

Clifton Cameras Product Specification

Canon EOS R6 Camera Full Spec

IMAGE SENSOR	
Type	35.9 x 23.9 mm CMOS
Effective Pixels	Approx. 20.1 megapixels
Total Pixels	Approx. 21.4 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 ^[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
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 –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) 6072 (stills)/ (4968) 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. 5.8% 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
ISO Sensitivity [4]	Auto 100-102400 (in 1/3-stop or 1 stop increments) ISO can be expanded to L:50, H:204,800

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, ColourTemperature Setting White balance compensation: 1. Blue/Amber +/-10 2. Magenta/Green +/-10
Custom White Balance	Yes, 1 setting can be registered
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 colourEVF
Dot count	3.69 Million dots
Coverage (Vertical/Horizontal)	Approx. 100%
Magnification	Approx. 0.76x [5]
Eyepoint	Approx. 23mm (from eyepiece lens centre)
DioptrCorrection	-4 to +2 m-1 (dioptr)
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, 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 customisedbutton
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 ColourTone 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 leveldisplay (4) No info (5) Quick Control Screen
FLASH	
Modes	E-TTL II Auto Flash, Metered Manual
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 Speedliteflashes
Flash Exposure Bracketing	Yes, with compatible External Flash
Flash Exposure Lock	Yes
Second Curtain Synchronisation	Yes via Speedlite
Hot Shoe/PC terminal	Yes/No
External Flash Compatibility	E-TTL II with EX 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, Manual
Picture Styles	Auto, Standard, Portrait, Landscape, Fine Detail, Neutral, Faithful, Monochrome, User Defined (x3)
ColourSpace	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) Resize to M, S1, S2 Cropping of images (JPEG/HEIF) -Aspect ratios 3:2, 4:3, 16:9, 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
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 240 RAW images [6][7] Max. Approx. 20fps. with Electronic shutter

Interval timer	Built in
FILE TYPE -STILLS	
Still Image Type	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 Exif2.31 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	JPEG / HEIF 3:2 ratio (L, RAW, C-RAW) 5472 x 3648, (M) 3648 x 2432, (S1) 2736 x 1824, (S2) 2400 x 1600 1.6x (crop) (L) 3408 x 2272, (S2) 2400 x 1600 4:3 ratio (L) 7280 x 5464, (M) 5152 x 3872, (S1) 3712 x 2784, (S2) 2112 x 1600 16:9 ratio (L) 5472 x 3072, (M) 3648 x 2048, (S1) 2736 x 1536, (S2) 2400 x 1344 1:1 ratio (L) 3648 x 3648, (M) 2432 x 2432, (S1) 1824 x 1824, (S2) 1600 x 1600
Folders	New folders can be manually created, named and selected
File Numbering	(1) Consecutive numbering (2) Auto reset (3) Manual reset
File naming	2 User presets
EOS MOVIE	
Movie Type	MP4 Video: 4K UHD, Full HD (16:9) ^{[8] [9]}
Movie Size	4K UHD (16:9) 3840 x 2160 (59.94, 50, 29.97, 25, 23.98fps) inter frame (IPB) 4K UHD Timelapse(16:9) 3840 x 2160 (29.97, 25fps) intra frame (All-I) Full HD (16:9) 1920 x 1080 (119.88, 100, 59.94, 50, 29.97, 25, 23.98fps) inter frame (IPB) ^[10] Full HD (16:9) 1920 x 1080 (29.97, 25fps) light inter frame, (IPB light) 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)
ColourSampling (Internal recording)	4K/ Full HD -YCbCr4:2:0 8-bit or YCbCr4:2:2 10bit
Canon Log	Yes, Canon Log 1
Movie Length	Max duration 29min 59sec. (excluding High Frame Rate movies). No 4GB file limit with exFATformatted SD card.
High Frame Rate Movie	Full HD at 100fps or 119.9fps ^[10] Recorded as 1/4-speed slow motion movie Single scene maximum recording up to 7min 29sec.
Frame Grab	8.3-megapixel JPEG/HEIF still image frame grab from 4K UHD movie possible (HEIF only possible when HDR PQ is set)
Bitrate/Mbps	MP4 H.264 Canon Log Off 4K (59.94p/50.00p): IPB Approx. 230 Mbps 4K (29.97p/25.00p/23.98p): IPB Approx. 120 Mbps 4K Timelapse(29.97, 25fps) All-I Approx. 470Mbps Full HD (119.88p/100.00p): IPB Approx. 120 Mbps ^[10] Full HD (59.94p/50.00p): IPB Approx. 60 Mbps Full HD (29.94p/25.00p/23.93p): IPB Approx. 30 Mbps Full HD (29.94p/25.00p): IPB Lite 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 (29.97p/25.00p/23.98p): IPB Approx. 170 Mbps 4K Timelapse(29.97, 25fps) All-I Approx. 470Mbps Full HD (119.88p/100.00p): IPB Approx. 180 Mbps ^[10] Full HD (59.94p/50.00p): IPB Approx. 90 Mbps Full HD (29.94p/25.00p/23.93p): IPB Approx. 45 Mbps Full HD (29.94p/25.00p): IPB Lite Approx. 28 Mbps Full HD Timelapse(29.97, 25fps) All-I Approx. 135Mbps
Microphone	Built-in stereo 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 (no recording to the card, camera screen shows images with shooting information)
HDMI Output	4K (UHD) 59.94p / 29.97p / 23.98p, Full HD 59.94p / 59.94i, 50.00p / 50.00i 480p 59.94p 576p 50p Uncompressed YCbCr4:2:2, 8-bit or 10-bit, sound output via HDMI is also possible
Focusing	Dual Pixel CMOS AF with Eye/Face Detection and Animal Tracking AF, Movie Servo AF Manual Focus (Peaking and Focus Guide available)
ISO	Auto: 100-6400, H: 204800 Manual: 100-25600, H: 204800

OTHER FEATURES	
Custom Functions	21 Custom Functions
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)
LCD Panel/Illumination	No/No
Water/Dust resistance	Yes ^[11]
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, 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, Folder, Card
Image Erase Protection	Erase protection of Single image, Folder or Card all found images (only during image search)
Self Timer	3 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	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
Firmware Update	Update possible by the user (Camera, Lens, External Speedlite, BLE remote control, Lens adapter)
INTERFACE	
Computer	SuperSpeed USB 3.1 Gen 2 USB C connector
Wi-Fi	Wireless LAN (IEEE802.11a/b/g/n) (2.4 GHz) ^[13] with Bluetooth 4.2 support. Features supported -EOS Utility, Smartphone, Upload to image.canon, Wireless printing
Other	HDMI micro out (Type D), External Microphone In (Stereo mini jack), Headphone socket (Stereo mini jack), E3-type terminal (remote control terminal)
DIRECT PRINT	
PictBridge	Not supported
STORAGE	



Type	2x SD/SDHC/SDXC and UHS-II
SUPPORTED OPERATING SYSTEM	
PC & Macintosh	Windows 8.1 and Windows 10 (tablet mode not supported) OS X v10.12, 10.13, 10.14,10.16
SOFTWARE	
Image Processing	Digital Photo Professional 4.12.4 or later, Digital Photo Professional Express mobile app (iPad only) (RAW Image Processing)
Other	EOS Utility 3.12.3 or later (incl. Remote Capture), Picture Style Editor, EOS Lens Registration Tool, EOS Web Service Registration Tool, Canon Camera Connect app, Mobile File Transfer app and image.canonapp (iOS/Android)
POWER SOURCE	
Batteries	Rechargeable Li-ion Battery LP-E6NH (supplied)/LP-E6N
Battery life	With LCD Approx. 510 shots (at 23°C) [12] With LCD Approx. 510 (at 0°C) With Viewfinder Approx. 380 shots (at 23°C) [12] With Viewfinder Approx. 380 (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 chassis, outer panels are polycarbonate resin with glass fiber
Operating Environment	1 –40 °C, 85% or less humidity
Dimensions (WxHxD)	138.4 .97.5 .88.4 mm
Weight (body only)	Approx. 598 g (680 g with card and battery)
ACCESSORIES	
Wireless File Transmitter	N/A
Lenses	All RF lenses (EF & EF-S via Lens adapters)
Lens adapters	Mount Adapter EF-EOS RControl Ring Mount Adapter EF-EOS RDrop-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 E3 type socket and Speedlite600EX II-RT, Infrared Remote RC-6, Wireless Remote Control BR-E1
Other	BG-R10 battery grip, GP-E2 GPS receiver (digital compass not supported), Stereo Microphone DM-E1 / DM-E100