

EOS R8

TECHNICAL SPECIFICATIONS



Canon

EOS R8

Powerful. Portable.



COMPACT FULL FRAME MIRRORLESS

The EOS R8 combines high performance full frame capabilities into a 461g lightweight and compact body. Experience 24.2 megapixels high quality imaging, fast shooting speeds of up to 40 frames per second and full width 4K 60p videos.



HIGH PERFORMANCE VIDEO

Capture moments in motion with 4K 60p (6K oversampling) movies. The rich blurring of full frame combined with uncropped video, allows you to fully utilise the wide angle field of view. Create cinematic slow motion movies with Full HD 180p allowing playback 1/6th the speed.



INCREDIBLE LOW-LIGHT PERFORMANCE

Take advantage of the EOS R8's high sensitivity performance with normal ISO of 102400 for stills and 25600 for movies. Capture high quality images with minimal noise in dark setting or at night.



CAPTURE RARE AND FLEETING MOMENTS

The EOS R8 allows you to shoot RAW bursts of up to 30 frames per second with 0.5 second pre-shooting, helping you capture the decisive moment in sharp focus even before you've pressed the button. Capture scenes from 3 or 5 seconds before recording in video.



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FREEZE THE ACTION

Shoot decisive moments with high speed at up to 40 frames per second. The electronic shutter generates no shutter noise, making it useful when shooting wildlife, concerts and other situations where you want to stay quiet and unnoticed.



ADVANCED SUBJECT TRACKING

The EOS R8 supports tracking for a wide range of subjects, including humans, animals (dog, cat, bird, horse) and vehicles (car, motorcycle, train, aeroplane). It automatically responds to dynamically changing scenes, and can track subjects over the entire frame. The high performance subject tracking gives you the freedom to focus on composition.



EOS R8 | ADDITIONAL FEATURES

NEW GENERATION MULTI-FUNCTION SHOE

Enhance communication with the new generation multi-function shoe compatible with accessories such as the Speedlite EL-5 and Directional Stereo Microphone DM-E1D.



PHOTO/MOVIE SWITCHING LEVER

Quickly switch between photo and movie modes with a new dedicated lever.



PANORAMIC PHOTO MODE

Fit more into your photo with panoramic mode. The panning direction can be set horizontally or vertically for high-rise buildings.



NEW HDR MODE [MOVING SUBJECT]

Reproduce tone with a wide dynamic range even in situations with a large gap in brightness with moving subjects.



HIGH-QUALITY VIDEO CONFERENCING AND LIVESTREAMING

Simply connect via USB with Movie Class and Audio Class compatibility. There are no additional drivers needed for downloading.



FOCUS BRACKETING

Create high-definition images that are in focus from the front to the back of the picture such as macro subjects.



HYBRID AUTO

Automatically create summaries of the day's activities with short movie clips generated into a short digest movie.



EOS R8 | SPECIFICATIONS

TYPE		
Lens mount		RF mount
Image processor		DIGIC X
Compatible lenses		RF/RF-S lenses (EF/EF-S lenses with EF-EOS R)
IMAGE SENSOR		
Screen size		Full-frame
Effective pixels (max. approx. megapixels)		24.2
RECORDING MEDIA		
Card slot	Single slot	SDXC/SDHC/SD (UHS-II compatible)
STILL PHOTO RECORDING		
Image quality	JPEG	JPEG / HEIF / RAW / C-RAW / Dual Pixel RAW
Digital tele-converter		Yes
Maximum burst (approx.) ¹	Electronic 1st curtain	JPEG Large/Fine RAW 1,000 or more 1,000 or more
	Electronic shutter	JPEG Large/Fine RAW 120 56
MOVIE RECORDING		
MP4 recording		Yes
Movie recording size	4K UHD (Fine)	Yes (6K→4K) (60p) (oversampling)
	Full HD	Yes
Movie cropping	4K UHD	Yes (60p)
	Full HD	Yes (60p)
Video compression format	ALL-I	Yes (for time-lapse movies)
	IPB (Standard) / IPB (Light)	Yes
High Frame Rate movies		Full HD (180p) / Full HD (120p)
Canon Log	Canon Log 3	Yes
HDR PQ		Yes
HDR movies		Yes
Time-lapse movies		4K / Full HD / Retention of settings in case of auto power off before recording
HDMI output for movie footage		Yes
Time code		Yes
Pre-recording		Yes
Built-in microphone		Stereo / Audio noise reduction
Headphones	Audio monitoring	Yes
Digital zoom		Yes
Maximum recording time per recording	Normal movies	2 hr.
	High Frame Rate	180p 120p
Overheat control (in movie recording)		Yes
WHITE BALANCE		
Shoot to set white balance		Yes
IMAGE CREATION AND IMAGE PROCESSING		
Picture Style		Yes
Clarity		Yes
Auto Lighting Optimizer		Yes
Highlight tone priority		Yes
Long exposure noise reduction		Yes
High ISO speed noise reduction		Yes
Lens aberration correction (still photos/movies)		Yes
Focus breathing correction (movies)		Yes

EOS R8 | SPECIFICATIONS (Continued)

AUTOFOCUS			
AF operation		One-Shot AF / AI Focus AF (still photos) / Servo AF / Movie Servo AF	
AF area (AF method)		Spot AF / 1-point AF / Expand AF area: Above, below, left, right / Expand AF area: Around / Flexible Zone AF 1, 2 & 3 / Whole area AF	
Focusing area ^{2,3}	Full-frame	mode 100 ⁴	Horizontal: approx. 100%, Vertical: approx. 100%
		mode 90	Horizontal: approx. 90%, Vertical: approx. 100%
		mode 80	Horizontal: approx. 80%, Vertical: approx. 80%
		mode 40	Horizontal: approx. 40%, Vertical: approx. 60%
	1.6× (cropped)	mode 60	Horizontal: approx. 80%, Vertical: approx. 80%
	(APS-C)	mode 40	Horizontal: approx. 64%, Vertical: approx. 80%
No. of AF areas available for auto selection (max. zones)		1053	
Focusing brightness range *Except RF lenses with a Defocus Smoothing (DS) coating	Still photos (center AF point, One-Shot AF, at room temperature, ISO 100)		EV -6.5 to 21 (using an f/1.2 lens)
	Movies (4K, center AF point, One-Shot AF, at room temperature, ISO 100, and 29.97 fps)		EV -4.0 to 21 (using an f/1.2 lens)
	Movies (Full HD, center AF point, One-Shot AF, at room temperature, ISO 100, and 29.97 fps)		EV -4.5 to 21 (using an f/1.2 lens)
Subject detection		Auto / People / Animal - Dogs, Cats, Birds, Horses / Vehicles - Motorsports cars, Motorsports, Motorcycles, Aircraft, Trains / None	
Limit subject to detect		Yes	
Eye detection		Yes (Auto) / Right eye / Left eye	
Left/right eye detection		Yes	
Whole area tracking		Yes	
Servo AF	Available AF area modes		Whole area AF mode
Movie Servo AF setting	Subject detection AF: Prioritize detection		Yes
	Subject detection AF: Restrict detection		Yes
Servo AF characteristics (in still photo shooting)		Yes	
Orientation-linked AF point	Area+pt / Pt only		Yes / Yes
Touch & drag AF settings			Yes
	Tap to select subject to detect		Yes (supported in all AF areas)
	Relative sensitivity		Yes
Electronic full-time MF		Yes	
AF for close-up demos		Yes	
VIEWFINDER			
Type		Electronic (EVF)	
Screen size		0.39 inch	
Dot count (approx.)		2.36 million dots	
Electronic viewfinder refresh rate (max. fps)		119.88	
Coverage (approx. %)		100	
Magnification (approx. ×; 50mm lens at ∞, -1 dpt)		0.70	
Eyepoint (approx. mm)		22	
Dioptric adjustment (approx. dpt)		-4.0 to +1.0	
Brightness adjustment		Yes	
Fine-tuning colour tone		Yes	
Display fading/black-out		Yes	

EOS R8 | SPECIFICATIONS (Continued)

SCREEN			
Dot count (approx.)		1.62 million dots	
Screen size		3.0 inch	
Brightness adjustment		Yes	
Angle adjustment		Vari-angle	
Touch-based menu magnification		Yes	
DISPLAY SETTINGS (APPLIES TO BOTH VIEWFINDER AND SCREEN)			
Display simulation		Yes	
Optical viewfinder simulation (view assist)		Yes	
Focal length display / SA variable amount		Yes	
Recording emphasis		Yes	
Aspect marker		Yes	
SHOOTING MODE			
Still photo shooting mode		A+/Hybrid Auto/Special scene mode/ Creative filters/Fv/P/Tv/Av/M/B/C1/C2	
In Special scene modes	Panoramic shot	Yes	
Movie recording mode		A+/Special scene mode (HDR movie)/ Creative filters/P/Tv/Av/M/C1/C2	
EXPOSURE CONTROL			
ISO speed (still photos)	Normal	100 to 102400	
	ISO expansion (max. ISO equivalent)	L: 50, H: 204800	
ISO speed (normal movies)	Normal	4K	100 to 25600
		Other than above	100 to 25600
	Expansion for faster speeds (max. ISO equivalent)	4K 60p	H: 51200
		Other than above	H: 102400
Metering brightness range	Still photos (at room temperature, ISO 100)	EV -3 to 20	
	Movies (at room temperature, ISO 100)	EV -1 to 20	
Anti-flicker shooting (in still photo shooting)		Yes	
High-frequency anti-flicker shooting (in still photo shooting/movie recording)		Yes	
False colour (in movie recording)		Yes	
Zebra display (in movie recording)		Yes	
SHUTTER			
Shutter mode	Mechanical shutter		—
	Electronic 1st-curtain		Yes
	Electronic shutter		Yes
Shutter speed (sec.)	Mechanical shutter		—
	Electronic 1st-curtain		1/4000–30
	Electronic shutter	High-speed continuous shooting +	1/8000–30
		Other than above	1/16000–30
X-sync speed (sec.)	Mechanical shutter		—
	Electronic 1st-curtain		X-sync at 1/200 sec.
	Electronic shutter		—
Durability		100,000 cycles (with electronic 1st-curtain)	
Silent shutter function		Yes	
Shutter at shutdown		Open	
MULTIPLE-EXPOSURE SHOOTING			
Multiple-exposure shooting		Yes	
Images to merge		JPEG (Large Fine, Large Normal)	
HDR SHOOTING			
HDR mode (still photos)		Dynamic range / Moving subjects / Setting simultaneously with HDR PQ	

EOS R8 | SPECIFICATIONS (Continued)

FOCUS BRACKETING			
Focus bracketing		Yes	
In-camera depth compositing / Cropped depth compositing		Yes	
RAW BURST MODE			
RAW burst mode		Yes	
IMAGE STABILIZATION (IS MODE)			
Compatible with lens optical IS		Yes	
Camera in-body IS		—	
Coordinated control		—	
Movie digital IS		Yes	
DRIVE			
Continuous shooting speed (max. approx. shots/sec.)	High-speed continuous shooting +	Mechanical shutter	—
		Electronic 1st-curtain	6.0
		Electronic shutter	40
	High-speed continuous shooting	Mechanical shutter	—
		Electronic 1st-curtain	6.0
		Electronic shutter	20
Low-speed continuous shooting	Mechanical shutter	—	
	Electronic 1st-curtain	3.0	
		Electronic shutter	5.0
High-speed display		Yes	
TIMER SHOOTING			
Timer shooting		Bulb timer / Interval timer / Movie self-timer	
FLASH			
External flash		E-TTL balance / Evaluative (Face Priority) / Continuous flash control / Continuous shooting priority mode (CSP) / Speedlite menu direct button / Quick flash group control	
PLAYBACK			
View from last seen		Yes	
Erasure of all continuous images		Yes	
IMAGE PROCESSING AFTER SHOOTING			
RAW image processing		Yes	
RAW image processing of RAW burst images		Yes	
Cloud RAW image processing		Yes	
HEIF→JPEG conversion		Yes	
Batch conversion		Yes	
Playback creative filters		Yes	
Creative Assist		Yes	
Frame grab from 4K movies		Yes	
QUICK CONTROL FUNCTION			
Feature guide		Yes	
Quick Control screen	Conventional setting screen	Yes	
PRINT			
Print order (DPOF)		Yes	
Photobook Set-up		Yes	
CUSTOMISATION			
Quick Control customisation		—	
Button/dial customisation		Yes	

EOS R8 | SPECIFICATIONS (Continued)

APPEARANCE AND CAMERA CONTROLS		
Still photo shooting/movie recording switch	Yes	
Multi-function lock	Yes	
Multi-function button	Yes	
Cross keys	Yes	
Main dial	Yes	
Quick control dial 1	Yes	
EXTERNAL INTERFACE		
Digital terminal	USB Type-C	
HDMI output terminal	Type D	
External microphone input terminal	Yes	
Headphone terminal	Yes	
Remote control terminal	E3	
Multi-function shoe	Yes	
POWER SOURCE		
Battery pack	LP-E17	
Battery information	Yes	
USB power support	Charging	Yes
	Powering the camera	Yes
AC power source	AC-E6N / DR-E18	
Number of available shots (approx., with power saving, at 23°C/73°F)	Viewfinder	290 ⁵
	Screen	370 ⁵
Power saving		Yes
	Screen dimmer	Yes
Overheating warning	Yes (icon / indicator)	
COMMUNICATION FUNCTIONS		
Standards	Bluetooth	Ver. 4.2
	USB	Equivalent to SuperSpeed Plus USB (USB 3.2 Gen 2)
	Built-in Wi-Fi (wireless LAN)	Equivalent to IEEE 802.11b/g/n
WPA3-Personal support	Yes	
Remote control shooting with BR-E1 (Bluetooth connection)		Yes
	Support in all drive modes	Yes
	Start/stop movie recording during still photo shooting	Yes
	Reduce/magnify with Movie digital zoom	Yes
Video calls/streaming (USB connection)	Yes	
EOS Utility (wireless LAN/USB connection)	Yes	
Camera Connect	USB connection	Yes
	Wireless LAN connection	Yes
	Saving firmware upgrade files to a card	Yes
image.canon/Canon Photo Upload Service (wireless LAN connection)	Yes	
DIMENSIONS AND WEIGHT		
Dimensions (approx. width × height × depth, based on CIPA standards)	132.5 × 86.1 × 70.0mm	
Weight (approx., including battery and card)	461g	

1 Using high-speed cards. Continuous shooting speed may be slower depending on factors such as measurement conditions and camera settings.

2 The focusing area varies depending on the lens attached.

3 Focusing area "modes" are only used internally and should not be included in published materials.

4 Only with a mode 90 lens attached and the camera set to Whole area AF, or with subject detection if Whole area AF is not set. May not be possible to move AF points to the edge of the focusing area under some scene and subject conditions.

5 Based on CIPA standards.

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