

TECHNICAL SPECIFICATIONS

EOS R5C

IMAGE SENSOR

Image Sensor Type

3:2 Full Frame CMOS sensor (36 x 24mm)

System

RGB primary colour filter (Bayer array)

Sensor Modes

Full Frame (8K) / Super 35mm (Crop) / Super 16mm (Crop)

Total Pixels

Approx. 47.10 megapixels

Effective Pixels

Video Mode:
Approx. 35.40 megapixels (8192 x 4320): When resolution is 8192 x 4320, 4096 x 2160, or 2048 x 1080
Approx. 33.20 megapixels (7680 x 4320): When resolution is 7680 x 4320, 3840 x 2160, or 1920 x 1080

Effective Sensor Screen Size

Photo Mode:
Approx. 45 megapixels (8192 x 5464)
36.0 x 19.0 mm (40.7 mm on the diagonal): When resolution is 8192 x 4320, 4096 x 2160 or 2048 x 1080
33.8 x 19.0 mm (38.8 mm on the diagonal): When resolution is 7680 x 4320, 3840 x 2160, or 1920 x 1080

Dynamic Range

Canon Log 3: 1600% / 14 stops (at ISO 800)
Wide DR: 800% (at ISO 400)

IMAGE PROCESSOR

Image Processor Type

DIGIC X

LENS

Lens Mount

Canon RF mount
Compatible lenses: All RF lenses and EF lenses (includes EF-S lenses/EF cinema lenses)

Lens Magnification Factor

Full Frame:
Actual focal length x approx. 1.0

Super 35mm (Crop):
5952x3140, 4096x2160 or 2048x1080 resolution: Actual focal length x approx. 1.460
3840x2160, 1920x1080 or 1270x720 resolution: Actual focal length x approx. 1.534

Super 16mm (Crop):
In 2976x1570 or 2048x1080 resolution: Actual focal length x approx. 2.920
In 1920x1080 or 1270x720 resolution: Actual focal length x approx. 3.069
Yes

Peripheral Illumination Correction

Yes

Chromatic Aberration Correction

Distortion Correction

Yes, RF Mount lenses only

Diffraction Correction

Yes

ND Filter

No

Focus Control

Via lens, Browser Remote, Camera Connect or EOS Utility

Iris Control

1/2-stop, 1/3-stop or FINE control

Cooke/i technology Support

No

Anamorphic Lens Support

Yes, x2.0 / x1.8 / x1.3

Image Stabilization System

Yes, 5-axis Electronic IS. Coordinates with supported lenses featuring optical-IS for optimal performance

RECORDING

Internal Recording Media

1x CFexpress card (CFexpress 2.0 Type B)
1x SD card (SD/SDHC/SDXC)
(SD Card recording available at bitrates up to 650 Mbps)

Recording Time^[1]

Cinema RAW Light LT: 8192 x 4320 1070 Mbps: 63 Mins
Cinema RAW Light ST: 8192 x 4320: 1650 Mbps 41 Mins
Cinema RAW Light HQ: 5952 x 3140: 1770 Mbps 38 Mins
XF-AVC / MXF: 4096x2160: 410 Mbps 156 Mins
MP4 (HEVC): 4096x2160: 225 Mbps 285 Mins
MP4 (H.264): 4096x2160: 150 Mbps 428 Mins

Recording Formats

Video Mode:
Cinema RAW Light (CRM): 12-bit RAW
XF-AVC (MXF): 4:2:2 10-bit (ALL-I or Long GOP)
HEVC (MP4): 4:2:2 10-bit / 4:2:0 10-bit
H.264 (MP4): 4:2:0 8-bit

Relay Recording

Yes

Double Slot Recording

Yes

Simultaneous Recording

System Frequency Frame Rates

Cinema RAW Light

Yes, in Dual Recording Mode
Options Available: [CRL / XF-AVC / MP4] [All-I / Long GOP] [4:2:2 10-bit / 4:2:0 10-bit / 4:2:0 8-bit] [8K / 4K / 2K / FHD]

59.94Hz mode (59.94P / 59.94i / 29.97P / 23.98P)
50.00Hz mode (50.00P / 50.00i / 25.00P)
24.00 Hz mode (24.00P)

12-bit Cinema RAW Light LT:
8192x 4320 / 50P / 2140 Mbps: approx. 31 Mins
8192x 4320 / 25P / 1070 Mbps: approx. 63 Mins
5952x 3140 / 50P / 1140 Mbps: approx. 59 Mins
5952x 3140 / 25P / 556 Mbps: approx. 122 Mins
2976x 1570 / 50P / 287 Mbps: approx. 237 Mins
2976x 1570 / 25P / 144 Mbps: approx. 474 Mins

12-bit Cinema RAW Light ST:
8192x 4320 / 25P / 1650 Mbps: approx. 41 Mins
5952x 3140 / 50P / 1750 Mbps: approx. 39 Mins
5952x 3140 / 25P / 871 Mbps: approx. 78 Mins
2976x 1570 / 50P / 441 Mbps: approx. 154 Mins
2976x 1570 / 25P / 221 Mbps: approx. 308 Mins

12-bit Cinema RAW Light HQ:
5952x 3140 / 25P / 1770 Mbps: approx. 38 Mins
2976x 1570 / 50P / 896 Mbps: approx. 76 Mins
2976x 1570 / 25P / 448 Mbps: approx. 152 Mins
4:2:2 10-bit (Intra-frame):^[5]
4096x2160 or 3840x2160 / 50P / 810 Mbps: approx. 79 Mins
4096x2160 or 3840x2160 / 25P / 410 Mbps: approx. 156 Mins
2048x1080 or 1920x1080 / 50P or 50i / 310 Mbps: approx. 207 Mins
2048x1080 or 1920x1080 / 25P / 160 Mbps: approx. 401 Mins

4:2:2 10-bit (Long GOP):
4096x2160 or 3840x2160 / 50P / 260 Mbps: approx. 246 Mins
4096x2160 or 3840x2160 / 25P / 160 Mbps: approx. 401 Mins
2048x1080 or 1920x1080 / 50P or 50i / 50 Mbps: approx. 1284 Mins
2048x1080 or 1920x1080 / 25P / 50 Mbps: approx. 1284 Mins

XF-AVC Recording Bit Rate/Sampling (PAL)

MP4 Recording Bit Rate/Sampling (PAL)

HEVC 4:2:2 10-bit (Long GOP):^[4]
8192x4320 or 7680x4320 / 25P / 540 Mbps: approx. 118 Mins
4096x2160 or 3840x2160 / 50P / 225 Mbps: approx. 285 Mins
4096x2160 or 3840x2160 / 25P / 135 Mbps: approx. 475 Mins
2048x1080 or 1920x1080 / 50P or 25P / 50 Mbps: approx. 1284 Mins

HEVC 4:2:0 10-bit (Long GOP):
8192x4320 or 7680x4320 / 25P / 400 Mbps: approx. 160 Mins
4096x2160 or 3840x2160 / 50P / 170 Mbps: approx. 377 Mins
4096x2160 or 3840x2160 / 25P / 100 Mbps: approx. 642 Mins
2048x1080 or 1920x1080 / 50P or 25P / 35 Mbps: approx. 1834 Mins

H.264 4:2:0 8-bit (Long GOP):
4096x2160 or 3840x2160 / 50P or 25P / 150 Mbps: approx. 428 Mins
2048x1080 or 1920x1080 / 50P or 25P / 35 Mbps: approx. 1834 Mins

XF-AVC 4:2:0 8-bit (Long GOP)
2048 x 1080 or 1920 x 1080 / 50P / 35 Mbps
2048 x 1080 or 1920 x 1080 / 25P / 24 Mbps

H.264 MP4 4:2:0 8-bit (Long GOP)
2048 x 1080 or 1920 x 1080 / 50P or 25P / 9 Mbps
8K recording up to 30FPS (60FPS with external power)
4K / FHD recording: up to 120FPS
Audio recording and auto-focus options available.

Yes

Yes

Yes, 3 seconds (XF-AVC or MP4 recording only)



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TECHNICAL SPECIFICATIONS

EOS R5C

Photo Recording Size	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	User Assignable Buttons	13 Assignable buttons (numbered) on camera body. In excess of 80 options via the menu
SYSTEM		MISCELLANEOUS	
Display Type	3.2 inch 3:2 LCD Touch Panel	Tally Lamp	Yes
Display Resolution	2.1 million dots	Custom Dial	3x Electronic Dials + Multi-controller
Display Touch Screen Functions	Focus point selection, Shooting setting adjust, Start/Stop recording (activated via Menu)		
OSD Vertical Shooting	Yes, 90-degree rotation	EXPOSURE	
Wave Form Monitor	Yes, LCD, EVF or HDMI	Exposure Metering	Video Mode: Standard, Backlight, Spotlight
False Colour Display	Yes, LCD, EVF or HDMI (Use of viewing LUT will affect false colour display)		
Colour Bars	SMPTE, EBU and ARIB	Exposure Compensation	Photo Mode: Evaluative, Partial, Spot, Centre Spot, AF-point Linked, Centre weighted average
Peaking	Peaking 1, Peaking 2 (Colour, Gain, Frequency customisable)	Auto Exposure Mode	Yes
Zebra	Level 1; Level 2; Both Output via HDMI: Yes	Push Auto Iris	Yes (Video mode: Auto Iris / ISO)
Markers	On/Off selectable: centre, horizontal, grid, aspect, safety zone, rectangular and user marker. Colour selectable, yellow, blue, green, red, black, grey or white.	Exposure Lock	Yes
		Auto Gain Control Setting	Yes
		ISO Sensitivity	Video Mode: ISO 100 to ISO 25,600 / 102,400* (increments of 1 or 1/3 stop) * When the sensitivity is expanded
EVF			
Built In EVF	0.5-inch OLED colour EVF, 5.76 million dots	Auto Focus System	Photo Mode: ISO 100 to ISO 51,200 / 102,400* (increments of 1 or 1/3 stop) * When the sensitivity is expanded
Optional EVF Accessory	N/A		Video Mode: Dual Pixel CMOS AF with Eye AF and EOS iTR AF X
INPUTS / OUTPUTS			
Audio In	1x 3.5mm mic input 1x Built-in mono microphone (XLR input available via TASCAM CA-XLR2d-C accessory)	AF Frame Sizes	Photo Mode: Dual Pixel CMOS AF II Large; size equivalent to approx. 20% (vertical) x 25% (horizontal) of the image display range Small; size equivalent to approx. 20% (vertical) x 8% (horizontal) of the image display range Whole Area; size equivalent to approx. 80% of sensor
Headphone Output	1x 3.5 mm stereo output	Auto Focus Modes	One-Shot AF, Continuous AF, Continuous AF: Only Near Focus
Video Monitor Output	No	Face Detection AF	Face Priority, Face Only, Eye AF
HDMI	1x micro-HDMI (8K RAW output available) ⁽⁵⁾	Focus Guide	For manual focus assist with compatible Canon RF mount, EF mount, Cine Servo Lenses
USB	1x USB-C (3.2 Gen1) for power, charging and communication (UVC Video output / Content Transfer Mobile App)	Gain Setting	-6 dB to 42 dB / 54 dB* (Normal or Fine increments) * When the sensitivity is expanded
SDI Output	No		
Time Code	1x DIN 1.0/2.3 (Input/Output)	SHUTTER	
Genlock	No	Control Modes	Video Mode: Off; Speed; Angle; Clear Scan; Slow
Sync	1x Flash Sync		
DC Output	No	Shutter Speed	Photo Mode: Mechanical, Elec. 1st-curtain, Electronic Video Mode: 1 sec to 1/2000 depending on frame rate and Shutter Control Mode, 39 setting options
DC Input	Yes, via DR-E6C DC Coupler		
Remote Control Terminal	1x N3-type terminal	Shutter Angle	Photo Mode: 30-1/8000 sec (1/2 or 1/3 stop increments) Bulb (Total shutter speed range. Available range varies by shooting mode)
Wireless Control Terminal	Available via WFT-R10 Accessory	Slow Shutter SLs	11.25° to 360° depending on frame rate 1/3, 1/4, 1/6, 1/8, 1/12, 1/15, 1/25, 1/30 depending on frame rate
Lens Terminal	No	Clear Scan	24.00 Hz ⁽⁸⁾ to 250.40 Hz
Ethernet Terminal	Available via WFT-R10 Accessory		
IP Streaming FTP	Yes, available via WFT-R10 Accessory Protocol: UDP, RTP and RTP+FEC	CUSTOM PICTURE	
Use LUT Input	Yes, in-built LUTs/View Assist available for LCD/EVF/HDMI Monitoring. Custom LUTs can be applied directly to internal recordings via Look File function (compatible with 17 or 33 grid .cube files).	Stored Configurations	Video Mode: C1: BT.709 Wide DR (BT.709 Gamut) C2: Canon Log 3 (Cinema Gamut) C3: PQ (BT.2020 Gamut) C4: HLG (BT.2020 Gamut) C5: BT.709 Standard (BT.709 Gamut) C6: EOS Standard (BT.709 Gamut) C7: EOS Neutral (BT.709 Gamut) USER8 to USER20 (Wide DR / BT.709 Gamut)
Video Connector	No		
Default Function Button Settings	1. One-Shot AF 2. Magnification 3. DISP 4. Menu 5. Push Auto Iris 6. AF lock 7. Assignable Button Menu 8. Display Panel Info 9. Key Lock 10. (Unassigned) 11. FUNC 12. (Unassigned) 13. Set White Balance	Colour Matrix	Photo Mode: Auto / Standard / Portrait / Landscape / Fine Detail / Neutral / Faithful / Monochrome / User Defined (x3)
		Master Pedestal	CUSTOM PICTURE: Colour Matrix Phase, Gain and RGB adjustment, in tandem with Gamma selection -50 to +50



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EOS R5

Master Black	Adjustable for each channel RGB -50 to +50 plus Master Black -50 to +50	Accessories Optional	Canon Battery Pack LP-E6NH/LP-E6N//LP-E6
Black Gamma	Adjustable Level -50 to +50, Range -20 to +50 and Point -20 to +50		Canon Battery Charger LC-E6
Low Key Saturation	Adjustable: -50 to +50		Canon Battery Grip BG-R10
Knee	Point -50 to +109, Slope -35 to +50, Saturation -10 to +10		Canon DC Coupler DR-E6C
Sharpness	Adjustment for Level, H Detail Freq., Coring, HV Detail Balance, Limit, Select, Knee Aperture and Level dependent sharpness		Canon AC Adapter CA-946
Noise Reduction	Off, On - Three Options: Automatic (ON/OFF) / Spatial Filter (1-12) / Frame Correlation (1-3)		Canon USB Power Adapter PD-E1
Skin Detail	Off, Low, Middle, High / Hue, Chroma, Area, Luminance, 32 steps		Canon Wireless File Transmitter WFT-R10
Selective Noise Reduction	Off, Low, Middle, High / Hue, Chroma, Area, Luminance,		Canon Interface Cable IFC-100U/IFC-400U
Colour Matrix	Phase, Gain and RGB adjustment, in tandem with Gamma selection		Canon Shoulder Strap SS-1200
White Balance	AWB, USER setting 01 (setting range: 2000K to 15000K/-20CC to +20CC), daylight, tungsten, settings (A/B)		Canon GPS Receiver GP-E2
Colour Correction	Area selection / area revision of two areas		Canon RF lenses, EF lenses, EF cinema lenses, and accessories designed for these lenses
Setup Level	-50 to +50 On/Off		Canon Mount Adapter EF-EOS R
WI-FI & GPS SPECIFICATIONS			Canon Control Ring Mount Adapter EF-EOS R
WiFi	Video Mode: Requires WFT-R10 Accessory Supports Browser Remote / Content Transfer Mobile / IP Streaming	Accessories Third Party	Canon Drop-In Filter Mount Adapter EF-EOS R (w/ drop-in variable ND filter A and circular polarizing filter A)
	Photo Mode: Built-in Wireless LAN (IEEE802.11a/b/g/n/ac) (5Ghz /2.4 GHz), with Bluetooth 4.2 support Supports EOS Utility / Camera Connect / image.canon	POWER SOURCE	Canon Mount Adapter EF-EOS R 0.71x
GPS	Requires GP-E2 Accessory Latitude/Longitude/Elevation, Coordinated Universal Time (UTC)	Power Supply Battery	Canon Extender RF1.4x
		Power Supply Mains	Canon Extender RF2x
WHITE BALANCE		Power Consumption	Canon Remote Controller RC-6
White Balance Auto	Yes	Recording Time	Canon Wireless Remote Controller BR-E1
White Balance Preset	Video Mode: Daylight (5400K), Tungsten (3200K), Kelvin (2000K-15000K, 100K intervals), Set A, Set B		Canon Remote Switch RS-80N3
	Photo Mode: AWB, Daylight, Shade, Cloudy, Tungsten, Fluorescent, Flash, Kelvin, Custom	PHYSICAL SPECIFICATIONS	Canon Timer Remote Controller TC-80N3
White Balance Matching		Dimensions Main Body Only	Canon Directional Stereo Microphone DM-E1 / DM-E1D
White Balance Shift	Video Mode: -9 to +9 (Daylight and Tungsten only)	Weight Body Only	Canon Stereo Microphone DM-E100
	Photo Mode: -9 to +9 (Blue/Amber) -9 to +9 (Magenta/Green)	Weight Accessories	TASCAM CA-XLR2d-C XLR Adapter
BLACK BALANCE		Operating Temperature Range	
Black Balance Adjustment	Yes	Footnote :	
TIME CODE		^[1] Based on 25P recording on a 512GB card	
Count Up System	Regen, RecRun, Free Run, External, Hold (Drop frame available for some frame rates)	^[2] RAW / C-Raw / Dual Pixel RAW files are 14-bit with Mechanical shutter / Electronic 1st Curtain, 13-bit A/D conversion with H+ mode and 12-bit A/D conversion with Electronic shutter	
Start Value Setting	"00:00:00:00", Set/Reset selectable	^[3] 10-bit HEIF images in PQ HDR mode	
AUDIO		^[4] Recording time based on 512GB card	
Audio Recording Format	Cinema RAW Light or XF-AVC: Linear PCM (24-bit / 48 kHz, 4 channels) MP4: MPEG-2 AAC LC (16-bit, 48 kHz, 2-channel) / Linear PCM (16-bit, 48 kHz, 4-channel)	^[5] ProRes RAW Recording with Atomos Ninja V+ external recorder	
ACCESSORIES		^[6] The frequency will differ depending on the frame rate setting.	
Accessories Supplied	Battery Pack LP-E6NH Battery Charger LC-E6 Shoulder Strap USB-C Cable Cable Protector AC Cable		



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English edition
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