

EOS R1

TECHNICAL SPECIFICATIONS



Canon

EOS R1

Ahead of the game



FLAGSHIP EOS R SERIES CAMERA

The EOS R1 is a full frame mirrorless camera bringing together Canon's cutting-edge technology, top-class performance, durability and reliability in our flagship model. Designed for professionals, this camera will help you stay ahead of the game whether it be for sports, news reporting, video production and more.



LIGHTENING FAST READOUT SPEEDS

A new 24MP full frame back-illuminated stacked CMOS sensor delivers faster readout speeds for reduced rolling shutter distortion, equivalent to the mechanical shutter of EOS-1D X Mark III.



NEXT GENERATION AUTOFOCUS

Track moving subjects with precision and ease like never before. Deep learning algorithms are applied for a range of subjects and Register People Priority mode allows you to register and prioritise people to ensure your primary subject is the focus of attention.



SUPERCHARGED AF ACCURACY

Cross-type AF is included for the first time on an EOS R series body accurately captures subject patterns to further increase accuracy especially in situations where subjects have many horizontal lines, small sizes or when the subject is low contrast.



MORE RESOLUTION ON HAND WHEN NEEDED

In-camera upscaling after shooting from JPEG or HEIF files delivers images up to 96MP. This can be combined with in-camera cropping to deliver higher resolution cropped images and with in-camera Neural Network Noise Reduction for images with less noise.

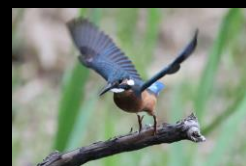


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EOS R1 | FEATURES

CAPTURE WHAT MAY HAVE BEEN MISSED

Capture the decisive moment in sharp focus even before you've pressed the button with pre-continuous shooting of still or video.



EYE CONTROL AF

Sensors in the electronic viewfinder track the movement of the photographers' eye which enables the user to quickly change tracking to a different subject



EXPLOSIVE CONTINUOUS SHOOTING SPEEDS

Shoot continuous RAW bursts at up to 40 frames per second with AF/AE tracking between each frame



CANON LOG 2 & CANON LOG 3

Canon Log 2 & Canon Log 3 are included to ensure a wide dynamic range. Canon Log 2 enables shooting with dynamic range of up to 16 stops



4K 120p RECORDING

Supports up to Full HD 240P and 4K 120P recording. This lets users capture scenes with fast movement, such as sports and concerts.



RF LENSES FOR GREATER POSSIBILITIES

RF lenses enable richly expressive, high-quality imaging. The high-speed communication capabilities of the RF mount makes operation intuitive and stress-free



NEURAL NETWORK NOISE REDUCTION

Applies deep learning to generate images with reduced noise when processing RAW images in camera, without the need for external computer or software. This can be combined with in-camera image upscaling to produce an image with less noise and higher resolution.



IN-BODY IMAGE STABILISATION

Co-ordinated Control Image Stabilization is now improved to 8.5 stops at centre and 7.5 stops at peripheral*1*2



*1: Based on the CIPA 2024 standard. Yaw/Pitch/Roll image stabilization performance, when using RF24-105mm F2.8 L IS USM Z (f=105mm)

*2: For supported lenses, please see "Supplemental Information" for EOS R1 on the website "cam.start.canon "

EOS R1				
Type	Lens mount		RF mount	
	Image processor		DIGIC Accelerator, DIGIC X	
	Compatible lenses		RF/RF-S lenses (EF/EF-S lenses with EF-EOS R)	
Image sensor	Screen size		Full frame	
	Effective pixels (max. approx. megapixels)		Approx 24.2MP	
	Back-illuminated stacked		Yes	
Recording media	Card slot	Dual slots	Card 1 Card 2	
	Record function + card/folder selection	Card 1: Main, Card 2: Proxy		
			CFexpress	
Still photo recording	Image quality	JPEG/HEIF	Yes / Yes	
		RAW/C-RAW	Yes / Yes	
		Dual Pixel RAW	—	
	JPEG/HEIF image quality		10 levels for each image size	
	Max. burst for continuous shooting (approx.)*1	Mechanical shutter / electronic 1st-curtain	JPEG Large*2	1000 or more
		Electronic shutter	JPEG Large*2	1000 or more
		RAW	1000 or more	
Movie recording	Format		XF-HEVC S / XF-AVC S	
	Recording format*3	RAW	Yes	
		HEVC	YCC422 10 bit / YCC420 10 bit	
		AVC	YCC422 10 bit / YCC420 8 bit	
	Movie recording size*3	Resolution	RAW / SRAW / 4K-D / 4K-U / 2K-D / Full HD	
		Frame rate (fps)	236.76 / 200.00 / 119.88 / 100.00 / 59.94 / 50.00 / 29.97 / 25.00 / 24.00 / 23.98	
		RAW format	Standard RAW / Light RAW	
		Compression method	High Quality Intra / Standard Intra / Light Intra / Standard LGOP / Light LGOP	
	Image quality		Fine / Normal	
	High Frame Rate movies		Yes	
	Movie cropping		Yes	
	HDR movies		No	
	Time-lapse movies		No	
	Custom Picture		Yes	
	Audio format		LPCM / 24bit / 4CH; AAC / 16bit / 2CH	
	Built-in microphone		Monaural	
	Pre-recording		Yes	
Tally lamp		Yes		
Max. recording time per recording	Normal movies	6 hr. (59.94 fps or less)		
HDMI RAW output		Yes		
Dual shooting (still & movie)		Yes		
Image creation/processing	Picture Style		Yes	
	Clarity		Yes	
	Auto Lighting Optimizer		Yes	
	Highlight tone priority		Yes	
	Long exposure noise reduction		Yes	
	High ISO speed noise reduction		Yes	
	Lens aberration correction (still photos/movies)		Yes	
	Focus breathing correction (movies)		Yes	

*1: When using a 325 GB CFexpress card conforming to Canon testing standards.

* 2: JPEG Image quality 8

EOS R1				
AF	Focusing brightness range (with an f/1.2 lens,* center AF point, One-Shot AF, at room temperature, and ISO 100) * Except RF lenses with a Defocus Smoothing (DS) coating		Still photos	EV -7.5 to 21
			4K 30p	EV -5.5 to 21 (with 29.97 / 25.00 fps)
			Full HD 30p	EV -5 to 21 (with 29.97 / 25.00 fps)
	AF operation	One-Shot AF		Yes
		AI Focus AF		Yes
		Servo AF / Movie Servo AF		Yes / Yes
	No. of AF area zones available for automatic selection (max. zones)			1053
	AF area (AF method)	Face + Tracking		–
		Spot AF / 1-point AF		Yes
		Expand AF area		Yes
		Zone AF / Large Zone AF		–
		Flexible Zone AF		Yes
		Whole area AF		Yes
		Whole area tracking Off		Yes
	Cross Type AF			Yes
	Servo AF characteristics (still photos)			Case Auto / Manual
	Subject to detect	Auto		Yes
		People / Animals / Vehicles		Yes
	Eye detection	Auto		Yes
		Right eye / Left eye		Yes
Register people priority			Yes	
Action priority			Yes	
Eye Control AF	Line-of-sight detection sensor (approx. pixels)		307,000	
Viewfinder	Type		Electronic viewfinder	
	Screen size		0.64 inch	
	Dot count (approx. dots)		9,440,000	
	Magnification (approx. ×) (lens at infinity, -1 dpt)		0.9x	
	Coverage (approx. %)		100	
	Eyepoint (approx. mm) (at -1 m ⁻¹ from eyepiece lens end)		24mm	
	Dioptic adjustment (approx. dpt)		-4.0 to +2.0	
Viewfinder brightness			7 levels	
Screen	Screen size		3.2 inch	
	Dot count (approx. dots)		2,100,000	
	Screen brightness		7 levels	
	Vari-angle		Yes	
Display settings	Display simulation		Yes	
	Optical viewfinder simulation (View assist)		Yes	
	Waveform monitor setting (movies)		No	
HDMI output	HDMI resolution		Auto / 1080p / 1080i	
Shooting mode	Still photo shooting		Fv / P / Av / M / Tv / BULB / C1 / C2 / C3	
	Movie recording		P / Av / M / Tv / C1 / C2 / C3	
Exposure control	No. of metering sensor zones (still photos)		6144 zones (96×64)	
	Metering brightness range (at room temperature, ISO 100)	Still photos	EV -3 to 20	
		Movies	EV -1 to 20	
	Anti-flicker shooting		Yes	
	High-frequency anti-flicker shooting		Yes	
	False color (movies)		Yes	
	ISO speed (still photos)	Normal speed	100 to 102400	
		Expanded speed (max. ISO equivalent)	L: 50, H1: 204800, H2: 409600	
	ISO speed (movies)	Normal speed	100 to 32000	
Expanded speed (max. ISO equivalent)		H: 40000, 51200, 640000, 80000 or 102400, H1: 204800		

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Shutter	Shutter speed (sec.) (still photos)	Mechanical shutter / electronic 1st-curtain	Lowest Speed: 1/4000-30sec Highest Speed: 1/8000-15sec
		Electronic shutter	Lowest Speed: 1/32000-30sec Highest Speed: 1/64000-15sec
	Max. shutter speed (sec.) (movies)	Electronic shutter	1/8000
	Flash sync speed (sec.)	Mechanical shutter	1/200
		Electronic 1st-curtain	1/250
		Electronic shutter	1/400 (Sync speed priority)
		Sync speed priority	Yes
		Durability (with mechanical shutter)	500,000 cycles
	Silent shutter function	Yes	
Other shooting modes	Multiple-exposure shooting		Yes
	Saving multiple-exposure image		JPEG Large
	HDR shooting PQ (Still photos / movies)		Yes / Yes
	Focus bracketing		Yes
	Camera in-body IS		Yes
Image stabilisation function	Coordinated control		Yes
	IS effectiveness, in number of stops (still photos)		Center: 8.5 stops, Periphery: 7.5 stops * Yaw, pitch, and roll correction performance, as based on CIPA2024 standards * RF24-105mm F2.8 L IS USM Z (coordinated control), f=105 mm
	Movie digital IS		Yes
	Peripheral coordinated control		Yes
	Continuous Shooting	Continuous shooting speed (high-speed continuous shooting +, max. approx. shots/sec.)	Mechanical shutter
Electronic 1st-curtain			12
Electronic shutter			40
Pre-continuous shooting		Yes	
Blackout-free display		Yes	
Playback	Blur / out-of-focus image detection		Yes
	VR preview		No
Image processing after shooting	RAW image processing		Yes
	Neural network Noise Reduction		Yes
	Dual Pixel RAW processing		-
	In-camera upscaling		Yes
Customized controls	Customize buttons for shooting/playback		Yes / Yes
	Customize dials/control ring		Yes
External interface	Digital terminal		USB Type-C
	HDMI output terminal		Type A
	External microphone input terminal		Yes
	Headphone terminal		Yes
	Multi-function shoe		Yes
Power source	Battery		LP-E19
	USB power source support	Charging / camera power supply	Yes / Yes
	AC power source		AC-E19 + DR-E19
	Available shots*3 (with power saving, approx. shots at +23°C / 73°F)	Viewfinder	700
		Screen	1330
Dimensions and weight	Dimensions (approx. width × height × depth)*3		157.6×149.5×87.3 mm
	Weight (approx. including battery and CFexpress card)*3		1115g
VR	Support for RF5.2mm F2.8 L DUAL FISHEYE		No
Communication functions	Wi-Fi (wireless LAN)	Wi-Fi	Equivalent to IEEE 802.11b/g/n/a/ac/ax
		MIMO	Yes
		Transmission frequency (Center frequency)	2.4 GHz / 5 GHz / 6 GHz
	Bluetooth		Bluetooth Specification Version 5.3
	Wired LAN (Ethernet)		IEEE 802.3u IEEE 802.3ab (for 1000BASE-T) IEEE 802.3bz (for 2.5GBASE-T)
	USB		Equivalent to USB 10 Gbps (SuperSpeed Plus USB / USB 3.2 Gen 2)
	Access point auto switch		Yes
	Automatic switching of communications settings		Yes
	FTP transfer (wireless LAN / wired LAN)		Yes
	Live streaming services (wireless LAN)		Yes
Dust and weather sealing	Video calls / live streaming (USB connection)		Yes
			Yes

*3: Based on CIPA standards/guidelines.

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**www.canon.com.au
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