

TECHNICAL SPECIFICATIONS

EOS R3

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|----------------------------------|--|--|
| IMAGE SENSOR | SHUTTER | Electronically controlled focal-plane shutter and Electronic shutter function in sensor |
| Type | Type | Mechanical: 30-1/8000 sec (1/2 or 1/3 stop increments), Bulk Electronic: 30-1/64000 (1/2 or 1/3 stop increments up to 1/16000 then 1 stop until 1/64000) |
| Effective Pixels | Speed | (Total shutter speed range. Available range varies by shooting mode) |
| Total Pixels | | Soft touch electromagnetic release |
| Aspect Ratio | Shutter Release | |
| Low-Pass Filter | WHITE BALANCE | Auto white balance with the imaging sensor |
| Sensor Cleaning | Type | AWB (Ambience priority/White priority), Daylight, Shade, Cloudy, Tungsten light, White Fluorescent light, Flash, Custom, Colour Temperature Setting |
| Colour Filter Type | Settings | White balance compensation: |
| Sensor Shift IS | | 1.Blue/Amber +/-9 2.Magenta/Green +/-9 |
| IMAGE PROCESSOR | Custom White Balance | Yes, 5 setting can be registered |
| Type | WB Bracketing | +/-3 levels in single level increments |
| LENS | | 3, 2, 5 or 7 bracketed images per shutter release |
| Lens Mount | | Selectable Blue/Amber bias or Magenta/Green bias |
| Focal Length | VIEWFINDER | |
| | Type | 0.5-inch OLED colour EVF |
| | Dot count | 5.76 Million dots (1600x1200) |
| | Coverage (Vertical/Horizontal) | Approx. 100% |
| | Magnification | Approx. 0.76x⁵ |
| | Eye point | Approx. 23mm [from eyepiece lens centre] |
| | Dioptric Correction | -4 to +2 m⁻¹ (dioptrre) |
| | 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 |
| FOCUSING | Depth of field preview | Yes, via customised button |
| Type | LCD MONITOR | |
| AF System/Points | Type | 8.01 cm (3.2") Clear View LCD II, Approx. 4.15 million dots |
| AF working range | Coverage | Approx. 100% |
| AF Modes | Viewing Angle horizontally/vertically | Approx. 170° vertically and horizontally |
| AF Point Selection | Coating | Anti-smudge. |
| | Brightness Adjustment | Manual: Adjustable to one of seven levels Colour Tone Adjustment: 4 settings |
| AF Tracking | 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. |
| AF Lock | 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 |
| AF Assist Beam | | |
| Manual Focus | | |
| EXPOSURE CONTROL | | |
| Metering modes | | |
| Metering Brightness Range | | |
| AE Lock | | |
| Exposure Compensation | | |
| AEB | | |
| Anti-flicker shooting | | |
| ISO Sensitivity | | |

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| FLASH Modes X-sync | E-TTL II Auto Flash, Metered Manual 1/200sec mechanical shutter / 1/250 th electronic 1 st curtain, 1/180sec Electronic shutter +/- 3EV in 1/3 increments with EX series Speedlite flashes | File Numbering | (1)Consecutive numbering (2)Auto-reset (3)Manual reset 2 User Presets |
| Flash Exposure Compensation | Yes, with compatible External Flash | File naming | |
| Flash Exposure Bracketing | Yes | EOS MOVIE Movie Type | |
| Second Curtain Synchronisation | Yes, via Speedlite | Movie Size ⁷ | 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, 23.98fps) intra or inter frame Full HD (16:9) 1920 x 1080 (119.9, 100, 59.94, 50, 29.97, 25, 23.98fps) 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 |
| External Flash Compatibility | Yes/Yes/Yes | Colour Sampling (Internal recording) | Max duration 6 hours. (excluding High Frame Rate movies). No 4 GB file limit with exFAT formatted card. ⁸ |
| External Flash Control | E-TTL II with EX series Speedlite, wireless multi-flash support via camera menu screen | Canon Log | MOV Video: 4K – DCI 4096x2160 / UHD 3840x2160/ Full HD 1920 x 1080 at 100 fps or 119.9 fps ⁹ 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) |
| 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) Auto, Standard, Portrait, Landscape, Fine Detail, Neutral, Faithful, Monochrome, User Defined (x3) sRGB and Adobe RGB 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 | Movie Length | 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 |
| Picture Styles | Single, Continuous High+, Continuous High, Continuous Low, Self-timer (2s+remote, 10s+remote) Max. Approx. 12 fps. with Mechanical shutter/1 st 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 images ⁶ | High Frame Rate Movie | 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 |
| Colour Space Image Processing | Built in | Frame Grab ¹⁰ | 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 |
| Drive modes | | Bitrate/Mbps | |
| Continuous Shooting | | | |
| 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 | Yes, any combination of RAW + JPEG or RAW + HEIF possible, | | |
| Image Size | 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 16:9 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 | | |

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| Dual recording | Yes | INTERFACE | SuperSpeed USB 3.2 Gen 2 USB C connector |
| Microphone | Built-in mono microphone (48 KHz, 16-bit x 2 channels) | Computer | Wireless LAN (IEEE802.11a/b/g/n/AC) (5 GHz /2.4 GHz) ¹² , with Bluetooth 5.0 support |
| 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 | 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 576p 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 Manual Focus | DIRECT PRINT | Not supported |
| ISO | Auto: 100-25600, H: up to 102400 Manual: 100-25600, H: up to 102400, | STORAGE | 1x CFexpress type B 1x SD/SDHC/SDXC and UHS-II |
| OTHER FEATURES | | SUPPORTED OPERATING SYSTEM | Windows 8.1 and Windows 10 (tablet mode not supported) OS X v10.12, 10.13, 10.14, 10.15, OS 11 |
| 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) | PC & Macintosh | Digital Photo Professional 4.15.1 or later Digital Photo Professional Express mobile app (iOS only) |
| LCD Panel/Illumination | Yes/Yes | SOFTWARE | 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), |
| Water/Dust resistance ¹¹ | Yes | Image Processing | |
| Voice Memo | Yes | Other | Rechargeable Li-ion Battery LP-E19 (supplied) With LCD Approx.860 shots (at 23°C) With Viewfinder Approx. 620 shots (at 23°C) ¹³ |
| Intelligent Orientation Sensor | Yes | POWER SOURCE | 6 levels + percentage |
| Playback zoom | 1.5x - 10x in 15 steps | Batteries | Power turns off after 15 seconds, 30 seconds, 1, 3, 5, 10 or 30 mins |
| 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 | Battery life | Battery charger LC-E19E (supplied), AC Adapter AC-E19 and DC Coupler DR-E19, PD-E1 USB power adapter |
| 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 | Battery Indicator | |
| Histogram | Brightness: Yes RGB: Yes | Power saving | Magnesium Alloy body and polycarbonate with glass fibre |
| Highlight Alert | Yes | Power Supply & Battery Chargers | 0 – 40 °C, 85% or less humidity 150x 142.6 x 87.2mm Approx. 822 g (1015g with card and battery) |
| Image Erase | Single image, select range, Selected images, Folder, Card | PHYSICAL SPECIFICATIONS | None |
| Image Erase Protection | Erase protection of Single image, Folder or Card all found images (only during image search) | Body Materials | All RF lenses (EF & EF-S via Lens adapters) |
| Self-Timer | 2 or 10 sec. | Operating Environment | EF TO EOS R ADAPTER, EF TO EOS R ADAPTER WITH CONTROL RING, EF TO EOS R Drop in filter ADAPTER |
| Menu Categories | (1)Shooting menu (2)AF Menu (3)Playback menu (4)Network (5)Setup menu (6)Custom Functions menu (7)My Menu | Dimensions (WxHxD) | Canon Speedlite (EL-1 ¹⁴ , EL-100, 90EX, 220EX, 270EX, 270EX II, 320EX, 380EX, 420EX, 430EX, 430EX II, 430EX II, 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) |
| 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 | Weight (body only) | Remote control with N3 type socket, Speedlite 600EX-II-RT, Speedlite EL-1 and BR-E1 Bluetooth remote |
| Firmware Update | Update possible by the user via menu or Camera connect App (Camera, Lens, External Speedlite, BLE remote control, Lens adapter) | ACCESSORIES | 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, -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 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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English edition

Canon Europa NV 2021