EOS C50

TECHNICAL SPECIFICATIONS

Canon

EOS C50

Full Frame Cinema Camera

OPEN GATE RECORDING FOR ULTIMATE VERSATILITY

The first cinema EOS camera to offer Open Gate Recording using the entire sensor area. This provides enhanced image quality by enabling recording with a wider angle of view and higher resolution giving more freedom in framing and trimming that can be used in a variety of applications.

7K FULL FRAME CMOS SENSOR

The 7K full-frame sensor and DIGIC DV7 processor delivers breathtakingly beautiful visuals with support for enhanced 4K image quality with 7K oversampling. Full-frame readout is supported along with Super 35mm modes.

CANON'S SMALLEST AND LIGHTEST CINEMA EOS CAMERA

The extremely compact form factor on the EOS C50 meets the diverse needs for almost any scenario in the professional world. Combining pro level image quality with a lightweight design.

DUAL PIXEL CMOS AF II WITH SUBJECT DETECTION

Dual Pixel CMOS AF II offers advanced high-speed, high-precision AF. Algorithms which utilise deep learning enable high-performance subject detection which provides high-speed AF that captures the subject instantly.

Dual Pixel CMOS AF II

LINEUP OF MOUNT ADAPTERS FOR COMPATIBILITY

Users can fully utilise their existing EF lenses by attaching an EF-EOS R adapter. PL lenses can also be attached using a new PL-RF mount adapter.

EOS C50 | FEATURES

CINEMA LIGHT RAW RECORDING

Captures ultra-high-resolution, delivering exceptional detail and fluid motion. This feature makes RAW more accessible through smaller file sizes and simplified processes – and see it at work in professional workflows

CANON LOG 2 & CANON LOG 3

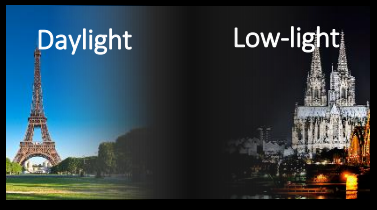
Canon Log 2 & Canon Log 3 are included to ensure a wide dynamic range. Canon Log 2 enables shooting with dynamic range of up to 16 stops

4K 120p RECORDING

Supports up to 2K 180P and 4K 120P* recording. This lets users capture scenes with fast movement, such as sports and concerts.

SUPPORTS TWO BASE ISO MODES

choose from two base ISO levels (800/6400) from low to high. The camera also features Auto Selection, which automatically switches from one of the two base ISO levels to another level with a higher S/N ratio while maintaining the dynamic range.



VIRTUAL PRODUCTION SUPPORT

Plug and Play allows data to be synced with a single cable and no prior calibration required. Lens distortion data is delivered along with other lens operations obtain more natural CG composited images that match and coordinate the real camerawork and the virtual space.

SIMULTANEOUS RECORDING

Dual SD cards slots enable simultaneous recording of XF-AVC, XF-HEVC S, XF-AVC S and proxy data recording to one card while recording Cinema RAW Light internally to the other card for faster video editing.

EOS C50 | INTERFACES

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WHY CANON CINEMA CAMERAS?

SIGNATURE COLOUR SCIENCE

Our colour science is designed to deliver clarity, depth and precision in every frame as well as vibrant true-to-life hues. Uncompromising image quality is at the heart of every Canon cinema camera.

TRUE VERSATILITY

Our C500 Mark II and C300 Mark III have been built with a modular design, making it adaptable for diverse shooting environments. Transition with ease and speed between handheld and studio set-ups. The compact yet powerful EOS C50 and EOS R5 C redefines on-the-go filmmaking, packing high-performance specs into a portable design.

CRAFTED FOR RELIABILITY

From intense shoots to challenging conditions, our cameras are built to perform, ensuring you never miss moment.

CPS. Canon Professional Services

When you purchase a cinema EOS camera or lens, you're unlocking a network of support with Canon Professional Services (CPS). This paid membership is dedicated to the professional community of photographers and cinematographers. It provides comprehensive assistance from a top-tier professional team, including technical help and repairs as well as the latest industry updates.
Find all your service needs in one convenient place.

Canon

EOS C50 | SPECIFICATIONS

	EOS C50		
System	**Lens mount**		RF mount
	Sensor		35mm full-frame CMOS sensor
	Number of pixels		Total pixels: approx. 34.20 megapixels Effective pixels: up to approx. 32.50 megapixels
	ISO sensitivity		160-25600 (Extended: 100-102400 with extender)
	BASE ISO		800 / 6400 / (auto selection)
	Sensor mode		Full-frame, Super 35mm Crop
	ND filter		No
	Gamma		Canon Log 2, Canon Log 3, Canon 709, BT.709 Wide DR, BT.709 Standard, PQ, HLG
	Frame rate		7K(6960x4640) 29.97p/25.00p (RAW) 7K(6960x3672) 59.94p/50.00p (RAW) 7K(6912x4608) 29.97p/25.00p (XF-HEVC S) 5K(5036x2656) 59.94p/50.00p (RAW) 2.5K(2524x1332) 59.94p/50.00p (RAW) 4K 59.94p/50.00p (XF-AVC/XF-HEVC S/XF-AVC S) 2K 59.94p/50.00p (XF-AVC/XF-HEVC S/XF-AVC S)
	Color space		Cinema Gamut, BT.2020 Gamut, BT.709 Gamut
	White balance		Auto, sunlight, tungsten, color temperature (2000K to 15000K), settings A/B
	Dynamic range		15+ stops (when set to Sensor mode: Full-frame) 16 stops (when set to Sensor mode: Super 35mm (Crop)
	AF		Dual Pixel CMOS AF II
	Recording Format	**Movies**	Cinema RAW Light XF-AVC XF-HEVC S XF-AVC S
		Photos	JPEG
	Maximum frame rate* (slow & fast, etc.)		Full-frame 3:2: 6960x4640/30P, 6912x4608/30P Full-frame: 6960x3672/60P, 4096x2160/120P, 2048x1080/180P Super35mm Crop: 5036x2656/60P, 4096x2160/60P, 2048x1080/60P Super16mm Crop : 2524x1332/150P, 2048x1080/150P
	Recording format (audio)		Linear PCM 24-bit/48kHz/4ch AAC 16-bit/48kHz/2ch (XF-HEVC S / XF-AVC S)
	Recording media		CFexpress (Type B) x1 / SD (UHS-II) x1
	LCD monitor		3.0-inch LCD 1.62 million dots, touch panel
	Viewfinder		No
	Multi-function shoe (21 pin)		Yes (with electrical contacts)
	Wi-Fi		Internal

EOS C50 | SPECIFICATIONS

EOS C50 (continued)		
Input/Output Terminals	**LENS**	No
	SDI OUT	No
	MON.	No
	HDMI	Type-A
	INPUT	Mini-XLR x2 (AES/EBU not supported; when hand unit is attached)
	Ethernet	No (support available with standard ethernet adapter)
	USB	Yes (USB Type-C) [HOST supported/ power supply]
	GRIP	No
	MIC	Φ3.5mm stereo mini jack
	Headphone	Yes (stereo)
	REMOTE E3 (φ2.5mm)	Yes
	REMOTE N3 terminal	Yes (conversion adapter: RA-E3 required)
	TC (TIME CODE)	Yes (DIN terminal) [doubles as input/output]
	G-LOCK	No
	SYNC	No
	RET	No
	DC-IN	Yes (DR-E6P, DR-E6C)
Power / Other	**Battery**	LP-E6P
	Operating temperature	Guaranteed performance conditions: Approx. 0 ℃ to 40 ℃ 85% (relative humidity) Guaranteed operating conditions: Approx. -5 ℃ to 45 ℃ 60%(relative humidity)
	Dimensions (W x H x D)	Approx. 142 x 88 x 95 mm
	Main body weight	Approx. 670 g

EOS C50 | SPECIFICATIONS

Main Recording Formats						
Format	Codec	Intra-frame/ Long GOP	Sampling	Resolution	Max. Bit rate	Slow & Fast Max. frame rate
Cinema RAW Light	-	-	12bit	6960x4640	1800Mbps (29.97P ST) 1510Mbps (25.00P ST)	30P
				6960x3672	2860Mbps (59.94P ST) 2380Mbps (50.00P ST)	60P
					2900Mbps (29.97P HQ) **2420Mbps (25.00P HQ)**	30P
				5036x2656	1500Mbps (59.94P ST) 1250Mbps (50.00P ST)	60P
					1520Mbps (29.97P HQ) **1270Mbps (25.00P HQ)**	30P
				2524x1332	769Mbps (59.94P HQ) 642Mbps (50.00P HQ)	150P
XF-AVC	H.264/ AVC	Intra-frame	422 10bit	4096 x 2160 3840 x 2160	1200Mbps (59.94P) 1000Mbps (50.00P)	120P
				2048 x 1080 1920 x 1080	300Mbps (59.94P) 250Mbps (50.00P)	180P
				1920 x 1080	150Mbps (59.94i) 125Mbps (50.00i)	—
		Long GOP	422 10bit	4096 x 2160 3840 x 2160	250Mbps (59.94P/50.00P) 150Mbps (29.97P/25.00P/24.00P/23.98P)	120P
				2048 x 1080 1920 x 1080	50Mbps (59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)	180P
				1920 x 1080	50Mbps (59.94i/50.00i)	—

EOS C50 | SPECIFICATIONS

Main Recording Formats

Format	Codec	Intra-frame/ Long GOP	Sampling	Resolution	Max. Bit rate	Slow & Fast Max. frame rate
XF-HEVC S	H.265/ HEVC	Intra-frame	422 10bit	6912 x 4608	**1620Mbps (29.97P) 1350Mbps (25.00P)**	30P
					1730Mbps (24.00P/23.98P)	24P
		Long GOP	422 10bit		**486Mbps (29.97P/25.00P/24.00P/23.98P)**	30P
				4096 x 2160 3840 x 2160	225Mbps (59.94P/50.00P) 135Mbps **(29.97P/25.00P/24.00P/23.98P)**	120P
				2048 x 1080 1920 x 1080	50Mbps **(59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)**	180P
			420 10bit	**6912 x 4608**	**360Mbps (29.97P/25.00P/24.00P/23.98P)**	30P
				4096 x 2160 3840 x 2160	150Mbps (59.94P/50.00P) 100Mbps **(29.97P/25.00P/24.00P/23.98P)**	120P
				2048 x 1080 1920 x 1080	35Mbps **(59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)**	180P
XF-AVC S	H.264/ AVC	Intra-frame	422 10bit	4096 x 2160 3840 x 2160	1200Mbps (59.94P) 1000Mbps (50.00P)	120P
				2048 x 1080 1920 x 1080	300Mbps (59.94P) 250Mbps (50.00P)	**180P**
		Long GOP	422 10bit	4096 x 2160 3840 x 2160	250Mpbs (59.94P/50.00P) 150Mbps **(29.97P/25.00P/24.00P/23.98P)**	120P
				2048 x 1080 1920 x 1080	50Mbps **(59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)**	180P
			420 8bit	4096 x 2160 3840 x 2160	150Mpbs (59.94P/50.00P) 100Mbps **(29.97P/25.00P/24.00P/23.98P)**	120P
				2048 x 1080 1920 x 1080	35Mbps **(59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)**	180P

*When 2K 120-180P is selected in Full-frame mode, the angle of view is cropped by approx. 12%.

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EOS C50 | SPECIFICATIONS

Proxy/Cropped Recording Formats

Format	Codec	Intra-frame/ Long GOP	Sampling	Resolution	Max. Bit rate	Slow & Fast Max. frame rate
XF-AVC	H.264/ AVC	Long GOP	420 8bit (Proxy)	2048 x 1080	35Mbps (59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)	150P
				1920 x 1080	35Mbps (59.94P/59.94i/50.00P/50.00i/29.97P/25.00P/ 24.00P/23.98P)	—
XF-HEVC S	H.265/ HEVC	Long GOP	420 8bit (Proxy)	2048 x 1080	16Mbps/9Mbps (59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)	150P
				1920 x 1280	16Mbps/9Mbps (29.97P/25.00P/24.00P/23.98P)	30P
				1920 x 1080	16Mbps/9Mbps (59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)	—
			420 8bit (Proxy)	1280 x 720	6Mbps (59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)	—
			422 10bit (Cropped)	1080 x 2048 1080 x 1920	50Mbps (59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)	—
				1080 x 1080	27Mbps (59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)	—
			420 10bit (Cropped)	1080 x 2048 1080 x 1920	35Mbps (59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)	—
				1080 x 1080	19Mbps (59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)	—

*When 2K 120-180P is selected in Full-frame mode, the angle of view is cropped by approx. 12%.

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EOS C50 | SPECIFICATIONS

Proxy/Cropped Recording Formats						
Format	Codec	**Intra-frame/ Long GOP**	**Sampling**	**Resolution**	**Max. Bit rate**	**Slow & Fast Max. frame rate**
XF-AVC S	**H.264/ AVC**	**Long GOP**	**420 8bit (Proxy)**	2048 x 1080	16Mbps/9Mbps **(59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)**	150P
				1920 x 1280	16Mbps/9Mbps **(29.97P/25.00P/24.00P/23.98P)**	30P
				1920 x 1080	16Mbps/9Mbps **(59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)**	—
				1280 x 720	6Mbps **(59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)**	—
		Intra-frame	422 10bit (Cropped)	**1080 x 2048 1080 x 1920**	**300Mbps(59.94P) 250Mbps(50.00P)**	—
				1080 x 1080	**159Mbps(59.94P) 133Mbps(50.00P)**	—
		Long GOP		1080 x 2048 1080 x 1920	**50Mbps (59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)**	—
				1080 x 1080	27Mbps (59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)	—
			420 10bit (Cropped)	1080 x 2048 1080 x 1920	35Mbps (59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)	—
				1080 x 1080	19Mbps (59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)	—

*When 2K 120-180P is selected in Full-frame mode, the angle of view is cropped at approx. 12%.

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EOS C50 | SPECIFICATIONS

	Still Image Mode	
System	**Lens mount**	RF mount
	Sensor	35mm full-frame CMOS sensor
	Number of pixels	Total pixels: approx. 34.20 megapixels Effective pixels: up to approx. 32.50 megapixels
	Formats	RAW, C-RAW, HEIF, JPEG
	Number of recording pixels	L (large): approx. 32.30 million (6960 × 4640) pixels M (middle): approx. 15.40 million (4800 × 3200) pixels S1 (small 1): approx. 8.10 million (3472 × 2320) pixels S2 (small 2): approx. 3.80 million (2400 × 1600) pixels RAW (raw): approx. 32.30 million (6960 × 4640) pixels C-RAW: approx. 32.30 million (6960 × 4640) pixels (figures are for when set to 3:2 aspect ratio (full-frame))
	Vlewfinder	No
	AF	Dual Pixel CMOS AF II
	Standard ISO sensitivity	100-64000 (50-102400 with extender)
	Shutter format	Electronic shutter
	Shutter speed	1/6000 to 30 sec
	In-body IS	No
	Drive mode	Single shooting, High-speed continuous shooting+, High-speed continuous shooting, Low-speed continuous shooting, Self-timer: 10 sec., Self-timer: 2 sec., Self-timer: Continuous
	Continuous shooting speed	High-speed continuous shooting+: Up to approx. 40 shots/sec. High-speed continuous shooting: Up to approx. 20 shots/sec. Low-speed continuous shooting: Up to approx. 5.0 shots/sec.
	External flash	No

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