



Clifton Cameras Product Specification

Canon EOS R6 Mark II

Specifications

Image Sensor

Type	35.9 x 23.9 mm CMOS
Effective Pixels	Approx. 24.2megapixels
Total Pixels	Approx. 25.6 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: 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/ RF-S
Image Stabilisation	

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 -6.5 – 21 (at 23°C & ISO100) ³
AF Modes	One Shot, Servo AF, AI Focus AF



AF Point Selection	Automatic selection: 1053 Available AF areas when automatically selected, Manual selection: 1-point AF (AF frame size can be changed) 4897AF positions available stills (4067 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, Birds and horses) or Vehicles (Racing cars or Motor bikes, Aircraft and Trains)
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. 3% viewfinder at centre)- AF point linked spot metering not provided (4) Centre weighted average metering
Metering Brightness Range AE Lock	EV -3 – 20 (at 23°C, ISO100, with evaluative metering) 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 1 stop increments) ISO can be expanded to L:50, H:204,801

Shutter

Type	Electronically-controlled focal-plane shutter and Electronic shutter function on sensor
Speed	Mechanical: 30-1/8000 sec (1/2 or 1/3 stop increments), Bulb Electronic: 30-1/16000 (1/2 or 1/3 stop increments up to 1/8000 then 1 stop to 1/16000) (Total shutter speed range. Available range varies by shooting mode) ⁴
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 +/-10 2. Magenta/Green +/-11
Custom White Balance	Yes, 1 setting can be registered - From image or Live View
WB Bracketing	+/-3 levels in single level increments 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	3.69 Million Dots
Coverage (Vertical/Horizontal)	Approx. 100%
Magnification	Approx. 0.76x5
Eyepoint	Approx. 23mm (from eyepiece lens centre)
Dioptre Correction	-4 to +2 m-1 (dioptre)
Display Performance	Power saving: 59.94 fps Smooth 119.98 fps , suppress low frame rate 60 -119.8fps6
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, Self-timer shooting mode, Maximum burst, AF method, Subject to Track setting, 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, SA control ring setting, IS system. Audio Level – Manual (video), recording time remaining (video), headphone level (video), Video recording resolution frame rate and compression (video) Rec indicator (video), Overheat indicator (video)
Depth of field preview	Yes, via customised button or with "Exposure +DOP" (uptoF8)
Eyepiece Shutter	N/A

LCD Monitor

Type	7.5cm (3.0") Clear View LCD II, approx. 1.62 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

Flash

Modes	E-TTL II Auto Flash, Metered Manual
Red-Eye Reduction	
X-Sync	1/200sec mechanical shutter / 1/250th electronic 1st curtain
Flash Exposure Compensation	+/- 3EV in 1/3 or 1/2 stop 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/No
External Flash Compatibility	E-TTL II with EX / EL series Speedlite, wireless multi-flash support
External Flash Control	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: Auto Exposure, TV, AV 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 (3 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 only)

Focus Bracketing including image compositing Resize to M, S1, S2

Cropping of images (JPEG/HEIF)

- Aspect ratios 3:2, 4:3, 16:9, 1:1 x1.6crop

- Switch between vertical and horizontal cropping orientation

- Image straightening

- Cropping frame can be moved using touch screen operation

RAW image processing

Dual Pixel RAW – Portrait Relighting, Background Clarity (in camera)

Raw Cloud processing

Multiple exposure

HDR - with moving subject suppression

HEIF to Jpeg conversion (single or batch)

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

Continuous Shooting Max. Approx. 12fps. with Mechanical shutter, speed maintained for 1000+ JPEG or 110 RAW 1000 CRAW images. Max. Approx. 40fps. with Electronic shutter^{7,8}, speed maintained for 190 JPEG or 75 RAW, 140 CRAW images

RAW Burst 30fps with 0.3 or 0.5 seconds pre record for max approx 191 frames

Interval timer Built in

File Type – Stills

Still Image Types JPEG: 2 compression options

RAW: RAW, C-Raw 14 bit (14-bit with Mechanical shutter and Electronic 1st Curtain, 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 1.2

RAW+JPEG/HEIF simultaneous recording Yes, any combination of RAW + JPEG or RAW + HEIF possible

Image Size 3:2 ratio (L, RAW, C-RAW) 6000 x 4000, (M) 3984 x 2656, (S1) 2976x 11984, (S2) 2400 x 1600

1.6x (crop) (L) 3744 x 2496, (S2) 2400 x 1600

4:3 ratio (L) 5328 x 4000, (M) 3552 x 2664 (S1) 2656 x 1992 (S2) 2112 x 1600

16:9 ratio (L) 6000 x 3368, (M) 3984 x 2240, (S1) 2976 x 1680, (S2) 2400 x 1344

1:1 ratio (L) 4000 x 4000, (M) 2656x 2656, (S1) 1984 x 1984, (S2) 1600 x 1600

Folders New folders can be manually created, named and selected

File Numbering File Numbering

(1) Consecutive numbering

(2) Auto reset

(3) Manual reset

File naming 3 User Presets

EOS Movie

Movie Type MP4 Video: 4K UHD, Full HD (16:9)9, Audio: Linear PCM / AAC]

Movie Size 4K UHD (16:9) 3840 x 2160 (59.94, 50, 29.97, 25, 23.98fps) inter frame (IPB) / (IPB Light)10

4K UHD Timelapse (16:9) 3840 x 2160 (29.97, 25fps) intra frame (All-I)

Full HD (16:9) 1920 x 1080 (179.82, 150, 119.88, 100, 59.94, 50, 29.97, 25, 23.98fps) inter frame (IPB) / (IPB Light)10

Full HD Timelapse (16:9) 1920 x 1080 (29.97, 25fps) intra frame (All-I), Full HD HDR (16:9) 1920 x 1080 (29.97, 25fps) intra frame (All-I)10

Colour Sampling (Internal recording) 4K/ Full HD - YCbCr4:2:0 8-bit or YCbCr4:2:2 10bit

Canon Log Yes, Canon Log 3

Movie Length Max duration 6 hours (excluding High Frame Rate movies, and power and storage limitations).11 Upto 5 seconds pre record possible. No 4GB file limit with exFAT formatted SD card.

High Frame Rate Movie Full HD at 180fps, 150fps, 100fps or 119.9fps10 Recorded as 1/6-speed slow motion movie. Single scene maximum recording up to approx 1 hour 180/150fps 1hour 30mins 120/100fps



Frame Grab	8.3-megapixel JPEG/HEIF still image frame grab from 4K UHD movie possible (HEIF only possible when HDR PQ is set) ¹²
Bitrate/Mbps	MP4 H.264 Canon Log Off 4K (59.94p/50.00p): IPB Approx. 230 Mbps 4K (59.94p/50.00p): IPB (Light) Approx. 120 Mbps 4K (29.97p/25.00p/23.98p): IPB Approx. 120 Mbps 4K (29.97p/25.00p/23.98p): IPB (Light) Approx. 60 Mbps 4K Timelapse (29.97, 25fps) All-I Approx. 470Mbps Full HD (179.82p/150.00p): IPB Approx. 180 Mbps Full HD (179.82p/150.00p): IPB (Light) Approx. 105Mbps Full HD (119.88p/100.00p): IPB Approx. 120 Mbps Full HD (119.88p/100.00p): IPB (Light) Approx. 70 Mbps Full HD (59.94p/50.00p): IPB Approx. 60 Mbps Full HD (59.94p/50.00p): IPB (Light) Approx. 35 Mbps Full HD (29.94p/25.00p/23.93p): IPB Approx. 30 Mbps Full HD (29.94p/25.00p): IPB (Light) Approx. 12 Mbps Full HD Timelapse (29.97, 25fps) All-I Approx. 90Mbps Full HDR Movies (29.97, 25fps) IPB Approx. 30 Mbps MP4 H.265 Canon Log / HDR PQ: On 4K (59.94p/50.00p): IPB Approx. 340 Mbps 4K (59.94p/50.00p): IPB (Light) Approx. 170 Mbps 4K (29.97p/25.00p/23.98p): IPB Approx. 170 Mbps 4K (29.97p/25.00p/23.98p): IPB (Light) Approx. 85 Mbps 4K Timelapse (29.97, 25fps) All-I Approx. 470Mbps Full HD (179.82p/150.00p): IPB Approx. 270 Mbps Full HD (179.82p/150.00p): IPB (Light) Approx. 150 Mbps Full HD (119.88p/100.00p): IPB Approx. 180 Mbps Full HD (119.88p/100.00p): IPB (Light) Approx. 100 Mbps Full HD (59.94p/50.00p): IPB Approx. 90 Mbps Full HD (59.94p/50.00p): IPB (Light) Approx. 50 Mbps Full HD (29.94p/25.00p/23.93p): IPB Approx. 45 Mbps Full HD (29.94p/25.00p): IPB (Light) Approx. 28 Mbps Full HD Timelapse (29.97, 25fps) All-I Approx. 135Mbps



Dual Card Recording	Yes
Microphone	Built-in stereo microphone (48 Khz, 16-bit x 2 channels), external mic or mikes like Multi-Function shoe including XLR via Tascam CAXLR2dC
HDMI Display	Output to external monitor only (output of images and shooting information, images are recorded to the card)
HDMI Output	Camera screen and External Monitor output (no recording to the card, camera screen shows images with shooting information) 4K (UHD) 59.94p / 29.97p / 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 6k upto 60p RAW to Atomos Ninja V+ recorded as ProRes RAW or 3.7k RAW with crop
Focusing	Dual Pixel CMOS AF with Eye/Face Detection, Face only and Animal Tracking AF, Movie Servo AF Manual Focus (Peaking and Focus Guide available)
ISO	Auto: 100-6400, H: 204800 Manual: 100-25600, H: 204801

Other Features

Custom Functions	22 Custom Functions
Metadata Tag	Image rating (0-5 stars) IPTC data (registered with EOS Utility or Mobile File Transfer app) Image transfer with caption (Caption registered with EOS Utility)
LCD Panel/Illumination	No/No
Weather Resistance	Yes ¹³
Voice memo	No
Intelligent Orientation Sensor	Yes
Playback zoom	1.5x – 10x in 15 steps
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

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

Histogram

Brightness: Yes

RGB: Yes

Highlight Alert

Yes

Image Erase

Single image, select range, Selected images, Burst sequence Folder, Card

Image Erase Protection

Erase protection of Single image, Folder or Card all found images (only during image search)

Self-Timer

4 or 10 sec

Menu Categories

(1) Shooting menu

(2) AF Menu

(3) Playback menu

(4) Network

(5) Setup menu

(6) Custom Functions menu

(7) My Menu

Menu Languages

30 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

Firmware Updates	Update possible by the user (Camera, Lens, External Speedlite, BLE remote control, Lens adapter) via card or Camera connect app
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Interface

Computer	SuperSpeed USB 3.2 Gen 2 USB C connector UVC/UAC support Windows / Mac OS compatible with Zoom, Skype(for Business), Teams , Meet, Webex, Wecom, Tencent Meeting
Wi-Fi	Wireless LAN (IEEE802.11AC/ab/g/n) (5/ 2.4 GHz), with Bluetooth v5.0 support Features supported - EOS Utility, Smartphone, Upload to Web14
Other	HDMI micro out (Type D), External Microphone In (Stereo mini jack), Headphone socket (Stereo mini jack), E3-type terminal (remote control terminal), Multi-Function shoe

Direct Print

Canon Printers	Direct Print
PictBridge	Not supported

Storage

Type	2x SD/SDHC/SDXC and UHS-II
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Supported Operating System

PC	Windows 8.1 and Windows 10, Windows 11 (tablet mode not supported)
Windows	OS X v10.12, 10.13, 10.14,10.15, OS 11.x

Software

Image Processing	Digital Photo Professional 4.17 or later, Digital Photo Professional Express mobile app (iOS only) (RAW Image Processing not DUAL PIXEL RAW on DPP Express moible)
Other	EOS Utility 3.16 or later (incl. Remote Capture), Picture Style Editor, EOS Lens Registration Tool, EOS Web Service Registration Tool, Canon Camera Connect V3.0 app, Mobile File Transfer app and image.canon app (iOS/Android)

Power Source

Batteries	Rechargeable Li-ion Battery LP-E6NH (supplied)/ LP-E6N
Battery Life	With LCD Approx. 760 shots (at 23°C) With Viewfinder Approx. 450 shots (at 23°C)15
Battery Indicator	7 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
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Accessories

Lenses	All RF/ RF-S 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-1, EL-5, 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, Speedlite Transmitter ST-E3-RT V2, Speedlite Transmitter ST-E10)
Remote Controller/Switch	Remote control with E3 type socket and Wireless Remote Control BR-E1
Other	BG-R10 battery grip, GP-E2 GPS receiver (digital compass not supported), Stereo Microphone DM-E1 / DM-E100, Multi-Function Shoe Adapter AD-E1, Multi-Function Shoe Directional Stereo Microphone DM-E1D, Multi-Function Shoe Adapter for Smartphone Link AD-P1 for Android, Tascam CA-XLR2d-C XLR microphone adapter

Physical Specifications

Body Materials	Magnesium Alloy chassis, outer panels are polycarbonate resin with glass fiber
Operating Environment	2 – 40 °C, 85% or less humidity
Dimensions (WxHxD)	138.4 × 98.4 × 88.4 mm
Weight (body only)	Approx. 588 g (670 g with card and battery)



Footnotes and Disclaimers

- 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, center AF point, One-Shot AF, at 23°C / 73°F, ISO 100 Except RF lenses with a Defocus Smoothing (DS) coating 4 Electronic shutter speed 1/16000th not available in H+ mode
 - 5 With 50mm lens at infinity, -1m-1 dpt
 - 6 Low light AF performance will be reduced when supress low frames is used
 - 7 Max Frames per second will vary depending on the battery type, and charge, 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, aspect ratio, subject, memory card brand, ISO speed, Picture Style, and Custom Function). The speeds quoted are based on Canon 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, Wi-Fi settings OFF
 - 8 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). When High speed continuous shooting (H+) is set, continuous shooting speed will not decline.
 - 9 4K UHD and Full HD is 100%, 4K movie cropping mode is 62% of the horizontal area
 - 10 In High frame Rate Movie mode sound is not recorded
 - 11 If the cameras internal temperature becomes too high the maximum recording time will be reduced
 - 12 Frame grab is not available for RAW movies or Canon Log 3 movies
 - 13 Although the camera features weather-resistant construction, this cannot completely prevent dust or water droplets from entering the camera. To ensure adequate weather sealing, the supplied shoe cover should be used unless a weather sealed accessory is inserted in the Multi Function shoe.
 - 14 Wi-Fi use may be restricted in certain countries or regions
 - 15 Based on the CIPA Standard and using the battery supplied with the camera, except where
- Canon Ireland 3006 Lake Drive Citywest, Saggart Co. Dublin, Ireland Telephone No: 01 2052400 Facsimile No: 01 2052525 canon.ie
- Canon (UK) Ltd The Bower 4 Roundwood Avenue Stockley Park Uxbridge UB11 1AF
- Canon Inc. canon.com Canon Europe canon-europe.com English edition Canon Europa NV 2022
- indicated. In power saving mode