

# TECHNICAL SPECIFICATIONS

# EOS R5C

## IMAGE SENSOR

<b>Image Sensor Type System</b>	3:2 Full Frame CMOS sensor (36 x 24mm) RGB primary colour filter (Bayer array)
<b>Sensor Modes</b>	Full Frame (8K) / Super 35mm (Crop) / Super 16mm (Crop)
<b>Total Pixels</b>	Approx. 47.10 megapixels
<b>Effective Pixels</b>	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  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
<b>Effective Sensor Screen Size</b>	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
<b>Dynamic Range</b>	Canon Log 3: 1600% / 14 stops (at ISO 800) Wide DR: 800% (at ISO 400)

## IMAGE PROCESSOR

<b>Image Processor Type</b>	DIGIC X
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## LENS

<b>Lens Mount</b>	Canon RF mount Compatible lenses: All RF lenses and EF lenses (includes EF-S lenses/EF cinema lenses)
<b>Lens Magnification Factor</b>	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
<b>Peripheral Illumination Correction</b>	Yes
<b>Chromatic Aberration Correction</b>	Yes
<b>Distortion Correction</b>	Yes, RF Mount lenses only
<b>Diffraction Correction</b>	Yes
<b>ND Filter</b>	No
<b>Focus Control</b>	Via lens, Browser Remote, Camera Connect or EOS Utility
<b>Iris Control</b>	1/2-stop, 1/3-stop or FINE control
<b>Cooke/i technology Support</b>	No
<b>Anamorphic Lens Support</b>	Yes, x2.0 / x1.8 / x1.3
<b>Image Stabilization System</b>	Yes, 5-axis Electronic IS. Coordinates with supported lenses featuring optical-IS for optimal performance

## RECORDING

<b>Internal Recording Media</b>	1x CFexpress card (CFexpress 2.0 Type B) 1x SD card (SD/SDHC/SDXC) (SD Card recording available at bitrates up to 650 Mbps)
<b>Recording Time<sup>[1]</sup></b>	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
<b>Recording Formats</b>	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  Photo Mode: RAW / C-RAW / Dual Pixel RAW <sup>[1]</sup> / HEIF <sup>[2]</sup> / JPEG
<b>Relay Recording</b>	Yes
<b>Double Slot Recording</b>	Yes

## Simultaneous Recording

<b>System Frequency Frame Rates</b>	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)
<b>Cinema RAW Light</b>	12-bit Cinema RAW Light LT: 8192 x 4320 / 50P / 2140 Mbps: approx. 31 Mins 8192 x 4320 / 25P / 1070 Mbps: approx. 63 Mins 5952 x 3140 / 50P / 1140 Mbps: approx. 59 Mins 5952 x 3140 / 25P / 556 Mbps: approx. 122 Mins 2976 x 1570 / 50P / 287 Mbps: approx. 237 Mins 2976 x 1570 / 25P / 144 Mbps: approx. 474 Mins  12-bit Cinema RAW Light ST: 8192 x 4320 / 25P / 1650 Mbps: approx. 41 Mins 5952 x 3140 / 50P / 1750 Mbps: approx. 39 Mins 5952 x 3140 / 25P / 871 Mbps: approx. 78 Mins 2976 x 1570 / 50P / 441 Mbps: approx. 154 Mins 2976 x 1570 / 25P / 221 Mbps: approx. 308 Mins

## XF-AVC Recording Bit Rate/Sampling (PAL)

<b>MP4 Recording Bit Rate/Sampling (PAL)</b>	4:2:2 10-bit (Intra-frame): <sup>[5]</sup> 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  HEVC 4:2:2 10-bit (Long GOP): <sup>[4]</sup> 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
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## MP4 Recording Bit Rate/Sampling (PAL)

<b>Proxy Recording Bit Rate/Sampling (PAL)</b>	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
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## Slow Fast Motion

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

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<b>Master Black</b>	Adjustable for each channel RGB -50 to +50 plus Master Black -50 to +50
<b>Black Gamma</b>	Adjustable Level -50 to +50, Range -20 to +50 and Point -20 to +50
<b>Low Key Saturation</b>	Adjustable: -50 to +50
<b>Knee</b>	Point -50 to +109, Slope -35 to +50, Saturation -10 to +10
<b>Sharpness</b>	Adjustment for Level, H Detail Freq., Coring, HV Detail Balance, Limit, Select, Knee Aperture and Level dependent sharpness
<b>Noise Reduction</b>	Off, On - Three Options: Automatic (ON/OFF) / Spatial Filter (1-12) / Frame Correlation (1-3)
<b>Skin Detail</b>	Off, Low, Middle, High / Hue, Chroma, Area, Luminance, 32 steps
<b>Selective Noise Reduction</b>	Off, Low, Middle, High / Hue, Chroma, Area, Luminance.
<b>Colour Matrix</b>	Phase, Gain and RGB adjustment, in tandem with Gamma selection
<b>White Balance</b>	AWB, USER setting 01 (setting range: 2000K to 15000K / -20CC to +20CC), daylight, tungsten, settings (A/B)
<b>Colour Correction</b>	Area selection / area revision of two areas
<b>Setup Level</b>	-50 to +50 On/Off

## WI-FI & GPS SPECIFICATIONS

<b>WiFi</b>	Video Mode: Requires WFT-R10 Accessory Supports Browser Remote / Content Transfer Mobile / IP Streaming
	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
<b>GPS</b>	Requires GP-E2 Accessory Latitude/Longitude/Elevation, Coordinated Universal Time (UTC)

## WHITE BALANCE

<b>White Balance Auto</b>	Yes
<b>White Balance Preset</b>	Video Mode: Daylight (5400K), Tungsten (3200K), Kelvin (2000K-15000K, 100K intervals), Set A, Set B
	Photo Mode: AWB, Daylight, Shade, Cloudy, Tungsten, Fluorescent, Flash, Kelvin, Custom
<b>White Balance Matching</b>	Video Mode: -9 to +9 (Daylight and Tungsten only)
<b>White Balance Shift</b>	Photo Mode: -9 to +9 (Blue/Amber) -9 to +9 (Magenta/Green)

## BLACK BALANCE

<b>Black Balance Adjustment</b>	Yes
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## TIME CODE

<b>Count Up System</b>	Regen, RecRun, Free Run, External, Hold (Drop frame available for some frame rates)
<b>Start Value Setting</b>	"00:00:00:00", Set/Reset selectable

## AUDIO

<b>Audio Recording Format</b>	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)
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## ACCESSORIES

<b>Accessories Supplied</b>	Battery Pack LP-E6NH Battery Charger LC-E6 Shoulder Strap USB-C Cable Cable Protector AC Cable
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## Accessories Optional

Canon Battery Pack LP-E6NH/LP-E6N//LP-E6
Canon Battery Charger LC-E6
Canon Battery Grip BG-R10
Canon DC Coupler DR-E6C
Canon AC Adapter CA-946
Canon USB Power Adapter PD-E1
Canon Wireless File Transmitter WFT-R10
Canon Interface Cable IFC-100U/IFC-400U
Canon Shoulder Strap SS-1200
Canon GPS Receiver GP-E2
Canon RF lenses, EF lenses, EF cinema lenses, and accessories designed for these lenses
Canon Mount Adapter EF-EOS R
Canon Control Ring Mount Adapter EF-EOS R
Canon Drop-In Filter Mount Adapter EF-EOS R (w/ drop-in variable ND filter A and circular polarizing filter A)
Canon Mount Adapter EF-EOS R 0.71x
Canon Extender RF1.4x
Canon Extender RF2x
Canon Remote Controller RC-6
Canon Wireless Remote Controller BR-E1
Canon Remote Switch RS-80N3
Canon Timer Remote Controller TC-80N3
Canon Directional Stereo Microphone DM-E1 / DM-E1D
Canon Stereo Microphone DM-E100
TASCAM CA-XLR2d-C XLR Adapter

## Accessories Third Party

## POWER SOURCE

<b>Power Supply Battery</b>	LP-E6NH Battery Pack (Supplied) / LP-E6N and LP-E6 (Compatible)
<b>Power Supply Mains</b>	USB-C Power Adapter PD-E1 DC Coupler DR-E6C AC Adapter CA-946
<b>Power Consumption</b>	8K RAW 25P (10.5W) 8K MP4 25P (11.2W) 4K HEVC 50P (12.9W) 4K XF-AVC 50P (13.3W)
<b>Recording Time</b>	With supplied LP-E6NH battery pack: 8K RAW 25P: 50 Mins 8K MP4 25P: 45 Mins 4K HEVC 50P: 40 Mins 4K XF-AVC 50P: 35 Mins

## PHYSICAL SPECIFICATIONS

<b>Dimensions Main Body Only</b>	approx. 142 x 101 x 111 mm
<b>Weight Body Only</b>	approx. 680g
<b>Weight Accessories</b>	approx. 770g (LP-E6NH, CFexpress Card, SD Card)
<b>Operating Temperature Range</b>	approx. 0 to 40°C, (85% relative humidity) approx. -5 to 45°C, (60% relative humidity)

## Footnote :

- <sup>[1]</sup> Based on 25P recording on a 512GB card
- <sup>[2]</sup> 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
- <sup>[3]</sup> 10-bit HEIF images in PQ HDR mode
- <sup>[4]</sup> Recording time based on 512GB card
- <sup>[5]</sup> ProRes RAW Recording with Atomos Ninja V+ external recorder
- <sup>[6]</sup> The frequency will differ depending on the frame rate setting.

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