

TECHNICAL SPECIFICATIONS

EOS R5

IMAGE SENSOR

Type	36 x 24 mm CMOS
Effective Pixels	Approx. 45 megapixels
Total Pixels	Approx. 47.1 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, 5 axis, up to 8-Stops when used with compatible lenses ^[1]

IMAGE PROCESSOR

Type	DIGIC X
------	---------

LENS

Lens Mount	RF (EF and EF-S lenses can be attached using: Mount Adapter EF-EOS R Control Ring Mount Adapter EF-EOS R Drop-In Filter Mount Adapter EF-EOS R) EF-M lenses are 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	100% horizontal and 100% vertical with Face + Tracking and Auto Selection modes 100% horizontal and 90% vertical with manual selection and large zone modes ^[2]
AF working range	EV -6 – 20 (at 23°C & ISO100) ^[3]
AF Modes	One Shot Servo AF AI Focus AF (in A+ Scene Intelligent Auto mode)
AF Point Selection	Automatic selection: Face + tracking, 1053 Available AF areas when automatically selected Manual selection: 1-point AF (AF frame size can be changed) 5940 (stills)/ (4500) movie AF positions available Manual selection: AF point Expansion 4 points (up, down, left, right) Manual selection: AF point Expansion surrounding points Manual selection: Zone AF (all AF points divided into 9 focusing zones) Manual selection: Large Zone AF (Vertical) Manual selection: Large Zone AF (Horizontal)
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. 6.1% of viewfinder at centre) (3) Spot metering: Centre spot metering (approx. 3.1% 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

Anti-flicker shooting	+/-3 EV in 1/3 or 1/2 stop increments Yes, Flicker detected at a frequency of 100 Hz or 120 Hz. Maximum continuous shooting speed may decrease
ISO Sensitivity ^[4]	Auto 100-51200 (in 1/3-stop or 1 stop increments) ISO can be expanded to L:50, H1:102400

SHUTTER

Type	Electronically-controlled focal-plane shutter and Electronic shutter function on sensor
Speed	30-1/8000 sec (1/2 or 1/3 stop increments), Bulb (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, 1 setting can be registered
Custom White Balance	+/-3 levels in single level increments
WB Bracketing	3, 2, 5 or 7 bracketed images per shutter release Selectable Blue/Amber bias or Magenta/Green bias

VIEWFINDER

Type	0.5-inch OLED colour EVF
Dot count	5.69 Million dots (1600x1200)
Coverage (Vertical/Horizontal)	Approx. 100%
Magnification	Approx. 0.76x ^[5]
Eyepoint	Approx. 23mm (from eyepiece lens centre)
Dioptrre Correction	-4 to +2 m ⁻¹ (dioptre)
Viewfinder Information	Shutter speed, Aperture, ISO speed, AF point information, Exposure level indicator, Number of remaining exposures, Exposure compensation, Battery level, Electronic shutter, HDR shooting, Highlight tone priority, Multiple-exposure shooting, Dual Pixel RAW shooting, Self-timer shooting mode, Maximum burst, AF method, Exposure simulation, Drive mode, AEB, Metering mode, FEB, Anti-flicker shooting, Still/video cropping, Shooting mode, Aspect ratio, Scene icons Auto Lighting Optimizer, AE lock Picture Style, Flash-ready, White balance, FE lock, Image Quality, High-speed sync, Bluetooth function, Wi-Fi on/off, Histogram, Electronic level, Focus distance scale in manual focus, IS system, Audio Level - Manual (video), recording time remaining (video), headphone level (video), Video recording resolution/frame rate and compression (video) Rec indicator (video)
Depth of field preview	Yes, via customised button
Eyepiece shutter	N/A

LCD MONITOR

Type	8.01 cm (3.15") Clear View LCD II, approx. 2.1 million dots
Coverage	Approx. 100%
Viewing Angle horizontally/vertically	Approx. 170° vertically and horizontally
Coating	Anti-smudge. Reinforced glass incorporated
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



Live for the story_

TECHNICAL SPECIFICATIONS

EOS R5

FLASH Modes X-sync

E-TTL II Auto Flash, Metered Manual
1/200sec mechanical shutter / 1/250th electronic 1st curtain
+/- 3EV in 1/3 increments with EX series Speedlite flashes
Yes, with compatible External Flash
Yes
Yes via Speedlite

Flash Exposure Compensation Flash Exposure Bracketing Flash Exposure Lock Second Curtain Synchronisation Hot Shoe/PC terminal External Flash Compatibility External Flash Control

Yes/Yes
E-TTL II with EX series Speedlite, wireless multi-flash support via camera menu screen

SHOOTING Modes

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

Picture Styles

Auto, Standard, Portrait, Landscape, Fine Detail, Neutral, Faithful, Monochrome, User Defined (x3)
sRGB and Adobe RGB

Colour Space Image Processing

Dual Pixel RAW – Portrait Relighting, Background Clarity (in camera)
Highlight Tone Priority (2 settings)
Auto Lighting Optimizer (4 settings)
Long exposure noise reduction
Clarity
High ISO speed noise reduction (4 settings) (stills 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 of images (JPEG/HEIF)
- Aspect ratios 3:2, 4:3, 1.6:9, 1:1
- 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
Single, Continuous High+, Continuous High, Continuous Low, Self timer (2s+remote, 10s+remote)
Max. Approx. 12fps, with Mechanical shutter or 20fps with electronic shutter speed maintained for 350 JPEG or 180 RAW images ^{[6] [7]}
Built in

Drive modes

Continuous Shooting

Interval timer

FILE TYPE - STILL Still Image Type

JPEG: 2 compression options
RAW: RAW, C-Raw 14bit (14-bit A/D conversion with Mechanical shutter and Electronic 1st Curtain, 13-bit A/D conversion with H+ mode, 12-bit A/D conversion with Electronic shutter, Canon original RAW 3rd edition)
HEIF: 10bit HEIF is available in HDR shooting with [HDR PQ] set to [Enable]
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, including Dual Pixel RAW + JPEG/HEIF
JPEG/HEIF:
3:2 ratio (L, RAW, C-Raw) 8192x5464, (M1) 5808x3872, (S1) 4176x2784, (S2) 2400x1600
1.6x (crop) (L) 5088x3392, (S2) 2400x1600
4:3 ratio (L) 7280x5464, (M1) 5152x3872, (S1) 3712x2784, (S2) 2112x1600
1.6:9 ratio (L) 8192x4608, (M1) 5808x3264, (S1) 4176x2344, (S2) 2400x1344
1:1 ratio (L) 5456x5456, (M1) 3872x3872, (S1) 2784x2784, (S2) 1600x1600

Folders

File Numbering

File naming

New folders can be manually created, named and selected
(1) Consecutive numbering
(2) Auto reset
(3) Manual reset
2 User presets

EOS Movie Movie Type

MP4 Video: 8K DCI/ UHD (17:9 / 16:9) 4K DCI/ UHD (17:9 / 16:9), Full HD
8K/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
8K RAW: 12bit CRM Audio: Linear PCM
8K DCI (17:9) 8192 x 4320 (29.97, 25, 24, 23.98 fps)
RAW, intra or inter frame ^[8]
8K UHD (16:9) 7680 x 4320 (29.97, 25, 23.98 fps) intra or inter frame ^[8]
4K DCI (17:9) 4096 x 2160 (119.9, 100, 59.94, 50, 29.97, 25, 24, 23.98 fps) intra or inter frame ^{[8] [9]}
4K UHD (16:9) 3840 x 2160 (119.9, 100, 59.94, 50, 29.97, 25, 23.98 fps) intra or inter frame ^{[8] [9]}
Full HD (16:9) 1920 x 1080 (59.94, 50, 29.97, 25, 23.98 fps) intra or inter frame ^[8]
Full HD (16:9) 1920 x 1080 HDR (29.97, 25 fps) inter frame ^[8]
Full HD (16:9) 1920 x 1080 (29.97, 25) Light inter frame
8K/ 4K/ Full HD - YCbCr4:2:0 8-bit or YCbCr4:2:2 10bit

Colour Sampling (Internal recording) Canon Log Movie Length

Yes, Canon Log 1
Max duration 29min 59sec, (excluding High Frame Rate movies). No 4GB file limit with exFAT formatted SD card, ^[8]

High Frame Rate Movie

MOV Video: 4K – DCI 4096x2160 or UHD 3840x2160 UHD at 100fps or 119.9fps
Recorded as 1/4-speed slow motion movie
Single scene maximum recording up to 7min 29sec.
35.4-megapixel JPEG still image frame grab from 8K DCI movie possible
33.2-megapixel JPEG still image frame grab from 8K UHD movie possible
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

Frame Grab

Canon

Live for the story_

TECHNICAL SPECIFICATIONS

EOS R5

Bitrate/Mbps	CRM: 8k Raw (29.97p/25.00p/24.00p/23.98p): Approx. 2600 Mbps MOV: MP4 H.264 Canon Log off 8K ALL-I (29.97p/25.00p/24.00p*/23.98p): Approx. 300 Mbps 8K IPB (29.97p/25.00p/24.00p*/23.98p): Approx. 470 Mbps 4K (119.9p / 100p): Approx. 1880 Mbps 4K (59.94p/50.00p): ALL-I Approx. 940 Mbps 4K (59.94p/50.00p): IPB Approx. 230 Mbps 4K (29.97p/25.00p/24.00p/23.98p): ALL-I Approx. 470 Mbps 4K (29.97p/25.00p/24.00p/23.98p): IPB Approx. 120 Mbps Full HD (59.94p/50.00p)/ALL-I: Approx. 180 Mbps Full HD (59.94p/50.00p)/IPB Approx. 60 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)/IPB (Light): Approx. 12 Mbps 8K Time Lapse (29.97p/25.00p) ALL-I: Approx. 1300 Mbps 4K Time Lapse (29.97p/25.00p) ALL-I: Approx. 470 Mbps Full HD Time Lapse (29.97p/25.00p) ALL-I: Approx. 90 Mbps MOV: MP4 H.265 Canon Log on 8K ALL-I (29.97p/25.00p/24.00p*/23.98p): Approx. 1300 Mbps 8K IPB (29.97p/25.00p/24.00p*/23.98p): Approx. 680 Mbps 4K (119.9p / 100p): Approx. 1880 Mbps 4K (59.94p/50.00p): ALL-I Approx. 1000 Mbps 4K (59.94p/50.00p): IPB Approx. 340 Mbps 4K (29.97p/25.00p/24.00p/23.98p): ALL-I Approx. 470 Mbps 4K (29.97p/25.00p/24.00p/23.98p): IPB Approx. 170 Mbps Full HD (59.94p/50.00p)/ALL-I: Approx. 230 Mbps Full HD (59.94p/50.00p)/IPB Approx. 90 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)/IPB (Light): Approx. 28 Mbps 8K Time Lapse (29.97p/25.00p) ALL-I: Approx. 1300 Mbps 4K Time Lapse (29.97p/25.00p) ALL-I: Approx. 470 Mbps Full HD Time Lapse (29.97p/25.00p) ALL-I: Approx. 135 Mbps	LCD Panel/Illumination Water/Dust resistance Voice Memo Intelligent Orientation Sensor Playback zoom Display Formats	Yes/Yes Yes ⁽¹⁰⁾ Yes Yes 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, Date, Folder, Movies, Stills, Protected images, Rating) (8) Movie edit (9) RAW processing (10) Rating 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 Brightness: Yes RGB: Yes Yes Single image, select range, Selected images, Folder, Card Erase protection of Single image, Folder or Card all found images (only during image search) 2 or 10 sec. (1) Shooting menu (2) AF Menu (3) Playback menu (4) Network (5) Setup menu (6) Custom Functions menu (7) My Menu 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 Update possible by the user (Camera, Lens, WFT, External Speedlite, BLE remote control, Lens adapter)
Microphone	Built-in mono microphone (48 Khz, 16-bit x 2 channels)		
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)	Slide Show Histogram Highlight Alert Image Erase Image Erase Protection Self Timer Menu Categories	
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	Menu Languages Firmware Update	
Focusing	Dual Pixel CMOS AF II with Eye/Face Detection and Animal Tracking AF, Movie Servo AF Manual Focus (Peaking and Focus Guide available)	INTERFACE Computer Wi-Fi ⁽¹²⁾	SuperSpeed USB 3.1 Gen 2 USB C connector Wireless LAN (IEEE802.11a/b/g/n/AC) (5Ghz /2.4 Ghz), with Bluetooth 4.2 support ⁽¹¹⁾ Features supported - EOS Utility, Smartphone, Upload to image.canon, Wireless printing
ISO for Movies	Auto: 100-6400, H: 51200 Manual: 100-25600, H1: 51200,	Other	HDMI micro out (Type D), External Microphone In/Line In (Stereo mini jack), Headphone socket (Stereo mini jack), N3-type terminal (remote control terminal) Flash sync socket
OTHER FEATURES		DIRECT PRINT PictBridge	Not supported
Custom Functions	23 Custom Functions	STORAGE Type	1x CFexpress type B 1x SD/SDHC/SDXC and UHS-II
Metadata Tag	User copyright information (can be set in camera) Image rating (0-5 stars) IPTC data (registered with EOS Utility) Image transfer with caption (Caption registered with EOS Utility)	SUPPORTED OPERATING SYSTEM PC & Macintosh	Windows 8.1 and Windows 10 (tablet mode not supported) OS X v10.12, 10.13, 10.14, 10.15

Canon

Live for the story_

TECHNICAL SPECIFICATIONS

EOS R5

SOFTWARE	
Image Processing	Digital Photo Professional 4.12.4 or later, Digital Photo Professional Express mobile app (iPad only) (RAW Image Processing not DUAL PIXEL RAW on DPP Express mobile app)
Other	EOS Utility 3.12.3 or later (incl. Remote Capture), Picture Style Editor, WFT Utility, EOS Lens Registration Tool, EOS Web Service Registration Tool, Canon Camera Connect app and image.canon app (iOS/Android)
POWER SOURCE	
Batteries	Rechargeable Li-ion Battery LP-E6NH (supplied)/LP-E6N
Battery life	With LCD Approx. 490 shots (at 23°C) ^[11] With LCD Approx. 470 (at 0°C) With Viewfinder Approx. 320 shots (at 23°C) ^[11] With Viewfinder Approx. 310 (at 0°C)
Battery Indicator	6 levels + percentage
Power saving	Power turns off after 30 seconds, 1, 3, 5, 10 or 30mins
Power Supply & Battery Chargers	Battery charger LC-E6E (supplied), AC Adapter AC-E6N and DC Coupler DR-E6, AC Adapter Kit ACK-E6N/ACK-E6, Car Battery Charger CBC-E6, PD-E1 USB power adapter
PHYSICAL SPECIFICATIONS	
Body Materials	Magnesium Alloy body and Chassis with some components consisting of polycarbonate with glass fibre
Operating Environment	0 – 40 °C, 85% or less humidity
Dimensions (WxHxD)	135.8 x 97.5 x 88mm
Weight (body only)	Approx. 650 g (738 g with card and battery)
ACCESSORIES	
Wireless File Transmitter	Wireless File Transmitter WFT-R10B
Lenses	All RF lenses (EF & EF-S via Lens adapters)
Lens adapters	Mount Adapter EF-EOS R Control Ring Mount Adapter EF-EOS R Drop-In Filter Mount Adapter EF-EOS R
Flash	Canon Speedlite (EL-100, 90EX, 220EX, 270EX, 270EX II, 320EX, 380EX, 420EX, 430EX, 430EX II, 430EX III-RT, 470EX-AI, 550EX, 580EX, 580EX II, 600EX, 600EX-RT, 600EX II-RT, 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)
Remote Controller/Switch	Remote control with N3 type socket, Wireless Remote Control BR-E1, Infrared Remote RC-6 and Speedlite 600EX-II-RT
Other	BG-R10 battery grip, GP-E2 GPS receiver (digital compass not supported), Stereo Microphone DM-E1 / DM-E100

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 distance 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, center 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, -1m² dpt
- ^[6] Max Frames per second will vary depending on the battery type, if Wi-Fi is turned on, operating temperature lens used and file size. The number of possible shots and maximum burst vary depending on shooting conditions (including [1.6x (crop)], aspect ratio, subject, memory card brand, ISO speed, Picture Style, and Custom Function). The speeds quoted are based on testing with the following settings: Shutter speed 1/1000 sec. or faster, Aperture Maximum aperture, Flash Not used, Flicker reduction Not used, Battery pack Fully charged LP-6NH, Temperature Room temperature (23°C / 73°F), Battery grip Not used, Dual Pixel RAW disabled, Wi-Fi settings OFF, Figures quoted are when used with CFexpress memory card 1400MB/s write speed.
- ^[7] Max Frame rates for stills can vary between lenses and aperture setting used
- ^[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] Although the camera features dust- and water-resistant construction, this cannot completely prevent dust or water droplets from entering the camera.
- ^[11] Based on the CIPA Standard and using the battery supplied with the camera, except where indicated. In power saving mode
- ^[12] Wi-Fi use may be restricted in certain countries or regions



Live for the story_

Canon Inc.
canon.com
Canon Europe
canon-europe.com
English edition
Canon Europa NV 2020