

TECHNICAL SPECIFICATIONS

EOS R3

IMAGE SENSOR

Type	36 x 24 mm CMOS
Effective Pixels	Approx. 24.1 megapixels
Total Pixels	Approx. 26.7 megapixels
Aspect Ratio	3:2
Low-Pass Filter	Built-in/Fixed
Sensor Cleaning	EOS integrated cleaning system
Colour Filter Type	Primary Colour
Sensor Shift IS	Yes, up to 8-Stops advantage depending on the lens used ¹

IMAGE PROCESSOR

Type	DIGIC X
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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)
Focal Length	Equivalent to 1.0x the focal length of the lens with RF and EF lenses 1.6x with EF-S

FOCUSING

Type	Dual Pixel CMOS AF II
AF System/Points	With Area 100% horizontal and 100% vertical (Auto selection) ² 100% horizontal and 90% vertical (manual selection) ²
AF working range	EV -7.5 – 20 (at 23°C & ISO100) ³
AF Modes	One Shot Servo AF
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)
AF Tracking	Humans, Animals (Dogs, Cats and Birds) or Vehicles (Racing cars or Motor bikes).
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. 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
Metering Brightness Range	EV -3 – 20 (at 23°C, ISO100, with evaluative metering)
AE Lock	Auto: AE lock takes effect when focus is achieved Manual: By AE lock button in P, Av, Fv, Tv and M modes
Exposure Compensation	+/-3 EV in 1/3 or 1/2 stop increments (can be combined with AEB)
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 available with both electronic and mechanical shutter High Frequency anti flicker shooting for M and TV modes
ISO Sensitivity	Auto 100-102400 (in 1/3-stop or whole stop increments) ISO can be expanded to L:50, H1:204800, ⁴

SHUTTER

Type	Electronically controlled focal-plane shutter and Electronic shutter function in sensor
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)
Shutter Release	Soft touch electromagnetic release

WHITE BALANCE

Type	Auto white balance with the imaging sensor
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
Custom White Balance	
WB Bracketing	

VIEWFINDER

Type	0.5-inch OLED colour EVF
Dot count	5.76 Million dots (1600x1200)
Coverage (Vertical/Horizontal)	Approx. 100%
Magnification	Approx. 0.76x ⁵
Eyepoint	Approx. 23mm (from eyepiece lens centre)
Dioptre Correction	-4 to +2 m ⁻¹ (diopetre)
Display performance	Power saving: 59.94 fps Smooth 119.98 fps
Viewfinder Information	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
Depth of field preview	

LCD MONITOR

Type	8.01 cm (3.2") Clear View LCD II, Approx. 4.15 million dots
Coverage	Approx. 100%
Viewing Angle horizontally/vertically	Approx. 170° vertically and horizontally
Coating	Anti-smudge.
Brightness Adjustment	Manual: Adjustable to one of seven levels Colour Tone Adjustment: 4 settings
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.
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

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FLASH

Modes

E-TTL II Auto Flash, Metered Manual

X-sync

1/200sec mechanical shutter / 1/250th electronic 1st curtain, 1/180sec Electronic shutter

Flash Exposure Compensation

+/- 3EV 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

Multi-Function shoe/ Hot Shoe/PC terminal

Yes/Yes/Yes

External Flash Compatibility

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

External Flash Control

via camera menu screen

SHOOTING

Modes

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

Movie: Program AE, Shutter priority AE, Aperture priority AE, Manual, 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 (2 settings)

Auto Lighting Optimizer (4 settings)

Long exposure noise reduction

Clarity

High ISO speed noise reduction (4 settings)

(still and video)

Lens optical correction:

- 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

Cropping: JPEG images can be cropped

(Aspect ratios 3:2, 4:3, 16:9, 1:1)

Cropping of images

- Switch between vertical and horizontal cropping orientation

- Image straightening

- Cropping frame can be moved using touch screen operation

RAW image processing

Multiple exposure

HDR

HEIF to Jpeg conversion

Drive modes

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

Continuous Shooting

Max. Approx. 12 fps. with Mechanical shutter/1st curtain electronic speed maintained for 1000+ JPEG or 1000 RAW images or 30 FPS with electronic shutter speed maintained for 540 JPEG or 150 RAW images⁶

Built in

Interval timer

FILE TYPE - STILLS

Still Image Type

RAW 14 bit: RAW and C-RAW (Canon original RAW 3rd edition)

JPEG 8 bit: 10 compression options

HEIF 10 bit: 10 compression options

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/HEIF simultaneous recording

Image Size

Yes, any combination of RAW + JPEG or RAW + HEIF possible.

RAW/ C-RAW:

3:2 ratio 6000x4000, 1.6x (crop) 3744x2496

JPEG/ HEIF:

3:2 ratio (L) 6000x4000, (M) 3984x2656, (S1) 2976x1984, (S2) 2400x1600

1.6x (crop) (L) 3744x2496, (S2) 2400x1600

4:3 ratio (L) 5328x4000, (M) 3552x2664, (S1) 2656x1992, (S2) 2112x1600

1.6:9 ratio (L) 6000x3368, (M) 3984x2240, (S1) 2976x1680, (S2) 2400x1344

1:1 ratio (L) 4000x4000, (M) 2656x2656, (S1) 1984x1984, (S2) 1600x1600

Folders

New folders can be manually created, named and selected

File Numbering

(1)Consecutive numbering

(2)Auto-reset

(3)Manual reset

2 User Presets

File naming

EOS MOVIE

Movie Type

MP4 Video: 4K DCI/ UHD (17:9 / 16:9), Full HD (16:9)

4K/ Full HD: AVC/H.265 variable (average) bit rate,

Audio: Linear PCM

4K/ Full HD: MPEG4 AVC/H.264 variable (average) bit rate, Audio: Linear PCM

6K RAW: 12-bit CRM Audio: Linear PCM

6K DCI (17:9) 6000 x 3164 (59.94, 50, 29.97, 25, 24, 23.98

fps) RAW

4K DCI (17:9) 4096 x 2160 (59.94, 50, 29.97, 25, 24, 23.98

fps) intra or inter frame / light inter frame

(4K UHD (16:9) 3840 x 2160 (119.9, 100, 59.94, 50, 29.97,

25, 23.98 fps) intra or inter frame

Full HD (16:9) 1920 x 1080 (119.9, 100, 59.94, 50, 29.97,

25, 23.98 fps) intra or inter frame

Full HD (16:9) 1920 x 1080 HDR (29.97, 25 fps) inter

frame,

6K RAW 12bit, 4K/ Full HD - YCbCr4:2:0 8-bit or

YCbCr4:2:2 10bit

Yes, Canon Log 3

Colour Sampling (Internal recording)

Canon Log

Movie Length

Max duration 6 hours. (excluding High Frame Rate

movies). No 4 GB file limit with exFAT formatted

card.⁸

High Frame Rate Movie

MOV Video: 4K - DCI 4096x2160 / UHD 3840x2160/

Full HD 1920 x 1080 at 100 fps or 119.9 fps²

Recorded as 1/4-speed slow motion movie

8.8-megapixel JPEG still image frame grab from 4K

DCI movie possible

8.3-megapixel JPEG still image frame grab from 4K

UHD movie possible

(HEIF only possible when HDR PQ is set)

Frame Grab¹⁰

Bitrate/Mbps

CRM:

6K RAW (59.97p/50p): Approx. 2600 Mbps

6K RAW (29.97p/25.00p/): Approx. 2000 Mbps

6K RAW (24.00p/23.98p): Approx. 1600 Mbps

6K C-RAW (59.97p/50p): Approx. 1800 Mbps

6K C-RAW (29.97p/25.00p): Approx. 900 Mbps

6K C-RAW (24.00p/23.98p): Approx. 720 Mbps

MOV: MP4 H.264 Canon Log off:

4K DCI/UHD (119.9p / 100p): Approx. 1880 Mbps

4K DCI/UHD (59.94p/50.00p): ALL-I Approx. 940 Mbps

4K DCI/UHD (59.94p/50.00p): IPB Approx. 230 Mbps

4K DCI/UHD (59.94p/50.00p): IPB Light Approx.

120 Mbps

4K DCI/UHD (29.97p/25.00p/24.00p/23.98p): ALL-I

Approx. 470 Mbps

4K DCI/UHD (29.97p/25.00p/24.00p/23.98p): IPB

Approx. 120 Mbps

4K DCI/UHD (29.97p/25.00p/24.00p/23.98p): IPB Light

Approx. 60 Mbps

Full HD (119.9p / 100p): Approx. 360 Mbps

Full HD (59.94p/50.00p): ALL-I Approx. 180 Mbps

Full HD (59.94p/50.00p): IPB Approx. 60 Mbps

Full HD (59.94p/50.00p): IPB Light Approx. 35 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

Full HD (29.97p/25.00p/24.00p/23.98p): IPB Light

Approx. 12 Mbps

MOV: MP4 H.265 Canon Log on

4K DCI/UHD (119.9p / 100p): Approx. 1880 Mbps

4K DCI/UHD (59.94p/50.00p): ALL-I Approx. 1000 Mbps

4K DCI/UHD (59.94p/50.00p): IPB Approx. 340 Mbps

4K DCI/UHD (59.94p/50.00p): IPB Light Approx.

170 Mbps

4K DCI/UHD (29.97p/25.00p/24.00p/23.98p): ALL-I

Approx. 470 Mbps

4K DCI/UHD (29.97p/25.00p/24.00p/23.98p): IPB

Approx. 170 Mbps

4K DCI/UHD (29.97p/25.00p/24.00p/23.98p): IPB Light

Approx. 85 Mbps

Full HD (119.9p / 100p): Approx. 470 Mbps

Full HD (59.94p/50.00p): ALL-I Approx. 230 Mbps

Full HD (59.94p/50.00p): IPB Approx. 90 Mbps

Full HD (59.94p/50.00p): IPB Light Approx. 50 Mbps

Full HD (29.97p/25.00p/24.00p/23.98p):ALL-I Approx.

135 Mbps

Full HD (29.97p/25.00p/24.00p/23.98p): IPB Approx.

45 Mbps

Full HD (29.97p/25.00p/24.00p/23.98p): IPB Light

Approx. 28 Mbps



TECHNICAL SPECIFICATIONS

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Dual recording	Yes	INTERFACE	
Microphone	Built-in mono microphone (48 KHz, 16-bit x 2 channels)	Computer	SuperSpeed USB 3.2 Gen 2 USB C connector
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)	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
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 57.6p 50p Uncompressed YCbCr 4:2:2, 8-bit or 10-bit, sound output via HDMI is also possible	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)
Focusing	Dual Pixel CMOS AF II with Eye/Face Detection and Tracking AF (people, animals and vehicles), Movie Servo AF	DIRECT PRINT	
ISO	Manual Focus Auto: 100-25600, H: up to 102400 Manual: 100-25600, H: up to 102400,	PictBridge	Not supported
OTHER FEATURES		STORAGE	
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)	Type	1x CFexpress type B 1x SD/SDHC/SDXC and UHS-II
LCD Panel/Illumination	Yes/Yes	SUPPORTED OPERATING SYSTEM	
Water/Dust resistance¹¹	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
Voice Memo	Yes	SOFTWARE	
Intelligent Orientation Sensor	Yes	Image Processing	Digital Photo Professional 4.15.1 or later Digital Photo Professional Express mobile app (iOS only) 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),
Playback zoom	1.5x - 10x in 15 steps	Other	
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, start of burst sequence 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-E19 (supplied) With LCD Approx.860 shots (at 23°C) With Viewfinder Approx. 620 shots (at 23°C) ¹³ 6 levels + percentage
Histogram	Brightness: Yes RGB: Yes	Battery life	
Highlight Alert	Yes	Battery Indicator	Power turns off after 15 seconds, 30 seconds, 1, 3, 5, 10 or 30 mins
Image Erase	Single image, select range, Selected images, Folder, Card	Power saving	
Image Erase Protection	Erase protection of Single image, Folder or Card all found images (only during image search) 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
Self-Timer	(1)Shooting menu (2)AF Menu (3)Playback menu (4)Network (5)Setup menu (6)Custom Functions menu (7)My Menu	PHYSICAL SPECIFICATIONS	
Menu Categories		Body Materials	Magnesium Alloy body and polycarbonate with glass fibre
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	Operating Environment	0 – 40 °C, 85% or less humidity
Firmware Update	Update possible by the user via menu or Camera connect App (Camera, Lens, External Speedlite, BLE remote control, Lens adapter)	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-AI, 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

Live for the story_

TECHNICAL SPECIFICATIONS

EOS R3

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, -1m⁻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 camera's 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



Canon Inc.
canon.com
Canon Europe
canon-europe.com
English edition
Canon Europa NV 2021

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