

EOS R3

TECHNICAL SPECIFICATIONS



Canon

EOS R3

Shoot at the speed of life



FAST READOUT AND PROCESSING

At the heart of the EOS R3 lies a brand-new 24.1MP back-illuminated stacked CMOS sensor, and DIGIC X image processor. Together, they allow superb quality RAW files to be captured at up to 30fps, with full AF/AE tracking.



SEE. REACT. RESPOND

Change focus points and start tracking a new subject with Canon's unique Eye Control AF technology. This unparalleled control allows you to quickly change focus points – perfect for responding fast to ever-changing scenes.



MASTERING MOVEMENT

Taking object-tracking capabilities to new heights, EOS R3 features the people and animal AF tracking modes (including birds) found in the EOS R5, and now adds tracking of cars and motorbikes – perfect for motorsports shooters



SHOOT AT EXPLOSIVE SPEED

EOS R3 is designed to capture objects moving at high speed and built to meet the exacting demands of professional shooters, with ultra-responsiveness, high sensitivity, high reliability and durability.



SUPER STABLE SHOOTING

Benefit from up to 8-stops of protection against camera shake with Image Stabilizer (IS) technology. The camera's In-Body IS works in tandem with the Optical IS built into many RF lenses, letting you shoot handheld in dim light or while using longer shutter speeds.



EOS R3 | FEATURES

5.76MP EVF

Responsive electronic viewfinder (EVF) great for blackout free burst shooting and subject tracking with fast refresh rate



4.15 MILLION DOT 3.2" VARI-ANGLE LCD

The variable-angle LCD monitor makes it easier to shoot from high and low angles, or shoot in portrait orientation.



DIGIC X IMAGE PROCESSOR

DIGIC X provides high-speed processing which allows the EOS R3 to reach maximum shooting speeds.

**DIGIC
X**

OPTICAL SMART CONTROLLER

A smart controller optical device is built into the AF on button to enable faster and more intuitive selection of autofocus points



MULTI CONTROLLER (AKA AF JOYSTICK)

The multi controller facilitates familiar, quick and intuitive selection and adjustment of the AF frame.



VERTICAL SHOOTING CONTROLS

Shooting in portrait orientation with EOS R3 is ergonomic and instinctive with an integrated vertical grip with complete 2nd set of controls.



MAGNESIUM ALLOY BODY

Built to withstand the rigours of day-to-day professional use, the EOS R3's tough body is sealed to the same level as our legendary EOS-1D series.



LP-E19 BATTERY

Powered by a high-capacity LP-E19 battery – the same as you'll find in our EOS-1D X Mark III so you can share between models.



DUAL CARD SLOTS

Dual card slots allows files to be quickly written to CFexpress Type B or SD UHS II media.



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EOS R3 | ADVANCED ACCESSORY SHOE

The EOS R3 features a new advanced accessory shoe which provides data communication and power for a range of new optional accessories when attached to the camera.



NEW ACCESSORIES (all sold separately)

DM-E1D Digital Microphone



ST-E10 Speedlite Transmitter



AD-E1 Multi-function Shoe Adapter



AD-P1 Smartphone Link Adapter



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EOS R3 | SPECIFICATIONS

Lens mount	RF mount			
Compatible Lenses	Canon RF lens group Canon EF & EF-S lenses (when using EF-EOSR lens mount adapter)			
Lens Focal Length	Same as focal length indicated on the lens *using EF-S lenses: Approx 1.6 time the indicated focal length			
Image sensor	Type	Full-frame back illuminated stacked CMOS sensor		
	Effective pixels (Max. approx. pixels)	Approx 24.1MP		
	Aspect Ratio	3:2		
	Colour Filter Type	RBG Primary Colour Filter		
	Low Pass Filter	Yes		
	Dust Delete Features	Self-cleaning sensor unit; Manual clean supported; Dust delete data acquisition and appending		
Image processor	DIGIC X			
Recording media	Recording media	Card 1	CFexpress	
		Card 2	SDXC / SDHC / SD	
Recording Format	DCF2.0, Exif2.31, Supports time difference information			
Still photo recording	Image type	JPEG	Yes	
		HEIF	Yes	
		RAW (CR3 Canon 14-bit RAW format)	Yes	
		C-Raw	Yes	
	Image Quality	L, M, S1, S2, RAW, C-Raw		
	Pixels Recorded (rounded to the nearest 100,000)	L (Large)	Approx. 24mp (6000x4000)	
		M (Medium)	Approx. 10.6mp (3984x2656)	
		S1 (Small 1)	Approx. 5.9mp (2976x1984)	
		S2 (Small 2)	Approx. 3.8mp (2400x1600)	
		RAW	Approx. 24mp (6000x4000)	
	Maximum Burst (electronic shutter)	RAW (L)	CFexpress: 150, SD UHS II: 150	
		HEIF (L)	CFexpress: 460, SD UHS II: 450	
		JPEG (L)	CFexpress: 540, SD UHS II: 530	
	Maximum Burst (mechanical shutter)	RAW (L)	CFexpress: 1000+, SD UHS II: 290	
		HEIF (L)	CFexpress: 1000+, SD UHS II: 1000+	
JPEG (L)		CFexpress: 1000+, SD UHS II: 1000+		
Dual Pixel RAW	Not Supported			
Crop / Aspect Ratio	Cropped shooting and an aspect ratio can be set: Full frame, Approx. 1.6x (crop), 1:1 (aspect ratio), 4:3 (aspect ratio), 16:9 (aspect ratio)			
File Name	Preset code, User setting 1, User setting 2			
Image creation and image processing	Picture Style	Auto, Standard, Portrait, Landscape, Fine Detail, Neutral, Faithful, Monochrome, User Defined 1-3		
	White Balance	Auto	Ambience priority, White priority	
		Preset	Daylight, Shade, Cloudy, Tungsten light, White fluorescent light, Flash, Custom, Colour temperature setting (approx. 2500-10000 K)	
	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		
	Clarity	Yes		
	Auto Lighting Optimizer	Yes		
Long exposure noise reduction	Yes			
High ISO speed NR	Yes			

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Movie recording	MP4 recording	Yes		
	CRM recording (RAW movies)	Yes		
	Recording options	RAW+MP4	Yes	
		Record to multiple	Yes	
	Movie recording size	RAW	6K: 60p/30p/24p RAW (Standard) / RAW (Light)	
		8K DCI / UHD	No	
		4K DCI / UHD		60p/30p/24p
				ALL-I / IPB (Standard) / IPB (Light)
		Full HD	Yes ALL-I / IPB (Standard) / IPB (Light)	
	Movie cropping	4K	Yes (DCI / UHD)	
		Full HD	Yes	
	Image quality	RAW (Standard) / RAW (Light)	Yes / Yes	
		ALL-I	Yes	
		IPB (Standard) / IPB (Light)	Yes / Yes	
	High Frame Rate	4K DCI / UHD	Yes: ALL-I	
		Full HD	Yes: ALL-I	
	Canon Log / Canon Log 3		No / Yes	
	HDR PQ		Yes	
	Time-lapse movies		No	
	Movie digital IS		Yes	
Built-in microphone		Monaural		
External microphone input		Yes - 3.5mm stereo mini jack		
HDMI output for movie footage		Yes		
Standby: Low resolution (for movie recording)		Yes		
Continuous recording time available (maximum)	Normal movies	6 hr. 00 min. 00 sec.		
	High Frame Rate	1 hr. 30 min. 00 sec.		
Viewfinder	Type	Electronic (EVF)		
	Dot count (approx.)	5.76 million dots		
	Viewfinder refresh rate (max. fps)	119.88		
	Coverage (approx. %)	100		
	Magnification (approx. x)	0.76		
	Eyepoint (approx. mm)	23		
	Dioptric adjustment	Yes		
	Brightness adjustment	Yes		
	Colour tone adjustment	Yes		
	Fine-tuning colour tone	Yes		
	Optical viewfinder simulation	Yes		
	Display simulation	Yes		
	Vertical level indicator	Yes		
	Fade / blackout display	Yes		
	Monitor	Dot count (approx.)	4.15 million dots	
Brightness adjustment		Yes		
Colour tone adjustment		Yes		
Monitor always off during shooting		Yes		
UI magnification via touch control		Yes		
Exposure control	Still photo shooting mode	Fv / P / Tv / Av / M / BULB / C1 / C2 / C3		
	Movie recording mode	P / Tv / Av / M / C1 / C2 / C3		
	ISO speed (Still photos)	Normal	100 to 102400	
		Expansion for lower speeds (ISO equivalent)	L: 50	
		Expansion for faster speeds (max. ISO equivalent)	H: 204800	
	ISO speed (Normal movies)	Normal	100 to 25600	
		Expansion for faster speeds (max. ISO equivalent)	H1: 102400	
	Metering brightness range	Still photos (at 23°C/73°F, ISO 100)	EV -3 to 20	
		Movies (at 23°C/73°F, ISO 100, centre-weighted average metering)	EV -1 to 20	
Anti-flicker shooting		Yes		
HF(High frequency) anti-flicker shooting		Yes		
Multiple-exposure shooting	Multiple-exposure shooting	Yes		
	Compatibility with all lenses	Yes		
HDR mode	JPEG	Yes		
	HEIF (HDR PQ)	Yes		
Focus bracketing	Focus bracketing	Yes		

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AF	AF operation	One-Shot AF	Yes
		Servo AF	Yes
	AF area (AF method)	Face+Tracking	No
		Spot AF	Yes
		1-point AF	Yes
		Expand AF area: Above/below/left/right	Yes
		Expand AF area: Around	Yes
		Zone AF	No
		Large Zone AF (Vertical) / (Horizontal)	No
		Flexible Zone AF 1 / 2 / 3	Yes
	AF area (Full-frame)	Whole area AF	Yes
		Horizontal: Approx. 100%, Vertical: Approx. 100%	Yes
		Horizontal: Approx. 90%, Vertical: Approx. 100%	Yes
		Horizontal: Approx. 80%, Vertical: Approx. 80%	Yes
	Number of AF areas available for automatic selection	Horizontal: Approx. 40%, Vertical: Approx. 60%	Yes
		AF Area	Horizontal = Approx. 100%; Vertical = Approx. 100%
		Still photos	Max 1053 zones (39x27)
	User selectable AF point positions (set to 1-point AF, selected using multi-controller)	Movies	Max 819 zones (39x21)
		AF Area	Horizontal = Approx. 90%; Vertical = Approx. 100%
		Still photos	Max 4779 positions (81x59)
	Focusing brightness range * Except RF lenses with a Defocus Smoothing (DS) coating	Movies	Max 3969 positions (81x49)
		Still photos (with an f/1.2 lens, centre AF point, and One-Shot AF, at 23°C / 73°F and ISO 100)	EV -7.5 to 20
	Subject tracking	Movies (with an f/1.2 lens, centre AF point, and One-Shot AF, at 23°C / 73°F, ISO 100, and 29.97 fps)	EV -4.5 to 20
			All AF area modes
	Subject detection	People	Yes
		Animals (dogs / cats / birds)	Yes
		Vehicles (motorsports cars / motorcycles)	Yes
None		Yes	
Eye detection		Yes	
Spot detection (vehicle priority)		Yes	
Servo AF characteristics (in still photo shooting)		Yes	
Orientation-linked AF point: Point only / Area + point		Yes / Yes	
Register/return to home position		Yes	
Touch & drag AF		No	
Electronic full-time MF		Yes	
Eye control	Line-of-sight sensor (approx. pixels)	7560	
	Number of calibration data settings	6	
Shutter	Shutter mode	Mechanical shutter	Yes
		Electronic 1st curtain	Yes
		Electronic shutter	Yes
	Silent shutter function		Yes
	Shutter at shutdown		Closed/Open
	Shutter speed (sec.)	Mechanical shutter	1/8000 to 30
		Electronic 1st curtain	1/8000-30
		Electronic shutter	1/64000, 1/32000, 1/16000, 1/12800, 1/10000, 1/8000 to 30
	X-sync speed (sec.)	Mechanical shutter	X-sync at 1/200 sec.
		Electronic 1st curtain	X-sync at 1/250 sec.
Electronic shutter		X-sync at 1/180 sec.	
Operating durability (Mechanical)		500,000 cycles	
Image Stabilization (IS Mode)	Lens optical IS support		Yes
	In-body IS		Yes
	Coordinated control		Yes
	IS effectiveness, number of stops (Still photos, RF24-105mm F4 L Focal length (f) = 105 mm, Yaw/Pitch direction, CIPA standards compliant)		8.0
	Movie digital IS		Yes

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Drive (max. approx. shots/sec.)	High-speed continuous shooting +	Mechanical shutter	12
		Electronic 1st curtain	12
		Electronic shutter	30
	High-speed continuous shooting / continuous shooting	Mechanical shutter	6.0
		Electronic 1st curtain	8.0
		Electronic shutter	15
Low-speed continuous shooting	Mechanical shutter	3.0	
	Electronic 1st curtain	3.0	
	Electronic shutter	3.0	
Timer shooting	Bulb timer	Yes	
	Interval timer	Yes	
	Movie self-timer	Yes	
Flash	Continuous shooting priority (CSP) mode	Yes	
	E-TTL balance	Yes	
	Continuous flash control	Yes	
	Metered manual flash	Yes	
Playback	Browse images	2 methods	
	Voice memo	Yes	
Image processing after shooting	Dual Pixel RAW processing	No	
	RAW image processing	Yes	
	HEIF→JPEG conversion	Yes	
	Frame grab from movies	4K	
Customisation	Shutter release time lag	Yes	
	Customise Quick Controls	Yes	
	Save/load settings on card	Yes	
Appearance and camera controls	LCD panel (top / rear)	Yes / No	
	Mode button	Yes	
	Multi-controller	Yes	
	Optical smart controller	Yes	
	Quick control dial	Yes (2)	
	Multi-function button	Yes (2)	
	Vertical camera controls	Yes	
Button illumination (backlight)	Yes		
External interface	Multi-function shoe	Yes	
	Digital terminal	USB Type-C	
	HDMI output terminal	Type D	
	Remote control terminal	N3	
	System extension terminal	No	
	Ethernet terminal	RJ-45	
	External microphone input terminal	Yes	
	Headphone terminal	Yes	
Power source	Battery pack	LP-E19	
	Number of available shots (at 23°C, approx. number of shots)	Viewfinder	Power saving: 620; Smooth: 440
		Monitor	Power saving: 860; Smooth: 760
	USB Power Adapter PD-E1	Charging	Yes
		Powering the camera	No
	AC power source	AC-E19 / DR-E19	
Screen dimmer	Yes		
Communication functions	Communication method	Built-in Wi-Fi (wireless LAN)	IEEE 802.11b/g/n/a/ac
		Bluetooth	Ver.5.0
		USB	SuperSpeed Plus USB (USB 3.2 Gen 2) equivalent
		Ethernet (wired LAN)	1000BASE-T / 100BASE-TX / 10BASE-T
	Simultaneous operation of "EOS Utility: USB connection" and "FTP transfer: Built-in Wi-Fi connection"		Yes
	IEEE 802.1X authentication		Yes (Wi-Fi / Wired LAN)
	WPA3 support		Yes
	Browser Remote		Yes (Wired LAN)
	Mobile File Transfer (MFT) connectivity	iOS	USB / Wi-Fi connection
		Android	USB connection
	image.canon support		Yes
	Transfer time display (estimate) during FTP transfer		Yes
	Protected images not yet transferred / images that failed to transfer sent together		Yes
	Saving firmware upgrade files to a card		Yes
	Synchronize time between cameras		Yes (Wired LAN)
Built-in GPS		Yes	
Dimensions and weight	Dimensions (approx. w x h x d in mm, based on CIPA standards)		150.0 x 142.6 x 87.2
	Weight (approx. g including battery and CFexpress cards)		1015

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