

# 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 (Maximum 2TB capacity) or SD UHS II media.



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# EOS R3 | ADVANCED ACCESSORY SHOE

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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)

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**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

<b>Lens mount</b>	RF mount		
<b>Compatible Lenses</b>	Canon RF lens group Canon EF & EF-S lenses (when using EF-EOSR lens mount adapter)		
<b>Lens Focal Length</b>	Same as focal length indicated on the lens *using EF-S lenses: Approx 1.6 time the indicated focal length		
<b>Image sensor</b>	Type	Full-frame back illuminated stacked CMOS sensor	
	Effective pixels (Max. approx. pixels)	Approx 24.1MP	
	Aspect Ratio	3:2	
	Colour Filter Type	RGB Primary Colour Filter	
	Low Pass Filter	Yes	
Dust Delete Features	Self-cleaning sensor unit; Manual clean supported; Dust delete data acquisition and appending		
<b>Image processor</b>	DIGIC X		
<b>Recording media</b>	Recording media	Card 1	Cfexpress (Maximum 2TB capacity)
		Card 2	SDXC / SDHC / SD
<b>Recording Format</b>	DCF2.0, Exif2.31, Supports time difference information		
<b>Still photo recording</b>	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)	C-RAW	Approx. 24mp (6000x4000)
		RAW (L)	CFexpress: 150, SD UHS II: 150
		HEIF (L)	CFexpress: 460, SD UHS II: 450
	Maximum Burst (mechanical shutter)	JPEG (L)	CFexpress: 540, SD UHS II: 530
RAW (L)		CFexpress: 1000+, SD UHS II: 290	
HEIF (L)		CFexpress: 1000+, SD UHS II: 1000+	
Dual Pixel RAW	JPEG (L)	CFexpress: 1000+, SD UHS II: 1000+	
	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		
<b>Image creation and image processing</b>	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		

# EOS R3 | SPECIFICATIONS

<b>Movie recording</b>	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	
	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.	
<b>Viewfinder</b>	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	
	<b>Monitor</b>	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	
<b>Exposure control</b>	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	
<b>Multiple-exposure shooting</b>	Multiple-exposure shooting	Yes	
	Compatibility with all lenses	Yes	
<b>HDR mode</b>	JPEG	Yes	
	HEIF (HDR PQ)	Yes	
<b>Focus bracketing</b>	Focus bracketing	Yes	

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<b>AF</b>	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	
<b>Eye control</b>	Line-of-sight sensor (approx. pixels)	7560	
	Number of calibration data settings	6	
<b>Shutter</b>	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	
<b>Image Stabilization (IS Mode)</b>	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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