 (29.97, 25) light inter frame HD (16:9) 1280 x 720 (119.9, 100 fps) intra frame

Colour Sampling (Internal recording)

Canon Log

Movie Length

4K - YCbCr4:2:2 (8-bit)
Full HD/HD - YCbCr4:2:0 (8-bit)
Yes, Log 1
4K and Full HD - Max duration 29min 59sec. (excluding High Frame Rate movies). No 4GB file limit with exFAT CF card.

High Frame Rate Movie

MOV Video: HD - 1280 x 720 at 100fps or 119.9fps
Recorded as 1/4-speed slow motion movie
Single scene maximum recording up to 7min 29sec.
8.3-megapixel JPEG still image frame grab from 4K movie possible

4K Frame Grab

Bitrate/Mbps

MOV:
4K (29.97p/25.00p/24.00p/23.98p): ALL-I Approx. 480 Mbps
4K (29.97p/25.00p/24.00p/23.98p): IPB Approx. 120 Mbps
Full HD (59.94p/50.00p)/ALL-I: Approx. 180 Mbps
Full HD (59.94p/50.00p)/IPB Approx. 60 Mbps
Full HD (29.97p/25.00p/24.00p/23.98p)/ALL-I: Approx. 90 Mbps
Full HD (29.97p/25.00p/24.00p/23.98p)/IPB: Approx. 30 Mbps
HD (119.9p/100.0p)/ALL-I: Approx. 160 Mbps
MP4:
Full HD (29.97p/25.00p)/IPB (Light): Approx. 12 Mbps

Microphone

Built-in stereo microphones (48 Khz, 16-bit x 2 channels)

HDMI Display

External Monitor only, External Monitor only without information display or Simultaneous on camera and external monitor

HDMI Output

4K (UHD) recording only, uncompressed YCbCr 4:2:2, 8-bit or 10-bit, sound output via HDMI is also possible

Focusing

Dual Pixel CMOS AF with Face Detection and Tracking AF, Movie Servo AF
Manual Focus

ISO

4K - Auto: 100-12800, H: 25600, H1: 32000, H1: 51200, H2: 102400,
Full HD/HD - Auto: 100-25600, H: 32000, H1: 51200, H2: 102400

OTHER FEATURES

Custom Functions

22 Custom Functions

Metadata Tag

User copyright information (can be set in camera)
Image rating (0-5 stars)
IPTC data (registered with EOS Utility)
Image transfer with caption (Caption registered with EOS Utility)

LCD Panel / Illumination

Yes / Yes



TECHNICAL SPECIFICATIONS

EOS R

CAPTURE THE FUTURE

Water/Dust resistance	Yes	SOFTWARE	
Voice Memo	No	Image Processing	Digital Photo Professional 4.9 or later (RAW Image Processing)
Intelligent Orientation Sensor	Yes	Other	EOS Utility 3.9 or later (incl. Remote Capture), Picture Style Editor, Map Utility, EOS Lens Registration Tool, EOS Web Service Registration Tool, Canon Camera connect app (iOS/Android)
Playback zoom	1.5x - 10x in 15 steps		
Display Formats	(1) Single image (2) Single image with information (2 levels) Basic - Shooting information (shutter speed, aperture, ISO and Image quality) Detailed - Shooting information (shutter speed, aperture, ISO, metering Image, quality and file size), Lens information, Brightness and RGB histogram, White balance, Picture Style, Color space and noise reduction, Lens optical correction, GPS information, IPTC information (3) 4 image index (4) 9 image index (5) 36 image index (6) 100 image index (7) Jump Display (1, 10 or 100 images, Date, Folder, Movies, Stills, Protected images, Rating) (8) Movie edit (9) RAW processing (10) Rating	POWER SOURCE	
Slide Show	Image selection: All images, by Date, by Folder, Movies, Stills, Protected images or Rating Playback time: 1/2/3/5/10 or 20 seconds Repeat: On/Off	Batteries	Rechargeable Li-ion Battery LP-E6N (supplied)/LP-E6
Histogram	Brightness: Yes RGB: Yes	Battery life	Approx. 370 shots (at 23°C) (5) Approx. 350 (at 0°C) 6 levels + percentage
Highlight Alert	Yes	Battery Indicator	Power turns off after 30 seconds, 1, 3, 5, 10 or 30 mins
Image Erase	Single image, select range, Selected images, Folder, Card	Power saving	Battery charger LC-E6E (supplied), AC Adapter AC-E6N and DC Coupler DR-E6, AC Adapter Kit ACK-E6N/ACK-E6, Car Battery Charger CBC-E6, USB power adapter PD-E1
Image Erase Protection	Erase protection of Single image, Folder or Card all found images (only during image search)	Power Supply & Battery Chargers	
Self Timer	2 or 10 sec.		
Menu Categories	(1) Shooting menu (2) AF Menu (3) Playback menu (4) Setup menu (5) Custom Functions menu (6) My Menu	PHYSICAL SPECIFICATIONS	
Menu Languages	29 Languages English, German, French, Dutch, Danish, Portuguese, Finnish, Italian, Norwegian, Swedish, Spanish, Greek, Russian, Polish, Czech, Hungarian, Vietnamese, Hindi, Romanian, Ukrainian, Turkish, Arabic, Thai, Simplified Chinese, Traditional Chinese, Korean, Malay, Indonesia and Japanese	Body Materials	Magnesium Alloy body and polycarbonate with glass fibre parts
Firmware Update	Update possible by the user (Camera, Lens, WFT, External Speedlite, BLE remote control, Lens adapter)	Operating Environment	0 – 40 °C, 85% or less humidity
INTERFACE		Dimensions (WxHxD)	135.8 x 98.3 x 84.4mm
Computer	SuperSpeed USB 3.1 USB C connector	Weight (body only)	Approx. 580 g (660 g with card and battery)
Wi-Fi	Wireless LAN (IEEE802.11b/g/n) (2.4 GHz only), with Bluetooth support [12] Features supported - EOS Utility, Smartphone, Upload to Web, Wireless printing	ACCESSORIES	
Other	HDMI mini out (Type C, HDMI-CEC compatible), External Microphone In/Line In (Stereo mini jack), Headphone socket (Stereo mini jack), E3-type terminal (remote control terminal)	Wireless File Transmitter	Wireless File Transmitter WFT-E7B
DIRECT PRINT		Lenses	All RF lenses (EF & EF-S via Lens adapters)
PictBridge	Yes (via wireless LAN only)	Lens adapters	Mount Adapter EF-EOS R, Control Ring Mount Adapter EF-EOS R, Drop-In Filter Mount Adapter EF-EOS R
STORAGE		Flashes	Canon Speedlite (EL-100, 90EX, 220EX, 270EX, 270EX II, 320EX, 380EX, 420EX, 430EX, 430EX II, 430EX III 470EX-AI, 550EX, 580EX, 580EX II, 600EX, 600EX-RT, 600EX-II-RT, Macro-Ring-Lite MR-14EX, Macro Ring Lite MR-14EX II, Macro Twin Lite MT-24EX, Macro Twin Lite MT-26EX Speedlite Transmitter ST-E2, Speedlite Transmitter ST-E3-RT)
Type	1x SD/SDHC/SDXC and UHS-II	Remote Controller/Switch	Remote control with E3 type socket and Speedlite 600EX-II-RT, Wireless Remote Control BR-E1
SUPPORTED OPERATING SYSTEMS		Other	Battery grip BG-E22, GP-E2 GPS receiver
PC & Macintosh	Windows 7 (excl. Starter Edition) Windows 8.1 and Windows 10 (tablet mode not supported) OS X v10.11, 10.12, 10.13 and 10.14		

All data is based on Canon standard testing methods except where indicated.

Subject to change without notice.

1 Large/Fine resolution

2 Based on Canon's testing conditions, JPEG, ISO 100, Standard Picture Style. Maximum fps and buffer capacity may be reduced depending on the camera's settings, light level, subject, memory card brand and capacity, image recording quality, ISO speed, drive mode, Picture Style, Custom functions etc.

4 with 50mm lens at infinity, -1m-1 dpt

5 Based on the CIPA Standard and using the battery supplied with the camera, except where indicated

6 Frame grab images from 4K movies and images shot in S2 quality cannot be resized

7 RAW image processing during image Playback only with RAW and Dual Pixel RAW only

8 Recommended Exposure Index

10 Figures quoted are when used with USH-II SD memory card

11 The AF area available vary depending on the lens used

12 Wi-Fi use may be restricted in certain countries or regions

Live for the story_