

TECHNICAL SPECIFICATIONS

EOS R3

IMAGE SENSOR		SHUTTER	
Type	36 x 24 mm CMOS	Type	Electronically controlled focal-plane shutter and Electronic shutter function in sensor
Effective Pixels	Approx. 24.1 megapixels		
Total Pixels	Approx. 26.7 megapixels	Speed	Mechanical: 30-1/8000 sec (1/2 or 1/3 stop increments), Bulb Electronic: 30-1/64000 (1/2 or 1/3 stop increments up to 1/16000 then 1 stop until 1/64000) (Total shutter speed range. Available range varies by shooting mode)
Aspect Ratio	3:2		Soft touch electromagnetic release
Low-Pass Filter	Built-in/Fixed		
Sensor Cleaning	EOS integrated cleaning system	Shutter Release	
Colour Filter Type	Primary Colour		
Sensor Shift IS	Yes, up to 8-Stops advantage depending on the lens used ¹		
		WHITE BALANCE	
IMAGE PROCESSOR		Type	Auto white balance with the imaging sensor
Type	DIGIC X	Settings	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, 5 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
LENS			
Lens Mount	RF (EF and EF-S lenses can be attached using EF TO EOS R ADAPTER, EF TO EOS R ADAPTER WITH CONTROL RING, EF TO EOS R Drop in filter ADAPTER EF-M lenses not compatible)	Custom White Balance	
		WB Bracketing	
Focal Length	Equivalent to 1.0x the focal length of the lens with RF and EF lenses 1.6x with EF-S		
FOCUSING		VIEWFINDER	
Type	Dual Pixel CMOS AF II	Type	0.5-inch OLED colour EVF
AF System/Points	With Area 100% horizontal and 100% vertical (Auto selection) ² 100% horizontal and 90% vertical (manual selection) ²	Dot count	5.76 Million dots (1600x1200)
AF working range	EV -7.5 – 20 (at 23°C & ISO100) ³	Coverage (Vertical/Horizontal)	Approx. 100%
AF Modes	One Shot Servo AF	Magnification	Approx. 0.76x ⁵
AF Point Selection	Automatic selection: 1053 Available AF areas when automatically selected Manual selection: 1-point AF (AF frame size can be changed) 4779 AF positions available stills (3969 Movies) Manual selection: AF point Expansion 4 points (up, down, left, right) Manual selection: AF point Expansion surrounding Manual selection: Flexible Zone AF 1-3 (all AF points divided into minimum 9 to 999 maximum focusing zones)	Eyepoint Dioptre Correction Display performance Viewfinder Information	Approx. 23mm (from eyepiece lens centre) -4 to +2 m ⁻¹ (dioptre) Power saving: 59.94 fps Smooth 119.98 fps AF point information, Eye Control pointer, Exposure level indicator, Shooting mode, ISO speed, Shutter speed, Aperture, Number of remaining multiple exposures, Exposure compensation, HDR shooting, Highlight tone priority, Multiple-exposure shooting, 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, Aspect ratio, 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, Wi-Fi function, Multi-function lock warning, Histogram, Electronic level, Lens information, focus distance scale, vertical exposure scale, Grid Yes, via customised button
AF Tracking	Humans, Animals (Dogs, Cats and Birds) or Vehicles (Racing cars or Motor bikes),	Depth of field preview	
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		LCD MONITOR	
Metering modes	Real-time with image sensor, 384-zone metering. (1)Evaluative metering (linked to All AF points) (2)Partial metering (Approx. 5.9% of viewfinder at centre) (3)Spot metering: Centre spot metering (Approx. 2.9% viewfinder at centre) AF point-linked spot metering not provided (4)Centre weighted average metering	Type	8.01 cm (3.2") Clear View LCD II, Approx. 4.15 million dots Approx. 100% Approx. 170° vertically and horizontally
Metering Brightness Range	EV -3 – 20 (at 23°C, ISO100, with evaluative metering)	Coverage	
AE Lock	Auto: AE lock takes effect when focus is achieved Manual: By AE lock button in P, Av, Fv, Tv and M modes	Viewing Angle horizontally/vertically	
Exposure Compensation	+/-3 EV in 1/3 or 1/2 stop increments (can be combined with AEB)	Coating Brightness Adjustment	Anti-smudge. Manual: Adjustable to one of seven levels Colour Tone Adjustment: 4 settings
AEB	+/-3 EV in 1/3 or 1/2 stop increments	Touch-screen operations	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.
Anti-flicker shooting	Yes. Flicker detected at a frequency of 100 Hz or 120 Hz. Maximum continuous shooting speed may decrease available with both electronic and mechanical shutter High Frequency anti flicker shooting for M and TV modes	Display Options	(1)Basic Camera settings (2)Advance Camera settings (3)Camera settings plus histogram and dual level display (4)No info (5)Quick Control Screen (6)Display off
ISO Sensitivity	Auto 100-102400 (in 1/3-stop or whole stop increments) ISO can be expanded to L:50, H1:204800, ⁴		

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Dual recording Microphone	Yes Built-in mono microphone (48 KHz, 16-bit x 2 channels)	INTERFACE	
HDMI Display	Output to external monitor only (output of images and shooting information, images are recorded to the card) Camera screen and External Monitor output (Simultaneous recording to camera and external recorder, camera screen shows images with shooting information)	Computer	SuperSpeed USB 3.2 Gen 2 USB C connector
HDMI Output	4K (DCI) 59.94p / 50.00p/29.97p /25.00p/24.00p / 23.98p, 4K (UHD) 59.94p / 50.00p/ 29.97p / 25.00p / 23.98p, Full HD 59.94p / 59.94i, 50.00p / 50.00i 480p 59.94p 576p 50p Uncompressed YCbCr 4:2:2, 8-bit or 10-bit, sound output via HDMI is also possible	Wi-Fi	Wireless LAN (IEEE802.11a/b/g/n/AC) (5 GHz /2.4 GHz) ¹² , with Bluetooth 5.0 support Features supported - EOS Utility, Smartphone, Upload to image.canon, Wireless printing
Focusing	Dual Pixel CMOS AF II with Eye/Face Detection and Tracking AF (people, animals and vehicles), Movie Servo AF Manual Focus	Other	HDMI mini out (Type D, HDMI-CEC compatible), External Microphone In/Line In (Stereo mini jack), Headphone socket (Stereo mini jack), N3-type terminal (remote control terminal)
ISO	Auto: 100-25600, H: up to 102400 Manual: 100-25600, H: up to 102400,	DIRECT PRINT	
OTHER FEATURES		PictBridge	Not supported
Metadata Tag	User copyright information (can be set in camera) Image rating (0-5 stars) IPTC data (registered with EOS Utility) IPTC data (via MFT app) Image transfer with caption (Caption registered with EOS Utility)	STORAGE	
LCD Panel/Illumination	Yes/Yes	Type	1x CFexpress type B 1x SD/SDHC/SDXC and UHS-II
Water/Dust resistance ¹¹	Yes	SUPPORTED OPERATING SYSTEM	
Voice Memo	Yes	PC & Macintosh	Windows 8.1 and Windows 10 (tablet mode not supported) OS X v10.12, 10.13, 10.14, 10.15, OS 11
Intelligent Orientation Sensor	Yes	SOFTWARE	
Playback zoom	1.5x - 10x in 15 steps (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, start of burst sequence Date, Folder, Movies, Stills, Protected images, Rating) (8)Movie edit (9)RAW processing (10)Rating	Image Processing	Digital Photo Professional 4.15.1 or later Digital Photo Professional Express mobile app (iOS only)
Display Formats		Other	EOS Utility 3 (incl. Remote Capture), Picture Style Editor, WFT Utility, EOS Lens Registration Tool, EOS Web Service Registration Tool, Canon Camera connect app (iOS/Android), Mobile File Transfer app (iOS/Android),
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	POWER SOURCE	
Histogram	Brightness: Yes RGB: Yes	Batteries	Rechargeable Li-ion Battery LP-E19 (supplied) With LCD Approx.860 shots (at 23°C) With Viewfinder Approx. 620 shots (at 23°C) ¹³
Highlight Alert	Yes	Battery life	6 levels + percentage
Image Erase	Single image, select range, Selected images, Folder, Card	Battery Indicator	Power turns off after 15 seconds, 30 seconds, 1, 3, 5, 10 or 30 mins
Image Erase Protection	Erase protection of Single image, Folder or Card all found images (only during image search)	Power saving	
Self-Timer	2 or 10 sec.	Power Supply & Battery Chargers	Battery charger LC-E19E (supplied), AC Adapter AC-E19 and DC Coupler DR-E19, PD-E1 USB power adapter
Menu Categories	(1)Shooting menu (2)AF Menu (3)Playback menu (4)Network (5)Setup menu (6)Custom Functions menu (7)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
Firmware Update	Update possible by the user via menu or Camera connect App (Camera, Lens, External Speedlite, BLE remote control, Lens adapter)	Operating Environment	0 – 40 °C, 85% or less humidity
		Dimensions (WxHxD)	150x 142.6 x 87.2mm
		Weight (body only)	Approx. 822 g (1015g with card and battery)
		ACCESSORIES	
		Wireless File Transmitter	None
		Lenses	All RF lenses (EF & EF-S via Lens adapters)
		Lens adapters	EF TO EOS R ADAPTER, EF TO EOS R ADAPTER WITH CONTROL RING, EF TO EOS R Drop in filter ADAPTER
		Flash	Canon Speedlite (EL-1 ¹⁴ , EL-100, 90EX, 220EX, 270EX, 270EX II, 320EX, 380EX, 420EX, 430EX, 430EX II, 430EX III 470EX-AL, 550EX, 580EX ¹⁴ , 580EX II ¹⁴ , 600EX ¹⁴ , 600EX-RT ¹⁴ , 600EX-II-RT ¹⁴ , 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 ¹⁴ , Speedlite Transmitter ST-E3-RT V2 ¹⁴ , Speedlite Transmitter ST- E10)
		Remote Controller/Switch	Remote control with N3 type socket, Speedlite 600EX-II-RT, Speedlite EL-1 and BR-E1 Bluetooth remote
		Other	Eyecup ER-h, Eyecup ER-hE, Multi-Function Shoe Adapter AD- E1, Multi-Function Shoe Directional Stereo Microphone DM-E1D (Mic), Multi-Function Shoe Adapter for Smartphone Link AD-P1 for Android (phone holder), Stereo Microphone DM-E1 / DM-E100



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All data is based on Canon standard testing methods except where indicated.
Subject to change without notice.

Footnotes:-

- ¹ 8 stops based on the CIPA standard with RF 24-105mm F4 L IS USM at a focal length of 105mm
- ² The AF area available vary depending on the lens used
- ³ The lowest light AF is available with an f/1.2 lens, centre AF point, One-Shot AF, at 23°C / 73°F, ISO 100 Except RF lenses with a Defocus Smoothing (DS) coating
- ⁴ Recommended Exposure Index
- ⁵ with 50mm lens at infinity, -1 m⁻¹ dpt
- ⁶ Under Canon testing standards with CFexpress card and during servo AF, only RF lenses and some EF lenses can be used for continuous shooting at the maximum speed. For details on supported lenses, refer to Canon's official website.
The continuous shooting speed may be reduced by the lens, shutter speed, aperture, flash, flicker reduction processing, subject conditions, and brightness (for example, when shooting in a dark place).
- ⁷ 4K UHD is 94% horizontal coverage of the image area, Full HD is 100%, 4K movie cropping mode is 62% of the horizontal area

- ⁸ If the cameras internal temperature becomes too high the maximum recording time will be reduced
- ⁹ In High frame Rate Movie mode sound is not recorded
- ¹⁰ Frame grab is not available for RAW movies or Canon Log 3 movies.
- ¹¹ Although the camera features dust- and water-resistant construction, this cannot completely prevent dust or water droplets from entering the camera.
- ¹² Wi-Fi use may be restricted in certain countries or regions
- ¹³ Based on the CIPA Standard and using the battery supplied with the camera, except where indicated. In power saving mode
- ¹⁴ Must use Multi-Function Shoe Adapter AD-E1 to retain weather sealing



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