



EOS C50

General	
Type	
Image Processor	DIGIC DV 7
Lens Mount	Canon RF mount
Compatible Lenses	• RF lens (including RF-S lens, RF cinema lens)
	• EF lens (including EF-S lens, EF cinema lens (when equipped the EF-RF Mount Adapter))
	• PL lens (when equipped the Mount Adapter PL-RF)
Image Sensor	
Sensor	Full frame CMOS sensor
Number of Total Pixels	Approx. 34.20 megapixels (7144x4790)
Number of Effective Pixels	• Sensor mode: Full frame 3:2 Approx. 32.373 megapixels (6968x4646): 6960x4640 / 6912x4608 resolution • Sensor mode: Full frame Approx. 25.628 megapixels (6968x3678): 6960x3672 / 4096x2160 / 2048x1080 resolution Approx. 24.032 megapixels (6534*1x3678): 3840x2160 / 1920x1080 resolution • Sensor mode: Super 35mm (Crop) Approx. 13.427 megapixels (5044x2662): 5036x2656 / 4096x2160 / 2048x1080 resolution • Sensor mode: Super 16mm (Crop) Approx. 3.388 megapixels (2532x1338): 2524x1332 / 2048x1080 resolution Approx. 3.176 megapixels (2374*3x1338): 1920x1080 resolution *1 Converted from 6968 pixels *2 Converted from 5044 pixels *3 Converted from 2532 pixels
Unit pixel	5.16 X 5.16 (μm)
Effective Sensor Size	• Sensor mode: Full frame 3:2 35.9 x 23.9 mm (43.2 mm on the diagonal): 6960x4640 resolution 35.7 x 23.8 mm (42.9 mm on the diagonal): 6912x4608 resolution • Sensor mode: Full frame 35.9 x 18.9 mm (40.6 mm on the diagonal): 6960x3672 / 4096x2160 / 2048x1080 resolution 33.6 x 18.9 mm (38.6 mm on the diagonal): 3840x2160 / 1920x1080 resolution • Sensor mode: Super 35mm (Crop) 26.0 x 13.7 mm (29.4 mm on the diagonal): 5036x2656 / 4096x2160 / 2048x1080 resolution 24.4 x 13.7 mm (28.0 mm on the diagonal): 3840x2160 / 1920x1080 resolution • Sensor mode: Super 16mm (Crop) 13.0 x 6.9 mm (14.7 mm on the diagonal): 2524x1332 / 2048x1080 resolution 12.2 x 6.9 mm (14.0 mm on the diagonal): 1920x1080 resolution
Color Filter System	RGB primary color filter (Bayer array)
Dynamic Range	• Sensor mode: Full frame Canon Log 2: 1600% / 15+ stops (Base Sensitivity ISO 800) • Sensor mode: Super35mm Canon Log 2: 1600% / 16 stops (Base Sensitivity ISO 800)

LCD Screen	
Type	Color wide LCD monitor
Screen size	3.0 inch (diagonal 7.5 cm)
Number of dots	Approx. 1.62 million dots (900xRGBx600)
Field of view coverage	100%
Adjustment function	"Brightness, Contrast, Color, Sharpness, Luminance*" * A luminance boost function is also available that makes LCD monitor display easier to see outdoors and in other bright conditions."
Touch panel	Electrostatic capacitance system. Touch/drag operation supported.
Network specifications	
Ethernet	
Standards compliance: Follows the specifications of the Ethernet adapter	
• Wi-Fi	
• Supported standards: IEEE802.11b /g /n (2.4 GHz) IEEE802.11a / n / ac (5 GHz) • Setup: Infrastructure (WPS: push button method, WPS: PIN code method, access point, manual configuration), Camera access point • Security: Open, Shared key, WPA/WPA2/WPA3-Personal, WPA/WPA2/WPA3-Enterprise • Encryption: TKIP, AES	
IP streaming	
Compression method	MPEG-4 H.264/AVC
Bit rate/Resolution	9 Mbps: 920x1080 (59.94P, 59.94i, 50.00P, 50.00i) 4 Mbps: same as above
Audio	MPEG-2 ACC-LC 2ch
Audio rate	256 kbps
Protocols	• UDP: Prioritizes transfer speed, with no guarantees of reliability or correct order. Lost or lagging packets ignored. • RTP: Standard system for sending videos and audio online. Lost or lagging packets ignored. • SRT: Achieves high-quality streaming with minimal video distortion due to low latency and a packet loss playback function. • RTP+FEC: Error correction (FEC)* control during RTP transfer enables recovery of lost or corrupt packets on the receiving side. • RTSP+RTP: Real-time data streaming control via RTSP (Real Time Streaming Protocol) and transfer via RTP. The receiving side can start or stop streaming.

Network functions and connection methods				
Function	Description	Ethernet	Wi-Fi	
			Infrastructure	"Camera access point"
IP Streaming	Streams video to decoder transmission device or computer over the network.	●	●	—
XC Protocol	"The D227 can be remotely operated by a controller or application that supports the XC protocol via IP connection. Supported Canon products are as follows: • Controller RC-IP100 (Ver 1.20 or later), RC-IP1000 • Application Remote Camera Control Application (Ver 1.3.0 or later), Canon Multi-Camera Control, Multi-Camera Management Application"	●	●	●
Canon App	"This function allows you to connect a camera to a mobile device running iOS or Android via Wi-Fi, and use Content Transfer Professional on the device to transfer files from the camera (video files, audio files, News Metadata, still image files), as well as create and edit News Metadata."	—	●	—
CV Protocol	"Output metadata information needed for real-time virtual production in a computer application from a commercially available Ethernet adapter."	●*	—	—
Frame.io	Upload clips from the camera using Adobe's Frame.io Camera to Cloud function.	●	●	—
*IPv4 only				
Verified Ethernet Adapters				
Model Number		Manufacturer		
US1GC30W		StarTech.com		
US2GC30		StarTech.com		
UG-USBC-25052		UGREEN		
The listed model numbers have been tested and verified for compatibility by Canon. The operation of the listed models is not guaranteed.				

Input / Output terminal			
Input Terminal			
Camera			
MIC Terminal	Φ3.5 mm stereo mini jack (Unbalanced, plugin power supported)		
	MIC	Input impedance	1.5 kΩ
		Sensitivity	-72 dBV (Volume auto, Full scale - 18 dB)
		ATT	20 dB
		Supply voltage	DC 2.0 V (Bias resistor 2.2 kΩ)
	LINE	Input impedance	10 kΩ
Sensitivity		-12 dBV (Volume center, Full scale - 18 dB)	
Remote Terminal	Type E3, Φ2.5 mm, stereo mini jack		
Handle unit			
INPUT1 Terminal, INPUT2 Terminal	XLR 3 pin jack (Balanced) (1) Shield, (2) Hot, (3) Cold)		
	MIC	Input impedance	1.2 kΩ
		Sensitivity	-60 dBu (Volume center, Full scale - 18 dB)
		ATT	20 dB
	LINE	Input impedance	10 kΩ
		Sensitivity	+4 dBu (Volume center, Full scale - 18 dB)
Output Terminal			
HDMI OUT Terminal	HDMI connector (Type A) Time codes can be superimposed (original standards)		
	Video/Audio Output		According to HDMI specifications.
Headphone Terminal	Φ3.5mm stereo mini jack		
	Output impedance	50 Ω or lower	
	Output signal level	-17 dBV (32 Ω load, maximum volume)	
Output Terminal			
USB Terminal	USB Type-C® jack		
	Can be used to connect a smartphone or Ethernet adapter. USB Video Class and USB Audio Class (UVC and UAC) are supported.		
	In-camera charging and power supply are possible with USB Power Adapter PD-E2.		
	With an Ethernet adapter: equivalent to SuperSpeed USB (USB 3.2 Gen 1)		
	In other cases: equivalent to SuperSpeedPlus USB (USB 3.2 Gen 2)		
TIME CODE Terminal	DIN1.0/2.3 jack terminal		
	Input	Input impedance: 100kΩ	
		Signal level: 0.5-4.5 Vp-p	
	Output	Output impedance: 50Ω	
Signal level: 1.3 Vp-p			
Other Terminals			
Multi-Accessory Shoe Terminal	Canon original specifications		

Power Source		
Terminal	Battery terminal: DC 7.2 V (battery pack)	
Compatible battery	LP-E6P (provided with camera) /LP-E6NH*	
*Lenses that do not operate when powered by LP-E6NH or DR-E6C only in VIDEO mode		
EF28-70mm F3.5-4.5	EF50mm 1.0L USM	EF28-80mm F2.8-4L USM
EF1200mm F5.6L USM	EF24mm F2.8	EF100mm F2 USM
EF 200mm F2.8 L	EF200mm F2.8L II USM	EF100-200mm F4.5A
EF35-80mm F4-5.6 PZ	EF35-80mm F4-5.6	EF80-200mm F4.5-5.6
EF75-300mm F4-5.6 IS USM	EF80-200mm F4.5-5.6 II	EF75-300mm F4-5.6 II
EF28-80mm F3.5-5.6	EF35-135mm F4-5.6 USM	EF100-300mm 4.5-5.6 USM
EF70-210mm F3.5-4.5 USM	EF35-105mm F4.5-5.6	EF75-300mm 4-5.6
EF35-350mm 3.5-5.6L USM	EF28-70mm 2.8L USM	EF20-35mm 3.5-4.5 USM
EF70-200mm F2.8L USM	EF24-85mm 3.5-4.5 USM	EF20mm F2.8 USM
EF85mm F1.8 USM	EF400mm F5.6L USM	EF135mm F2L USM
EF300mm F4L IS USM	EF35-80mm F4-5.6 USM	EF75-300mm F4-5.6 USM
EF75-300mm F4-5.6 II USM	EF28-80mm F3.5-5.6 III USM	EF28-80mm F3.5-5.6 IV USM
EF55-200mm F4.5-5.6 USM	EF28-80mm F3.5-5.6 V USM	EF75-300mm F4-5.6 III USM
EF28-80mm F3.5-5.6 II	EF28-90mm F4-5.6 USM	EF28-90mm F4-5.6
EF28-105mm F4-5.6 USM	EF90-300mm 4.5-5.6	EF28-90mm F4-5.6 II USM
EF70-300mm F4-5.6 IS USM	EF35mm 1.4L USM	EF400mm F2.8L IS USM
EF85mm F1.2L II USM	EF28-135mm 3.5-5.6 IS USM	EF100-400mm F4.5-5.6L IS USM
EF70-200mm F4L USM	EF16-35mm F2.8L USM	EF24-70mm F2.8L USM
EF17-40mm F4L USM	EF70-300mm 4.5-5.6 DO IS USM	EF70-200mm F4L IS USM
EF16-35mm 2.8L II USM	EF8-15mm F4L FISHEYE USM	
Dimensions and Weight		
Dimensions (W x H x D)	Camera (Width x height x depth) Approx. 142 x 88 x 95 mm (5.6 x 3.5 x 3.7 in.) (camera body only) Approx. 222 x 239 x 186 mm (8.7 x 9.4 x 7.3 in.) (attached handle unit and Microphone holder) * For dimension details, refer to the six-sided view.	
Weight	(1) Camera Approx. 670 g (1.47 lb.) (2)Camera+Battery Pack LP-E6P+CFexpresscard+SD card Approx. 765g (1.7 lb.) (3) Camera+Handle unit+Microphone holder+Battery Pack LP-E6P+CFexpresscard+SD card Approx. 1120 g (2.5 lb.) (4) Supplied accessories • Handle unit: Approx. 300 g (10.6 oz.) • Microphone holder and two bolts: Approx. 60 g (2.1 oz.) • LP-E6P Battery Pack: Approx. 82 g (2.89 oz.) • LC-E6 Battery Charger: Approx. 110 g (3.9 oz.) • LC-E6E Battery Charger: Approx. 100 g (3.5 oz.) (excluding power cord)	
Operating Environment		
Temperature and humidity requirements for performance	Approx. 0 to 40°C (32 to 104 °F), 85% (relative humidity)	
Temperature and humidity requirements for operation	Approx. -5 to 45°C (23 to 113 °F), 60% (relative humidity)	

Maximum Recording Times with Battery/Power Consumption

Refer to the following table for the approximate continuous recording times when using the supplied LP-E6P Battery Pack or the optional LP-E6NH Battery Pack (fully charged). The values were measured while recording to a CFexpress card (second card recording functions turned off), with an RF50mm F1.8 L USM lens attached, with all settings other than those listed in the table set to default, and with no terminals connected.

Video Configuration					Power Consumption (W)	Approximate continuous recording time (min.) (LP-E6P)	Approximate continuous recording time (min.) (LP-E6NH)
Sensor Mode	Main Recording Format	Resolution	Frame Rate	Bit Rate			
RAW							
Full frame 3:2	RAW ST	6960x4640	29.97P	1800 Mbps	9.7	90	65
			25.00P	1510 Mbps	8.8	100	70
Full frame	RAW ST	6960x3672	59.94P	2860 Mbps	13.8	60	40
			50.00P	2380 Mbps	12.2	70	45
	RAW HQ	6960x3672	29.97P	2900 Mbps	10.3	85	60
			25.00P	2420 Mbps	9.3	95	70
Super 35mm (Cropped)	RAW ST	5036x2656	59.94P	1500 Mbps	12.2	70	45
			50.00P	1250 Mbps	10.8	80	60
Super 16mm (Cropped)	RAW HQ	2524x1332	59.94P	769 Mbps	9.9	90	65
			50.00P	642 Mbps	8.8	100	70
XF-AVC							
Full frame	XF-AVC YCC422 10 bit	4096x2160 Intra-frame	59.94P	1200 Mbps	13.6	60	40
			50.00P	1000 Mbps	12.1	70	45
		3840x2160 Long GOP	59.94P	250 Mbps	13.3	65	40
			50.00P	250 Mbps	12.0	70	45
Super 35mm (Cropped)	XF-AVC YCC422 10 bit	4096x2160 Intra-frame	59.94P	1200 Mbps	12.4	65	45
			50.00P	1000 Mbps	11.0	80	55
Super 16mm (Cropped)	XF-AVC YCC422 10 bit	2048x1080 Intra-frame	59.94P	300 Mbps	9.8	90	65
			50.00P	250 Mbps	8.7	100	70
XF-HEVC S							
Full frame 3:2	XF-HEVC S YCC422 10 bit	6912x4608 Intra-frame	29.97P	1620 Mbps	12.0	70	45
			25.00P	1350 Mbps	10.7	80	60
Full frame	XF-HEVC S YCC422 10 bit	4096x2160 Long GOP	59.94P	225 Mbps	13.5	60	40
			50.00P	225 Mbps	11.9	70	45
Super 35mm (Cropped)	XF-HEVC S YCC422 10 bit	4096x2160 Long GOP	59.94P	225 Mbps	12.1	70	45
			50.00P	225 Mbps	10.8	80	60
Super 16mm (Cropped)	XF-HEVC S YCC422 10 bit	2048x1080 Long GOP	59.94P	50 Mbps	9.6	90	65
			50.00P	50 Mbps	8.6	100	75
XF-AVC S							
Full frame	XF-AVC S YCC422 10 bit	4096x2160 Intra-frame	59.94P	1200 Mbps	13.7	60	40
			50.00P	1000 Mbps	12.1	70	45
Super 35mm (Cropped)	XF-AVC S YCC422 10 bit	4096x2160 Intra-frame	59.94P	1200 Mbps	12.4	65	45
			50.00P	1000 Mbps	11.0	80	55
Super 16mm (Cropped)	XF-AVC S YCC422 10 bit	2048x1080 Intra-frame	59.94P	300 Mbps	9.7	90	65
			50.00P	250 Mbps	8.7	100	75

Battery Charging: LP-E6P(using Battery Charger LC-E6 / LC-E6E): approx. 180 min. (at room temperature). Charging time varies depending on ambient temperature and the battery's charge level.

Video										
Sensor Mode										
Sensor Mode		Main Rec Format				Main Resolution				
Full frame 3:2		RAW				6960x4640				
		XF-HEVC S				6912x4608				
Full frame		RAW				6960, 3672				
		XF-AVC, XF-HEVC S, XF-AVC S				4096x2160, 3840x2160, 2048x1080, 1920x1080				
Super 35mm (Crop)		RAW				5036x2656				
		XF-AVC, XF-HEVC S, XF-AVC S				4096x2160, 3840x2160, 2048x1080, 1920x1080				
Super 16mm (Crop)		RAW				2524x1332				
		XF-AVC, XF-HEVC S, XF-AVC S				2048x1080, 1920x1080				
BaseISO										
Gamma/Color Space Gamma		MENU > [Camera Setup] > [ISO/Gain]								
		[ISO]				[Gain]				
Canon Log 2, Canon Log 3		Auto Selection, Base ISO 800, Base ISO 6400				Auto Selection, Base ISO 800 (12dB), Base ISO 6400 (12dB)				
PQ, HLG, Canon 709, BT.709 Wide DR		Auto Selection, Base ISO 400, Base ISO 3200				Auto Selection, Base ISO 400 (6dB), Base ISO 3200 (6dB)				
BT.709 Standard		Auto Selection, Base ISO 160, Base ISO 1250				Auto Selection, Base ISO 160 (-2dB), Base ISO 1250 (-2dB)				
Recording Specifications										
RAW										
• Recording media: CFexpress or SD cards (colored cells: CFexpress only)										
Sensor Mode	Main Rec Format	Resolution	Color Depth	System Frequency / Frame rate / Bit rate						Audio
				59.94 Hz			50.00 Hz		24.99 Hz	
				59.94 P	29.97 P	23.98 P	50.00 P	25.00 P	24.00 P	
Full-Frame 3:2	RAW ST	6960x4640	12bit	–	1800Mbps*	1440Mbps*	–	1510Mbps*	1450Mbps*	Linear PCM (24 bit 48kHz) 4 channels
	RAW LT			–	1170Mbps*	936Mbps*	–	976Mbps*	937Mbps*	
Full-Frame	RAW HQ	6960x3672		–	2900Mbps*	2320Mbps*	–	2420Mbps*	2320Mbps*	
	RAW ST			2860Mbps*	1430Mbps*	1150Mbps*	2380Mbps*	1190Mbps*	1150Mbps*	
	RAW LT			1860Mbps*	927Mbps*	742Mbps*	1550Mbps*	773Mbps*	742Mbps*	
Super 35mm (Crop)	RAW HQ	5036x2656		–	1520Mbps*	1220Mbps*	–	1270Mbps*	1220Mbps*	
	RAW ST			1500Mbps*	748Mbps*	599Mbps	1250Mbps*	624Mbps*	599Mbps	
	RAW LT			972Mbps*	486Mbps	389Mbps	811Mbps*	406Mbps	390Mbps	
Super 16mm (Crop)	RAW HQ	2524x1332		769Mbps*	385Mbps	308Mbps	642Mbps*	321Mbps	308Mbps	
	RAW ST			379Mbps	190Mbps	152Mbps	316Mbps	158Mbps	152Mbps	
	RAW LT			246Mbps	123Mbps	99Mbps	206Mbps	103Mbps	99Mbps	
*CFexpress only										

XF-AVC											
• Recording media: CFexpress or SD cards (colored cells: CFexpress only)											
Main Rec Format	Main Resolution/Bit Rate		System Frequency / Frame Rate								Audio
			59.94Hz				50.00Hz			24.00Hz	
			59.94P	59.94i	29.97P	23.98P	50.00P	50.00i	25.00P	24.00P	
XF-AVC YCC422 10 bit	4096x2160 3840x2160	1200 Mbps Intra	●*	—	—	—	—	—	—	—	Linear PCM (24 bit 48kHz) 4 channels
		1000 Mbps Intra	—	—	—	—	●	—	—	—	
		900 Mbps Intra	●*	—	—	—	—	—	—	—	
		750 Mbps Intra	—	—	—	—	●	—	—	—	
		600 Mbps Intra	●	—	●	—	—	—	—	—	
		500 Mbps Intra	—	—	—	—	●	—	●	—	
		480 Mbps Intra	—	—	—	●	—	—	—	●	
		450 Mbps Intra	—	—	●	—	—	—	—	—	
		375 Mbps Intra	—	—	—	—	—	—	●	—	
		360 Mbps Intra	—	—	—	●	—	—	—	●	
		300 Mbps Intra	—	—	●	—	—	—	—	—	
		250 Mbps Intra	—	—	—	—	—	—	●	—	
		240 Mbps Intra	—	—	—	●	—	—	—	●	
		250 Mbps L.GOP	●	—	—	—	●	—	—	—	
		150 Mbps L.GOP	—	—	●	●	—	—	●	●	
	2048x1080 1920x1080	300 Mbps Intra	●	—	—	—	—	—	—	—	
		250 Mbps Intra	—	—	—	—	●	—	—	—	
		150 Mbps Intra	—	●**	●	—	—	—	—	—	
		125 Mbps Intra	—	—	—	—	—	●**	●	—	
		120 Mbps Intra	—	—	—	●	—	—	—	●	
		50 Mbps L.GOP	●	●**	●	●	●	●**	●	●	
		25 Mbps L.GOP	—	●**	—	—	—	●**	—	—	
*Cfexpress only											
**1920x1080 only											

XF-HEVC S									
• Recording media: CFexpress or SD cards (colored cells: CFexpress only)									
Main Rec Format	Main Resolution	Bit Rate	System Frequency / Frame Rate						Audio
			59.94 Hz			50.00 Hz		24.99 Hz	
			59.94 P	29.97 P	23.98 P	50.00 P	25.00 P	24.00 P	
XF-HEVC S YCC4:2:2 10-bit	6912x4608 3840x2160	1730 Mbps Intra	—	—	●*	—	—	●*	• MPEG2-AAC LC (16 bit 48kHz) 2 channels • Linear PCM (24 bit 48kHz) 4 channels
		1620 Mbps Intra	—	●*	—	—	—	—	
		1350 Mbps Intra	—	—	—	—	●*	—	
		1300 Mbps Intra	—	—	●*	—	—	●*	
		1080 Mbps Intra	—	●*	—	—	—	—	
		900 Mbps Intra	—	—	—	—	●*	—	
		864 Mbps Intra	—	—	●*	—	—	●*	
		486 Mbps L.GOP	—	●	●	—	●	●	
	4096x2160 3840x2160	225 Mbps L.GOP	●	—	—	●	—	—	
		135 Mbps L.GOP	—	●	●	—	●	●	
	2048x1080 1920x1080	50 Mbps L.GOP	●	●	●	●	●	●	
XF-HEVC S YCC4:2:0 10-bit	6912x4608	360 Mbps L.GOP	—	●	●	—	●	●	
	4096x2160	150 Mbps L.GOP	●	—	—	●	—	—	
	3840x2160	100 Mbps L.GOP	—	●	●	—	●	●	
	2048x1080 1920x1080	35 Mbps L.GOP	●	●	●	●	●	●	

*Cfexpress only

XF-AVC S • Recording media: CFexpress or SD cards									
Main Rec Format	Main Resolution/Bit Rate		System Frequency / Frame Rate						Audio
			59.94Hz			50.00Hz		24.00Hz	
			59.94P	29.97P	23.98P	50.00P	25.00P	24.00P	
XF-AVC S YCC422 10bit MPEG-4 AVC/H.264	4096x2160 3840x2160	1200 Mbps Intra	●*	—	—	—	—	—	• MPEG2-AAC LC (16 bit 48kHz) 2 channels • Linear PCM (24 bit 48kHz) 4 channels
		1000 Mbps Intra	—	—	—	●*	—	—	
		900 Mbps Intra	●*	—	—	—	—	—	
		750 Mbps Intra	—	—	—	●*	—	—	
		600 Mbps Intra	●	●	—	—	—	—	
		500 Mbps Intra	—	—	—	●	●	—	
		480 Mbps Intra	—	—	●	—	—	●	
		450 Mbps Intra	—	●	—	—	—	—	
		375 Mbps Intra	—	—	—	—	●	—	
		360 Mbps Intra	—	—	●	—	—	●	
		300 Mbps Intra	—	●	—	—	—	—	
		250 Mbps Intra	—	—	—	—	●	—	
		240 Mbps Intra	—	—	●	—	—	●	
		250 Mbps L.GOP	●	—	—	●	—	—	
		150 Mbps L.GOP	—	●	●	—	●	●	
	2048x1080 1920x1080	300 Mbps Intra	●	—	—	—	—	—	
		250 Mbps Intra	—	—	—	●	—	—	
		150 Mbps Intra	—	●	—	—	—	—	
		125 Mbps Intra	—	—	—	—	●	—	
		120 Mbps Intra	—	—	●	—	—	●	
		50 Mbps L.GOP	●	●	●	●	●	●	
XF-AVC S YCC420 8 bit MPEG-4 AVC/H.264	4096x2160 3840x2160	150 Mbps L.GOP	●	—	—	●	—	—	
		100 Mbps L.GOP	—	●	●	—	●	●	
	2048x1080 1920x1080	35 Mbps L.GOP	●	●	●	●	●	●	

*Cfexpress only

Media Overview								
		SD Card	Cfexpress Card					
Type		SD, SDHC, SDXC	CFexpress 2.0 Type B					
Number of slots		1	2					
Speed class / VPG		Speed class: C6, C10 UHS speed class: U1, U3 Video speed class: V30, V60, V90	VPG 400					
File system		• SD card (~2GB): FAT12, 16 • SDHC card (up to 32GB): FAT32 • SDXC card (exceeds 32GB to 2TB): exFAT File division units: FAT32 is 4GB exFAT is none Maximum of 9 file divisions per clip (FAT32 only)	CFexpress(~8TB): exFAT					
Maximum number of clips per media		RAW / XF-AVC / XF-HEVC S, XF-AVC S: 999						
Recorded data		Movie: XF-AVC, XF-AVC S, XF-HEVC S (CFexpress card may be used only by recording format, etc.) Photo: JPEG Audio: WAV Other: custom pictures, metadata, and menu settings	Movie: RAW, XF-AVC, XF- HEVC S, XF-AVC S Audio: WAV Other: custom pictures and metadata					
Available Options for Second Card Recording								
Recording Mode	Second Card Recording							
	Off	Proxy Rec	Sub Rec	Audio Rec	Relay Recording ²	Double Slot Recording	Crop Rec	Chunk Rec
Normal Recording	●	●	●	●	●	●	● ²	●
Slow & Fast Motion	●	●	● ¹	● ¹	—	—	—	—
S&F Clip / Audio (WAV)	●	—	—	—	—	—	—	—
Pre- Recording ²	●	●	●	—	●	●	●	●
Continuous Recording ^{2,3}	●	—	—	—	—	—	—	—
Frame Recording	●	—	—	—	●	●	—	—
Interval Recording	●	—	—	—	●	●	—	—
Simultaneous recording is available only with normal recording while connected to a network with IP streaming activated.								
¹ Only when the Main Rec Format is RAW.								
² Not available when recording in RAW format.								
³ Not available when recording in XF-AVC format.								

Slow and Fast Motion Recording

Frame rate	Available frame rate for Slow & Fast Motion Recording ¹
59.94P	1, 2, 3, 6, 15, 30, 44, 48, 52, 56, 60, 90, 120, 150, 180
29.97P	1, 2, 3, 6, 15, 22, 24, 26, 28, 30, 32, 36, 40, 44, 48, 52, 56, 60, 90, 120, 150, 180
50.00P	1, 5, 15, 25, 34, 38, 42, 46, 50, 54, 58, 60, 75, 100, 120, 125, 150, 175, 180
25.00P	1, 5, 15, 17, 19, 21, 23, 25, 26, 28, 30, 34, 38, 42, 46, 50, 54, 58, 60, 75, 100, 120, 125, 150, 175, 180
23.98P, 24.00P	1, 2, 3, 6, 12, 16, 18, 20, 22, 24, 26, 28, 30, 32, 36, 40, 44, 48, 52, 56, 60, 72, 96, 120, 144, 150 ² , 168, 180

¹ Maximum frame rate varies by sensor mode. Full Frame 3:2: up to 30P Full Frame: up to 180P. Super 35mm (Cropped): up to 60P. Super 16mm (Cropped): up to 150P.

² Only in Super 16mm (Cropped) sensor mode.

Available Shooting Frame Rates

Configurable frame rate (RAW)

Main Rec Format	Main Resolution	Frame Rate					
		59.94P	29.97P	23.98P	50.00P	25.00P	24.00P
RAW ST, RAW LT	6960x4640	–	1~30	1~30	–	1~30	1~30
RAW HQ	6960x3672	–	1~30	1~30	–	1~30	1~30
RAW ST, RAW LT	5036x2656"	1~60	1~60	1~60	1~60	1~60	1~60
RAW HQ, RAW ST, RAW LT	2524x1332	1~150	1~150	1~150	1~150	1~150	1~150

Configurable frame rate (XF-AVC)

Main Rec Format	Main resolution	Frame rate	Bit rate	Frame rate for Slow & Fast Motion Recording ^{1,2}
XF-AVC YCC422 10bit	4096x2160Intra-frame 3840x2160Intra-frame	59.94P	1200 Mbps	1~60
			900 Mbps, 600 Mbps	1~120
		50.00P	1000 Mbps	1~60
			750 Mbps, 500 Mbps	1~120
		29.97P	600 Mbps	1~60
			450 Mbps, 300 Mbps	1~120
		25.00P	500 Mbps	1~60
			375 Mbps, 250 Mbps	1~120
		24.00P, 23.98P	480 Mbps	1~60
			360 Mbps, 240 Mbps	1~120
	4096x2160LongGOP 3840x2160LongGOP	59.94P, 50.00P	250 Mbps	1~120
		29.97P, 25.00P, 24.00P, 23.98P	150 Mbps	1~120
	2048x1080Intra-frame 1920x1080Intra-frame	59.94P	300 Mbps	1~180
		50.00P	250 Mbps	1~180
		29.97P	150 Mbps	1~180
		25.00P	125 Mbps	1~180
		24.00P, 23.98P	120 Mbps	1~180
	2048x1080LongGOP 1920x1080LongGOP	59.94P, 50.00P, 29.97P, 25.00P, 24.00P, 23.98P	50 Mbps	1~180

¹Up to 60P when the sensor mode is [Super 35mm (Cropped)]

²Up to 150P when the sensor mode is [Super 16mm (Cropped)]

Configurable frame rate (XF-HEVC S) Recording media: CFexpress card				
Main Rec Format	Main resolution	Frame rate	Bit rate	Frame rate for Slow & Fast Motion Recording ^{1,2}
XF-HEVC S YCC422 10bit	6912x4608 Intra-frame	29.97P	1620 Mbps, 1080 Mbps	1~30
		25.00P	1350 Mbps, 900 Mbps	1~30
		24.00P, 23.98P	1730 Mbps	1~24
			1300 Mbps, 864 Mbps	1~30
	6912x4608 LongGOP	29.97P, 25.00P, 24.00P, 23.98P	486 Mbps	1~30
	4096x2160LongGOP 3840x2160LongGOP	59.94P, 50.00P	225 Mbps	1~120
		29.97P, 25.00P, 24.00P, 23.98P	135 Mbps	1~120
XF-HEVC S YCC420 10bit	2048x1080LongGOP 1920x1080LongGOP	59.94P, 50.00P, 29.97P, 25.00P, 24.00P, 23.98P	50 Mbps	1~180
	6912x4608LongGOP	29.97P, 25.00P, 24.00P, 23.98P	360 Mbps	1~30
	4096x2160LongGOP 3840x2160LongGOP	59.94P, 50.00P	150 Mbps	1~120
		29.97P, 25.00P, 24.00P, 23.98P	100 Mbps	1~120
	2048x1080LongGOP 1920x1080LongGOP	59.94P, 50.00P, 29.97P, 25.00P, 24.00P, 23.98P	35 Mbps	1~180
¹ Up to 60P when the sensor mode is [Super 35mm (Cropped)].				
² Up to 150P when the sensor mode is [Super 16mm (Cropped)].				

Configurable frame rate (XF-AVC S) Recording media: CFexpress card				
Main Rec Format	Main resolution	Frame rate	Bit rate	Frame rate for Slow & Fast Motion Recording ^{1,2}
XF-AVC S YCC422 10bit	4096x2160Intra-frame 3840x2160Intra-frame	59.94P	1200 Mbps	1~60
			900 Mbps, 600 Mbps	1~120
		50.00P	1000 Mbps	1~60
			750 Mbps, 500 Mbps	1~120
		29.97P	600 Mbps	1~60
			450 Mbps, 300 Mbps	1~120
		25.00P	500 Mbps	1~60
			375 Mbps, 250 Mbps	1~120
		24.00P, 23.98P	480 Mbps	1~60
			360 Mbps, 240 Mbps	1~120
	4096x2160LongGOP 3840x2160LongGOP	59.94P, 50.00P	250 Mbps	1~120
		29.97P, 25.00P, 24.00P, 23.98P	150 Mbps	1~120
	2048x1080Intra-frame 1920x1080Intra-frame	59.94P	300 Mbps	1~180
		50.00P	250 Mbps	1~180
		29.97P	150 Mbps	1~180
		25.00P	125 Mbps	1~180
		24.00P, 23.98P	120 Mbps	1~180
	2048x1080LongGOP 1920x1080LongGOP	59.94P, 50.00P, 29.97P, 25.00P, 24.00P, 23.98P	50 Mbps	1~180
XF-AVC S YCC420 8bit	4096x2160LongGOP 3840x2160LongGOP	59.94P, 50.00P	150 Mbps	1~120
		29.97P, 25.00P, 24.00P, 23.98P	100 Mbps	1~120
	2048x1080LongGOP 1920x1080LongGOP	59.94P, 50.00P, 29.97P, 25.00P, 24.00P, 23.98P	35 Mbps	1~180

¹Up to 60P when the sensor mode is [Super 35mm (Cropped)].

²Up to 150P when the sensor mode is [Super 16mm (Cropped)].

Crop Recording														
Available configurations														
Primary clip			Crop recording											
			Recording format / Color sampling / Resolution / Scanning method											
			XF-HEVC S						XF-AVC S					
			YCC 422 10bit	YCC 420 10bit	YCC 422 10bit	YCC 420 10bit	YCC 422 10bit	YCC 420 10bit	YCC 422 10bit	YCC 420 8bit	YCC 422 10bit	YCC 420 8bit	YCC 422 10bit	YCC 420 8bit
Recording format	Resolution	Scanning method	1080x2048		1080x1920		1080x1080		1080x2048		1080x1920		1080x1080	
			P						P					
RAW	All	–	–	–	–	–	–	–	–	–	–	–	–	–
XF-AVC YCC422 10bit	4096x2160	P	–	–	–	–	–	–	●	●	–	–	●	●
	3840x1920	P	–	–	–	–	–	–	–	–	●	●	●	●
	All except the above		–	–	–	–	–	–	–	–	–	–	–	–
XF-HEVC S YCC422 10bit	4096x2160	P	●	●	–	–	●	●	–	–	–	–	–	–
	3840x1920	P	–	–	●	●	●	●	–	–	–	–	–	–
	All except the above		–	–	–	–	–	–	–	–	–	–	–	–
XF-HEVC S YCC420 10bit	4096x2160	P	–	●	–	–	–	●	–	–	–	–	–	–
	3840x1920	P	–	–	–	●	–	●	–	–	–	–	–	–
	All except the above		–	–	–	–	–	–	–	–	–	–	–	–
XF-AVC S YCC422 10bit	4096x2160	P	–	–	–	–	–	–	●	●	–	–	●	●
	3840x1920	P	–	–	–	–	–	–	–	–	●	●	●	●
	All except the above		–	–	–	–	–	–	–	–	–	–	–	–
XF-AVC S YCC420 8bit	4096x2160	P	–	–	–	–	–	–	–	●	–	–	–	●
	3840x1920	P	–	–	–	–	–	–	–	–	–	●	–	●
	All except the above		–	–	–	–	–	–	–	–	–	–	–	–

Available values								
Recording format	Resolution	Bit rate	System Frequency / Frame rate					
			59.94 Hz			50.00 Hz		24.00 Hz
			59.94P	29.97P	23.98P	50.00P	25.00P	24.00P
XF-HEVC S YCC422 10bit	1080x2048 1080x1920	50 Mbps L.GOP	●	●	●	●	●	●
	1080x1080	27 Mbps L.GOP	●	●	●	●	●	●
XF-HEVC S YCC420 10bit	1080x2048 1080x1920	35 Mbps L.GOP	●	●	●	●	●	●
	1080x1080	19 Mbps L.GOP	●	●	●	●	●	●
XF-AVC S YCC422 10bit	1080x2048 1080x1920	300 Mbps Intra	●	–	–	–	–	–
		250 Mbps Intra	–	–	–	●	–	–
		150 Mbps Intra	–	●	–	–	–	–
		125 Mbps Intra	–	–	–	–	●	–
		120 Mbps Intra	–	–	●	–	–	●
		50 Mbps L.GOP	●	●	●	●	●	●
	1080x1080	159 Mbps Intra	●	–	–	–	–	–
		133 Mbps Intra	–	–	–	●	–	–
		80 Mbps Intra	–	●	–	–	–	–
		67 Mbps Intra	–	–	–	–	●	–
		64 Mbps Intra	–	–	●	–	–	●
		27 Mbps L.GOP	●	●	●	●	●	●
XF-AVC S YCC420 8bit	1080x2048 1080x1920	35 Mbps L.GOP	●	●	●	●	●	●
	1080x1080	19 Mbps L.GOP	●	●	●	●	●	●
• Cropped recording is not available in these situations. - Full Frame 3:2 or Super 16mm (Cropped) sensor mode - Slow & Fast Motion, Frame Recording, or Interval Recording recording mode • Anamorphic desqueeze is not available for clips recorded cropped. • Cropped video output to an external monitor during recording is not supported.								

Crop Recording

Subject detection (Subject to Detect, Subject Detection AF*, Eye Detection, Face Detection AE, and Tracking) is available in Slow & Fast Motion recording at frame rates of 24P or higher. At frame rates in a range of 1P–150P, other AF-related functions are also available.

*At frame rates of 150P or lower.

Focusing systems	Dual Pixel CMOS AF(CMOS AF) - CMOS AF detection range - When detecting the entire area and subject, approx. 100% (Vertical) x approx. 100% (Horizontal). - Otherwise approx. 100% (Vertical) x approx. 90% (Horizontal) - May be approx. 100% (Vertical) x approx. 80% (Horizontal), approx. 75% (Vertical) x approx. 40% (Horizontal) depending on the lens
AF Modes	Applies when the AF/MF switch of an RF lens is set to AF. - Continuous AF Used to keep continuously focused on a subject. - One-Shot AF AF is performed only while the assignable button assigned to One-Shot AF is pressed. No further lens movement is permitted after focusing. Releasing the assignable button resumes continuous AF if it is enabled. When [Lens action if cannot AF] is set to [Stop] in Continuous AF mode, stop the search when distance measurement is not possible.
AFArea	Small Zone: Video display range approx. 14.7% (Vertical) x 12.2% (Horizontal) Flexible Zone 1: Video display range approx. 38% (Vertical) x 26% (Horizontal) Flexible Zone 2: Video display range approx. 85% (Vertical) x 26% (Horizontal) Flexible Zone 3: Video display range approx. 38% (Vertical) x 77% (Horizontal) Full: approx. 100% (Vertical) x approx. 100% (Horizontal) - The area frame can be moved,* and thickness is adjustable. * Only with options other than [Whole Area] and when digital zoom is off. - Area frame resizing is available for Flexible Zone options 1–3. - Values above are based on these conditions: [Sensor Mode]: [Full Frame]; [Main Resolution]: 4096x2160 or 2048x1080; [Electronic IS]: [Off].
AF Lock	Available.
AF Speed	With compatible lenses, the lens drive speed is configurable.
Subject to Detect	Detects the eyes, face, head, or body of people or the eyes, face, or body of animals, as set in the menu. Setting to [People] targets human subjects for detection. Momentary inability to detect eyes / face / head will cause the camera to prioritize bodies (and when these parts can be detected again, they take precedence). Setting to [Animals] targets both animals and people for detection, and if both are detected, animals are given precedence. In scenes that include multiple subjects for detection, the most fitting main subject for detection results and how the shot is composed is automatically selected. Setting to [People] with autofocus active displays a white frame on the main subject and gray frames on all other subjects detected. Setting to [Animals] only displays a white frame on the main subject out of all animals and people detected.
Subject Detection AF	Controls how AF operation changes, based on the menu setting, if targeted subjects are not detected. Setting to [Detect. Priority] performs AF for any detected main subjects set in [Subject to Detect], or if none are detected, in the specified AF area. Setting to [Detect. Only] performs continuous AF restricted to main subjects set in [Subject to Detect]. The camera keeps focusing on the last detected position of any subjects that become undetectable. Continuous AF resumes when subjects are once again detected.
Subject-Switching Sensitivity	Enables adjustment of how readily the camera switches focus from one main subject to another. Set in a range of 1–5. [1] makes the camera less likely to switch subjects, and [5] makes switching easier.
Eye Detection	Determines which eye is given precedence when two eyes are detected, as set in the menu. Setting to [Auto] targets the eye closest to the camera. If both eyes are the same distance away, the camera targets the eye closer to the center of the configured AF area. Setting to [Right Eye Priority] gives the subject's right eye precedence. Setting to [Left Eye Priority] gives the subject's left eye precedence.

Crop Recording continued	
Tracking	The main subject can be selected for tracking with the joystick or touch panel. Setting the AF area to [Whole Area] AF enables main subject tracking by pressing the joystick in when the camera detects the target subject set in [Subject to Detect]. The joystick can also be pressed left or right to track specific subjects if multiple subjects are detected. Subjects other than those targeted for detection can also be tracked by tapping them. Additionally, regardless of the configured AF area, any preferred subject can be tracked by tapping it or pressing the joystick after using it to move the marker, once the camera is set to tracking selection mode by pressing the assignable button assigned to tracking.
Tracking by Touch Priority	Enables touch-based tracking of any subject regardless of the configured AF area.
Track after Focusing	Enables main subjects targeted for AF to be switched with the focusing ring, when Continuous AF is enabled and this function is set to [On (Tracking Frame)] in the menu. As the focusing ring is turned, based on the focus position, an orange tracking frame is displayed on a potential subject that users can switch to, and when manual focusing stops, the potential subject by the tracking frame is tracked as the main subject. Whether or not to display tracking frames for potential subjects can be set from the menu. Without a subject in focus, no tracking frame is displayed, and the camera does not switch subjects after manual focusing. Disabling the function in the menu disables this tracking after focusing.
Exposure Control	
Exposure Control Modes	• Manual Manual setting using shutter, iris, ISO/Gain, and ND filter. • Push Auto Iris * While the Push Auto Iris button is pressed, the aperture is controlled to achieve proper exposure. If deviation from the proper exposure occurs, it takes control again. • Auto Iris * Constantly adjusts automatically for proper exposure using iris. • Auto ISO/Gain * Constantly adjusts automatically for proper exposure using ISO/Gain. • Auto Shutter* Constantly adjusts automatically for proper exposure using Shutter. • Other - AE Response can be changed in the menu. - Auto ISO/Gain can be used in combination with Auto Iris or Push Auto Iris. * Not available at recording frame rates higher than 150P in Slow & Fast Motion recording.
Metering Modes	Standard (center-weighted metering), Spotlight, Backlight *If [EOS Standard] or [EOS Neutral] is selected in [CP File Selection], the setting value will be grayed out and cannot be selected as photometry is performed in the same way as the EOS R series. Editing the CP File (Gamma adjustment, registering another LUT as a Look File), makes it selectable.
Exposure Compensation	AE shift is available (±8 levels relative to center). Levels (EV values) are indicated numerically.

Shutter							
Shutter mode	Electronic shutter						
Shutter Speeds	1/16000*1*2 –30 sec., bulb *1 Up to 1/8000 sec. when set to HDR mode, focus bracketing, or same exposure for new aperture (ISO speed/ Shutter speed, Shutter speed). *2 1/10000 and 1/12800 sec. can also be selected.						
X-sync Speed	Not provided						
Shutter manual mode		System frequency/Frame rate					
		59.94 Hz			24.00 Hz	50.00 Hz	
		59.94P / 59.94i	29.97P	23.98P	24.00P	50.00P/50.00i	25.00P
Speed ¹	1/3-stop increments	1/1 ~ 1/2000 (34 setting options in total)					
	1/4-stop increments	1/1 ~ 1/2000 (59.94 Hz/24.00 Hz: 47 setting options in total, 50.00 Hz: 45 setting options in total)					
Angle ¹		360°, 240°, 180°, 120°, 90°, 60°, 45°, 30°, 22.5°, 15°, 11.25° Also angle values equivalent to the following shutter speeds: 1/120, 1/100, 1/60, 1/50, 1/40, 3/100, 1/30, 1/25					
Clear Scan ¹		Approx. 24–2000 Hz Within the above range, the frequency can be set with the minimum available resolution depending on the sensor mode and frame rate.					
Slow ²		1/4, 1/8, 1/15, 1/30	1/4, 1/8, 1/15	1/3, 1/6, 1/12		1/3, 1/6, 1/12, 1/25	1/3, 1/6, 1/12
Off ¹		1/60	1/30	1/24	1/24	1/50	1/25
¹ When slow & fast motion recording is activated, available setting options will vary depending on the selected shooting frame rate. ² Not available when slow & fast motion recording is activated.							
Custom Picture							
Item	Corre		Characteristics				
CP File	C1: Canon 709		Gamma provides a wide dynamic range with contrast and is suitable for use without postprocessing. Output to a BT. 709 compliant monitor.				
	C2: Canon Log 2		Gradations best suited to post-processing. Has characteristics similar to film, making it easy to work with in log space grading.				
	C3: Canon Log 3		Gradations best suited to post-processing. This is a gamma feature for simple grading that sticks to tightening shading and adjusting tones.				
	C4: BT. 709 Wide DR		Video-based gamma setting with wide dynamic range. Outputs to TV monitor.				
	C5: BT. 709 Standard		Gamma according to the ITU-R BT. 709 standard.				
	C6: PQ		Gamma compliant with ITU-R BT.2100-0 PQ specifications.				
	C7: HLG		Gamma compliant with ITU-R BT.2100-0 HLG specifications.				
	C8: EOS Standard						
	C9: EOS Neutral						
	C10: User10 ~ User20						

Photo

Recording pixel count

Image size		Resolution (Pixels)				
		Still photo cropping / aspect ratio				
		3:2	1.6x (crop) ¹	1:1	4:3	16:9
JPEG / HEIF	L	Approx. 32.3 megapixels (6960×4640)	Approx. 12.4 megapixels (4320×2880)	Approx. 21.5 megapixels (4640×4640)	Approx. 28.6 megapixels ² (6160×4640)	Approx. 27.2 megapixels ² (6960×3904)
	M	Approx. 15.4 megapixels (4800×3200)		Approx. 10.2 megapixels (3200×3200)	Approx. 13.6 megapixels ² (4256×3200)	Approx. 12.9 megapixels ² (4800×2688)
	S1	Approx. 8.1 megapixels ² (3472×2320)		Approx. 5.4 megapixels (2320×2320)	Approx. 7.1 megapixels ² (3072×2320)	Approx. 6.8 megapixels ² (3472×1952)
	S2	Approx. 3.8 megapixels (2400×1600)	Approx. 3.8 megapixels (2400×1600)	Approx. 2.6 megapixels (1600×1600)	Approx. 3.4 megapixels ² (2112×1600)	Approx. 3.2 megapixels ² (2400×1344)
RAW	RAW / C RAW	Approx. 32.3 megapixels (6960×4640)	Approx. 12.4 megapixels (4320×2880)	Approx. 32.3 megapixels (6960×4640)		

- Values for recorded pixels are rounded off to the nearest 100,000th.
- RAW/C-RAW images are generated in [3:2], and the set aspect ratio information is appended to the images.
- JPEG/HEIF images are generated in the set aspect ratio.
- These aspect ratios and pixel counts also apply to resizing.

¹ Angle of view of approx. 1.6 times the indicated focal length.

² Indicate an inexact proportion.

Drive System

[Max. approx.]

Drive mode	AF operation	Electronic Shutter
Single shooting		Yes
High-speed continuous shooting +	One-Shot AF AI Focus AF Servo AF	40 shots/sec. ¹
High-speed continuous shooting	One-Shot AF AI Focus AF Servo AF	20 shots/sec. ^{1,2}
Low-speed continuous shooting	One-Shot AF AI Focus AF Servo AF	5.0 shots/sec.
Self-timer: 10 sec.		Yes
Self-timer: 2 sec.		Yes
Self-timer: Continuous		Yes

- For details on the measurement conditions, see “22.3.1 Continuous shooting speed measurement conditions for High-speed continuous shooting + and High-speed continuous shooting”.
- For details on factors that reduce maximum continuous shooting speed, see “22.3.2 Factors that reduce maximum continuous shooting speed”.
- Expressed to two significant digits.
- Zooming during continuous shooting with electronic shutter may, depending on the lens, cause changes in exposure even at the same f/number. For details on relevant lenses, refer to the “OTH_03” lens list (even with zoom lenses that are not listed, sudden zooming may cause changes in exposure or flickering).

¹ Operates in mode C with a lens attached that is not in the “OTH_08” lens list.

² Continuous shooting speed decreases when flicker is detected.