

Clifton Cameras Product Specification

Canon EOS R5 Camera Full Spec

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	+/-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 100-51200 (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
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 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)
Dioptre Correction	-4 to +2 m-(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	8.01cm (3.15") Clear View LCD II, approx. 2.1million 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
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 / 1/250 ^m electronic 1 st curtain
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
Hot Shoe/PC terminal	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: 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)
Colour Space	sRGB and Adobe RGB
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, 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 or 20fps with electronic shutter speed maintained for 350 JPEG or 180 RAW images [6] [7]
Interval timer	Built in
FILE TYPE - STILLS	
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	Yes, any combination of RAW + JPEG or RAW + HEIF possible, including Dual Pixel RAW +JPEG/HEIF
Image Size	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 16:9 ratio (L) 8192x4608, (M1) 5808x3264, (S1) 4176x2344, (S2) 2400x1344 1:1 ratio (L) 5456x5456, (M1) 3872x3872, (S1) 2784x2784, (S2) 1600x1600
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: 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
Movie Size	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, 24, 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
Colour Sampling (Internal recording)	8K/ 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 exFAT formatted SD card. [9]
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.
Frame Grab	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

Bitrate/Mbps	<p>CRM:</p> <p>8k Raw (29.97p/25.00p/24.00p/23.98p): Approx. 2600 Mbps</p> <p>MOV: MP4 H.264 Canon Log off</p> <p>8K ALL-I (29.97p/25.00p/24.00p/23.98p): Approx. 300 Mbps</p> <p>8K IPB (29.97p/25.00p/24.00p/23.98p): Approx. 470 Mbps</p> <p>4K (119.9p / 100p): Approx. 1880 Mbps</p> <p>4K (59.94p/50.00p): ALL-I Approx. 940 Mbps</p> <p>4K (59.94p/50.00p): IPB Approx. 230 Mbps</p> <p>4K (29.97p/25.00p/24.00p/23.98p): ALL-I Approx. 470 Mbps</p> <p>4K (29.97p/25.00p/24.00p/23.98p): IPB Approx. 120 Mbps</p> <p>Full HD (59.94p/50.00p)/ALL-I: Approx. 180 Mbps</p> <p>Full HD (59.94p/50.00p)/IPB Approx. 60 Mbps</p> <p>Full HD (29.97p/25.00p/24.00p/23.98p)/ALL-I: Approx. 90 Mbps</p> <p>Full HD (29.97p/25.00p/24.00p/23.98p)/IPB: Approx. 30 Mbps</p> <p>Full HD (29.97p/25.00p)/IPB (Light): Approx. 12 Mbps</p> <p>8K Time Lapse (29.97p/25.00p) ALL-I: Approx. 1300 Mbps</p> <p>4K Time Lapse (29.97p/25.00p) ALL-I: Approx. 470 Mbps</p> <p>Full HD Time Lapse (29.97p/25.00p) ALL-I: Approx. 90 Mbps</p> <p>MOV: MP4 H.265 Canon Log on</p> <p>8K ALL-I (29.97p/25.00p/24.00p/23.98p): Approx. 1300 Mbps</p> <p>8K IPB (29.97p/25.00p/24.00p/23.98p): Approx. 680 Mbps</p> <p>4K (119.9p / 100p): Approx. 1880 Mbps</p> <p>4K (59.94p/50.00p): ALL-I Approx. 1000 Mbps</p> <p>4K (59.94p/50.00p): IPB Approx. 340 Mbps</p> <p>4K (29.97p/25.00p/24.00p/23.98p): ALL-I Approx. 470 Mbps</p> <p>4K (29.97p/25.00p/24.00p/23.98p): IPB Approx. 170 Mbps</p> <p>Full HD (59.94p/50.00p)/ALL-I: Approx. 230 Mbps</p> <p>Full HD (59.94p/50.00p)/IPB Approx. 90 Mbps</p> <p>Full HD (29.97p/25.00p/24.00p/23.98p)/ALL-I: Approx. 135 Mbps</p> <p>Full HD (29.97p/25.00p/24.00p/23.98p)/IPB: Approx. 45 Mbps</p> <p>Full HD (29.97p/25.00p)/IPB (Light): Approx. 28 Mbps</p> <p>8K Time Lapse (29.97p/25.00p) ALL-I: Approx. 1300 Mbps</p> <p>4K Time Lapse (29.97p/25.00p) ALL-I: Approx. 470 Mbps</p> <p>Full HD Time Lapse (29.97p/25.00p) ALL-I: Approx. 135 Mbps</p>
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)
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
Focusing	Dual Pixel CMOS AF II with Eye/Face Detection and Animal Tracking AF, Movie Servo AF Manual Focus (Peaking and Focus Guide available)
ISO for Movies	Auto: 100-6400, H: 51200 Manual: 100-25600, H1: 51200,
OTHER FEATURES	
Custom Functions	23 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	Yes/Yes
Water/Dust resistance	Yes [10]
Voice Memo	Yes
Intelligent Orientation Sensor	Yes
Playback zoom	1.5x - 10x in 15 steps
Display Formats	<p>(1) Single image</p> <p>(2) Single image with information (2 levels)</p> <p>Basic - Shooting information (shutter speed, aperture, ISO and Image quality)</p> <p>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</p> <p>(3) 4 image index</p> <p>(4) 9 image index</p> <p>(5) 36 image index</p> <p>(6) 100 image index</p> <p>(7) Jump Display (1, 10 or 100 images, Date, Folder, Movies, Stills, Protected images, Rating)</p> <p>(8) Movie edit</p> <p>(9) RAW processing</p> <p>(10) Rating</p>
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	2 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, WFT, External Speedlite, BLE remote control, Lens adapter)
INTERFACE	
Computer	SuperSpeed USB 3.1 Gen 2 USB C connector
Wi-Fi ^[12]	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
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
DIRECT PRINT	
PictBridge	Not supported
STORAGE	
Type	1x CFexpress type B 1x 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, 10.14,10.15

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.canonapp (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



cliftoncameras

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