EOS R5C

Digital Cinema Camera

Advanced
User Guide
(PHOTO edition)

Specifications

Type

Lens mount: Canon RF mount
Compatible lenses: Canon RF lens group
 * Using mount adapter EF-EOS R: Canon EF or EF-S lenses (excluding EF-M lenses)
Lens focal length: Same as the focal length indicated on the lens
 * Using EF-S lenses: Approx. 1.6 times the indicated focal length

Image sensor

Type: CMOS sensor

Screen size	Approx. 36.0×24.0 mm
Effective pixels[*1][*2]	Max. approx. 45.0 megapixels
Dual Pixel CMOS AF	Supported

 * 1: Rounded to the nearest 100,000.
 * 2: Using RF or EF lenses. The effective pixel count may be lower with certain lenses and image processing.

Recording system

Image recording format: Compliant to Design rule for Camera File system 2.0 and Exif 2.31*
 * Supports time difference information

Image type and extension

Image type		Extension
Still photos	JPEG	JPG
	HEIF	HIF
	RAW	CR3
	Dual Pixel RAW	
	C-RAW	

Still photo recording

Still photo pixel count

Image quality		Recorded pixels				
		Aspect ratio				
		3:2	1.6x (crop)[*1]	1:1	4:3	16:9
JPEG HEIF	**L**	Approx. 44.8 megapixels (8192×5464)	Approx. 17.3 megapixels (5088×3392)	Approx. 29.8 megapixels (5456×5456)	Approx. 39.8 megapixels (7280×5464)	Approx. 37.7 megapixels (8192×4608)
	M	Approx. 22.5 megapixels (5808×3872)		Approx. 15.0 megapixels (3872×3872)	Approx. 19.9 megapixels (5152×3872)	Approx. 19.0 megapixels (5808×3264)
	S1	Approx. 11.6 megapixels (4176×2784)		Approx. 7.8 megapixels (2784×2784)	Approx. 10.3 megapixels (3712×2784)	Approx. 9.8 megapixels (4176×2344)
	S2	Approx. 3.8 megapixels (2400×1600)	Approx. 3.8 megapixels (2400×1600)	Approx. 2.6 megapixels (1600×1600)	Approx. 3.4 megapixels (2112×1600)	Approx. 3.2 megapixels (2400×1344)
RAW	**RAW** / **CRAW**	Approx. 44.8 megapixels (8192×5464)	Approx. 17.3 megapixels (5088×3392)	Approx. 44.8 megapixels (8192×5464)		

* Values for recorded pixels are rounded off to the nearest 100,000th.
* RAW images are generated at 3:2, with information added about the specified aspect ratio, and JPEG images are generated at the specified aspect ratio.
* 1: Angle of view of approx. 1.6 times the focal length.

Still photo file size / Number of possible shots / Maximum burst for continuous shooting

	Image quality	File size [Approx. MB]	Possible shots [Approx.][1]	Maximum burst [Approx.][5]		
				SD card[1]	SD card[1] [Hi-speed]	CFexpress card[2]
JPEG[4]	▲L	13.5	2240	190	350	350
	▲L	6.8	4450	260		350
	▲M	7.8	3860	320		350
	▲M	4.1	7330	290		350
	▲S1	4.7	6420	330		350
	▲S1	2.6	11360	330		350
	S2	1.8	16790	340		350
HEIF[3]	▲L	13.4	2240	190	280	280
	▲L	10.0	2970	210		330
	▲M	8.3	3580	310		310
	▲M	6.3	4730	350		360
	▲S1	5.1	5710	340		360
	▲S1	4.0	7330	360		350
	S2	1.8	14480	340		360
RAW[4]	RAW	45.4	670	66	87	180
	CRAW	21.9	1440	130	260	260
RAW+JPEG[4]	RAW + ▲L	45.4+13.5	520	64	79	160
	CRAW + ▲L	21.9+13.5	870	100	130	240
RAW+HEIF[3]	RAW + ▲L	45.4+13.4	480	61	74	90
	CRAW + ▲L	21.9+13.4	780	110	140	140

* 1: The number of possible shots and maximum burst (SD card) apply to a UHS-I compliant 32 GB SD card based on Canon testing standards. The number of possible shots and maximum burst (SD card [Hi-speed]) apply to a UHS-II compliant 32 GB SD card based on Canon testing standards.
* 2: The number of shots available and maximum burst (CFexpress card) apply to a 325 GB CFexpress card conforming to Canon testing standards.
* 3: Available when [**HDR PQ**] for HDR shooting is set to [**Enable**].
* 4: When [**HDR PQ**] for HDR shooting is set to [**Disable**].
* 5: With mechanical shutter or electronic 1st-curtain shutter, shot at approx. 12 fps.
* File size, number of possible shots, and maximum burst vary depending on shooting conditions (including 1.6x crop/aspect ratio, subject, memory card brand, ISO speed, Picture Style, and Custom Function).

Built-in and external microphones
Built-in microphone: Monaural microphone
External microphone: 3.5 mm diameter stereo mini jack

Recording media

Recording media:
CFexpress card
SD card
 * Compatible with UHS-II

Viewfinder

Type: OLED color electronic viewfinder
Screen size: 0.5 inch
Dot count: Approx. 5,760,000 dots
Magnification / angle of view: Approx. 0.76× / Approx. 35.5° (with 50 mm lens at infinity, $-1 \, \text{m}^{-1}$)
Coverage: Approx. 100% (at L image quality, an aspect ratio of 3:2, and approx. 23 mm eyepoint)
Eyepoint: Approx. 23 mm (at $-1 \, \text{m}^{-1}$ from eyepiece lens end)
Dioptric adjustment: Approx. -4.0 to $+2.0 \, \text{m}^{-1}$ (dpt)

Screen

Type: TFT color, liquid-crystal monitor
Screen size: 3.2 inch (Screen aspect ratio of 3:2)
Dot count: Approx. 2,100,000 dots
Angle of view: Approx. 170° vertically and horizontally
Coverage: Approx. 100% vertically and horizontally (at L image quality and an aspect ratio of 3:2)
Brightness adjustment: Possible (7 levels)
Color tone adjustment: Warm tone / Standard / Cool tone 1 / Cool tone 2
Touch-screen: Capacitive sensing

LCD panel

Type: Reflective memory LCD
Display format: Dot-matrix display
Dot count: 128×128 dots

HDMI output

HDMI video / audio output: HDMI micro OUT terminal (Type D) / CEC not supported
HDMI output resolution: Auto / 1080p

Autofocus

Focusing method: Dual Pixel CMOS AF

Focusing operation

	Still photo shooting
AF operation	One-Shot AF Servo AF (AI Focus AF) * Set automatically in A+ mode
Manual focus	Supported

Lens compatibility based on AF area: Refer to the Canon website

Number of AF zones available for automatic selection

AF area		Horizontal: Approx. 100%, Vertical: Approx. 100%
Number of AF zone	Still photos	Max. 1053 zones (39×27)

* May vary depending on settings.

Selectable positions for AF point

AF area		Horizontal: Approx. 90%, Vertical: Approx. 100%
Number of positions	Still photos	Max. 5940 positions (90×66)

* When selected using the Multi-controller.

Focusing brightness range (in still photo shooting): EV –6 to 20 (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

Exposure control

Metering functions under various shooting conditions

Item		Still photo shooting
Metering sensor		384 zone (24×16) metering using image sensor output signals
Metering mode	Evaluative metering	Yes
	Partial metering	Yes: (Approx. 6.1%) of the screen
	Spot metering	Yes: (Approx. 3.1%) of the screen
	Center-weighted average	Yes
Metering brightness range (At 23°C / 73°F, ISO 100)		EV –3 to 20

ISO speed (recommended exposure index) in still photo shooting
Manually set ISO speed in still photo shooting

Normal ISO speed	ISO 100–51200 (in 1/3-stop, 1-stop increments)
Expanded ISO speed (equivalent)	L (50) H (102400)

* For [![camera]: **Highlight tone priority**], the available ISO speed range is ISO 200 to 51200.
* Expanded ISO cannot be set for HDR mode or during HDR PQ shooting.

ISO speed range settings in still photo shooting

ISO speed range	ISO speed
Minimum	L (50)–51200 (in 1-stop increments)
Maximum	ISO 100–H (102400) (in 1-stop increments)

* Expanded ISO speeds are noted as being "equivalent" to these speeds.

ISO Auto range settings in still photo shooting

Auto range	ISO speed
Minimum	ISO 100–25600 (in 1-stop increments)
Maximum	ISO 200–51200 (in 1-stop increments)

ISO Auto details in still photo shooting

Shooting mode	No flash	Using flash
[A]⁺	ISO 100–12800	ISO 100–6400*3
P	ISO 100*1*2–51200*2	ISO 100*1*2–6400*2*3
Tv		
Av		
M		
B	ISO 400*4	ISO 400*4

* 1: ISO 200 when [📷 : **Highlight tone priority**] is set to [**Enable**] or [**Enhanced**].
* 2: Varies depending on [**Maximum**] and [**Minimum**] of [**Auto range**].
* 3: ISO 1600 when using a lens that is not compatible with "Variable control of maximum ISO Auto limit for E-TTL".
* 4: If outside the setting range, changed to the value most close to ISO 400.

Variable control of maximum ISO Auto limit for E-TTL: Supported

Shutter

Still photo shooting
Type: Electronically controlled focal-plane shutter
Shutter mode

Mechanical shutter	
Electronic 1st curtain	
Electronic shutter	

Shutter speed

When [Mechanical] or [Elec. 1st-curtain] is set	1/8000–30 sec., Bulb
When [Electronic] is set	1/8000–0.5 sec.

X-sync speed

Mechanical shutter	1/200 sec.
Elec. 1st-curtain	1/250 sec.

External flash

Sync contacts: Multi-function shoe: X-sync contact
 * Max. flash sync speed: 1/250 sec. with elec. 1st-curtain, 1/200 sec. with mechanical shutter.

Drive

Drive mode and continuous shooting speed

Drive modes	Mechanical shutter	Electronic 1st curtain	Electronic shutter
Single shooting	Yes	Yes	Yes
High-speed continuous shooting+	Max. approx. 12 shots/sec.		Max. approx. 20 shots/ sec. * Lenses other than EF-S lenses
High-speed continuous shooting	Max. approx. 6.0 shots/ sec.	Max. approx. 8.0 shots/ sec.	
Low-speed continuous shooting	Max. approx. 3.0 shots/sec.		
Self-timer:10 sec / remote control	Yes		
Self-timer:2 sec / remote control	Yes		

Playback

Item	Still photo
Magnify zoom display	1.5x–10x (15 levels)
AF point display	Yes
Grid display	Off / 3×3 / 6×4 / 3×3+diag
Rating	OFF / ★ to ★★★★★ Select images / Select range / All images in folder / All images on card / All found images
Image search	Search conditions Rating / Date / Folder / Protect / Type of file
Protect	Select images / Select range / All images in folder / Unprotect all images in folder / All images on card / Unprotect all images on card / All found images
In-camera RAW image processing	Supported
Resizing	Supported
Cropping	Supported

Print order (DPOF): Compliant with DPOF Version 1.1

Customization (C.Fn)

Custom Function: 22 Custom Functions are settable

External interface

Digital terminal
Terminal type: USB Type-C^{TM}
Transmission: SuperSpeed Plus USB (USB 3.1 Gen 2) equivalent
Applications:
For computer communication
For in-camera charging / powering the camera with USB Power Adapter PD-E1
HDMI output terminal: HDMI micro OUT terminal (Type D)
External microphone input terminal: Compatible with the 3.5 mm diameter stereo mini plug
Headphone terminal: Compatible with the 3.5 mm diameter stereo mini plug
Remote control terminal: N3 type terminal

Power source

Battery

Compatible battery packs	LP-E6NH/LP-E6N/LP-E6
Quantity used	1

USB battery charging and camera power: Using USB Power Adapter PD-E1

AC power source

AC adapter	CA-946
DC coupler	DR-E6C

Possible shots

Configuration	Shooting method	Battery	Temperature	Battery life (Approx. number of shots)	
				Smooth	Power saving
Camera body only	Screen	LP-E6NH	23°C / 73°F	320	490
			0°C / 32°F	310	470
	Viewfinder		23°C / 73°F	220	320
			0°C / 32°F	200	310
	Eco mode (Screen)		23°C / 73°F	550	700
Battery grip BG-R10 used	Screen	Two LP-E6NH batteries	23°C / 73°F	—	970
		One LP-E6NH battery	23°C / 73°F	—	480
	Viewfinder	Two LP-E6NH batteries	23°C / 73°F	—	640
Wireless File Transmitter WFT-R10 used	Screen	One LP-E6NH battery[*1]	23°C / 73°F	—	480
	Viewfinder	One LP-E6NH battery[*1]	23°C / 73°F	—	310

* With fully charged batteries
* 1: Used as a battery for the camera

Battery information

Remaining capacity	In 1% increments 5-level indicator
Number of shots	Supported
Recharge performance	3 levels
Battery registrations	Supported (up to 6)
Battery information	Serial number, remaining capacity when removed, date

Dimensions and weight

Dimensions

(W)×(H)×(D)	Approx. 142×101×111 mm
(W)×(H)×(D)	Approx. 5.6×4.0×4.4 in.

* Excluding protrusions.

Weight

Body (including battery and memory card)	Approx. 770 g	Approx. 1.7 lb.
Body only	Approx. 680 g	Approx. 1.5 lb.

* Weighed without body cap.
* With a CFexpress card and an SD card.

Operating environment

Operating temperature: 0–+40°C / 32–104°F
Operating humidity: 85% or less

Wi-Fi (Wireless LAN) communication

Compliance standards

Wi-Fi compliance standards	Transmission method	Maximum link speed
IEEE802.11b	DS-SS modulation	11 Mbps
IEEE802.11g	OFDM modulation	54 Mbps
IEEE802.11n		72.2 Mbps
IEEE802.11a		54 Mbps
IEEE802.11ac		86.7/200/433.3 Mbps

Transmission frequency (Center frequency)
2.4 GHz band

Frequency	2412 to 2462 MHz
Channels	1 to 11 ch

5 GHz band

Frequency	5180 to 5825 MHz
Channels	36 to 165 ch

* Specifications vary by country/region.

Authentication and data encryption methods

Connection method	Authentication	Encryption
Camera access point	WPA2-PSK	AES
	Open	Disable
Infrastructure	Open	WEP
		Disable
	Shared key	WEP
	WPA-PSK	TKIP AES
	WPA2-PSK	

Bluetooth

Compliance standards: Bluetooth Specification Version 5.0 compliant (Bluetooth Low Energy technology)
Transmission method: GFSK modulation

- All data above is based on Canon testing standards and CIPA (Camera & Imaging Products Association) testing standards and guidelines.
- Dimensions and weight listed above are based on CIPA Guidelines (except weight for camera body only).
- Product specifications and appearance are subject to change without notice.
- If a problem occurs with a non-Canon lens attached to the camera, contact the respective lens manufacturer.