

# EOS FULL-FRAME POWER DSLR COMPARISON CHART


**EOS 1D X**  
 Mark II

**EOS 5Ds**

**EOS 5Ds R**

**EOS 5D**  
 Mark III

**EOS 6D**

<b>CMOS Sensor</b>	20.2 Megapixels Full-frame CMOS	50.6 Megapixels Full-frame CMOS	50.6 Megapixels Full-frame CMOS	22.3 Megapixels Full-frame CMOS	20.2 Megapixels Full-frame CMOS
<b>Image Processor</b>	Dual DIGIC 6+ Dedicated DIGIC 6 for metering	Dual DIGIC 6	Dual DIGIC 6	DIGIC 5+	DIGIC 5+
<b>ISO Range*</b>	<b>Still</b>	ISO 100–51200 (Expandable ISO 50–409600)	ISO 100–6400 (Expandable ISO 50–12800)	ISO 100–6400 (Expandable ISO 50–12800)	ISO 100–25600 (Expandable ISO 50–102400)
	<b>Video</b>	4K ISO 100–12800 (Expandable ISO 100–204800)	ISO 100–6400 (Expandable ISO 100–12800)	ISO 100–6400 (Expandable ISO 100–12800)	ISO 100–12800 (Expandable ISO 100–25600)
		Full HD ISO 100–25600 (Expandable ISO 100–204800)			
<b>Low-pass Filter Cancellation Effect</b>	-	-	Yes	-	-
<b>Maximum Frames Per Second</b>	14 fps** 16 fps** in Live View Mode	5.0 fps	5.0 fps	6.0 fps	4.5 fps
<b>Top Shutter Speeds Range</b>	30–1/8000 sec.	30–1/8000 sec.	30–1/8000 sec.	30–1/8000 sec.	30–1/4000 sec.
<b>Live View AF Technology</b>	Dual Pixel CMOS AF	Contrast AF	Contrast AF	Contrast AF	Contrast AF
<b>Video Frame Size</b>	4K: 4096 x 2160 Full HD: 1920 x 1080	Full HD: 1920 x 1080 HD: 1280 x 720 SD: 640 x 480	Full HD: 1920 x 1080 HD: 1280 x 720 SD: 640 x 480	Full HD: 1920 x 1080 HD: 1280 x 720 SD: 640 x 480	Full HD: 1920 x 1080 HD: 1280 x 720 SD: 640 x 480
<b>Video Frame Rate</b>	4K: 60p/30p/24p/23.98p Full HD: 120p/60p/30p/24p/23.98p	Full HD: 30p/25p/24p HD: 60p/50p SD: 30p/25p	Full HD: 30p/25p/24p HD: 60p/50p SD: 30p/25p	Full HD: 30p/25p/24p HD: 60p/50p SD: 30p/25p	Full HD: 30p/25p/24p HD: 60p/50p SD: 30p/25p
<b>AF Points</b>	61 selectable AF points 41 Cross-type AF points 5 Dual Cross-type AF points 61 AF points at f/8*	61 selectable AF points 41 Cross-type AF points 5 Dual Cross-type AF points 1 AF point at f/8	61 selectable AF points 41 Cross-type AF points 5 Dual Cross-type AF points 1 AF point at f/8	61 selectable AF points 41 Cross-type AF points 5 Dual Cross-type AF points 1 AF point at f/8	11 AF points 1 Cross-type AF point
<b>Autofocus Sensitivity</b>	EV -3 to 18 (Center AF Point, ISO 100)	EV -2 to 18 (Center AF Point, ISO 100)	EV -2 to 18 (Center AF Point, ISO 100)	EV -2 to 18 (at ISO 100 with f/1.4 lens)	EV -3 to 18 (Center AF Point, ISO 100)
<b>Anti-flicker Feature</b>	Yes	Yes	Yes	-	-
<b>Built-in GPS***</b>	Yes	-	-	-	Yes
<b>Built-in Wi-Fi* ^</b>	-	-	-	-	Yes
<b>Viewfinder</b>	Intelligent Viewfinder II Approx. 100% horizontal/vertical at 0.76x	Intelligent Viewfinder II Approx. 100% horizontal/vertical at 0.71x	Intelligent Viewfinder II Approx. 100% horizontal/vertical at 0.71x	Intelligent Viewfinder Approx. 100% horizontal/vertical at 0.71x	Standard screen Eg-A II Approx. 97% horizontal/vertical at 0.71x
<b>LCD Monitor</b>	3.2" Clear View II LCD Approx. 1,620,000 dots Touch Screen Function	3.2" Clear View II LCD Approx. 1,040,000 dots	3.2" Clear View II LCD Approx. 1,040,000 dots	3.2" Clear View II LCD Approx. 1,040,000 dots	3.0" Clear View LCD Approx. 1,040,000 dots
<b>Recording Media</b>	CF Card (Type I, UDMA 7 supported) + CFast™ Card (CFast 2.0™ supported)	CF Card (Type I, UDMA 7 supported) + SD/SDHC/SDXC Memory Card (UHS-I compatible)	CF Card (Type I, UDMA 7 supported) + SD/SDHC/SDXC Memory Card (UHS-I compatible)	CF Card (Type I, UDMA 7 supported) + SD/SDHC/SDXC Memory Card	SD/SDHC/SDXC Memory Card (UHS-I compatible)
<b>Maximum Burst Rate</b>	CF Card (Standard): Approx. 59 RAW images CF Card (UDMA 7): Approx. 73 RAW images CFast 2.0™ Card: Approx. 170 RAW images	CF Card (Standard): Approx. 12 RAW images CF Card (UDMA 7): Approx. 14 RAW images SD Card (Standard): Approx. 12 RAW images SD Card (UHS-I): Approx. 14 RAW images	CF Card (Standard): Approx. 12 RAW images CF Card (UDMA 7): Approx. 14 RAW images SD Card (Standard): Approx. 12 RAW images SD Card (UHS-I): Approx. 14 RAW images	CF Card (Standard): Approx. 13 RAW images CF Card (UDMA 7): Approx. 18 RAW images SD Card (Standard): Approx. 12 RAW images	SD Card (Standard): Approx. 14 RAW images SD Card (UHS-I): Approx. 17 RAW images
<b>USB Compatibility</b>	USB 3.0	USB 3.0	USB 3.0	USB 2.0	USB 2.0
<b>Body Dimensions (W x H x D)</b>	Approx. 6.22 x 6.60 x 3.25 in. / 158.0 x 167.6 x 82.6mm	Approx. 6.0 x 4.6 x 3.0 in. / 152.0 x 116.4 x 76.4mm	Approx. 6.0 x 4.6 x 3.0 in. / 152.0 x 116.4 x 76.4mm	Approx. 6.0 x 4.6 x 3.0 in. / 152 x 116.4 x 76.4mm	Approx. 5.7 x 4.4 x 2.8 in. / 144.5 x 110.5 x 71.2mm
<b>Weight</b>	Approx. 54.0 oz. / 1530g (CIPA standards) Approx. 47.3 oz. / 1340g (Body only)***	Approx. 32.8 oz. / 930g (CIPA standards) Approx. 29.8 oz. / 845g (Body only)***	Approx. 32.8 oz. / 930g (CIPA standards) Approx. 29.8 oz. / 845g (Body only)***	Approx. 33.5 oz. / 950g (CIPA standards) Approx. 30.3 oz. / 860g (Body only)***	Approx. 26.7 oz. / 755g (CIPA standards) Approx. 24.0 oz. / 680g (Body only)***

# EVOLUTION OF CANON FLAGSHIP DSLR

## EOS-1D<sup>X</sup> Mark II

## EOS-1D<sup>X</sup>

CMOS Sensor	20.2 Megapixel Full-frame CMOS				18.1 Megapixel Full-frame CMOS								
Image Processor	Dual DIGIC 6+ and dedicated DIGIC 6 for metering				Dual DIGIC 5+ and dedicated DIGIC 4 for metering								
Image Sensor	35.9 x 23.9mm, Single-plate CMOS Sensor with Carrier-wave System and Conventional System Sensor Cleaning				36 x 24mm, Single-plate CMOS Sensor with Ultrasonic Wave Motion Cleaning								
ISO Range*	Still	ISO 100–51200, L: 50, HI: 102400, H2: 204800, H3: 409600				ISO 100–51200, L: 50, HI: 102400, H2: 204800							
	Video	4K	ISO 100–12800, H: 51200, HI: 102400, H2: 204800				ISO 100–25600, H: 51200, HI: 102400, H2: 204800						
		Full HD	ISO 100–25600, H: 51200, HI: 102400, H2: 204800				ISO 100–25600, H: 51200, HI: 102400, H2: 204800						
Maximum Frames Per Second	14 fps**, 16 fps** in Live View Mode				12 fps***, 14 fps in Super High Speed Mode								
AF Points	61 selectable AF points, 41 Cross-type AF points, 5 Dual Cross-type AF points 61 AF points at f/8 <sup>†</sup>				61 selectable AF points, 41 Cross-type AF points, 5 Dual Cross-type AF points 5 AF points at f/8								
Autofocus Sensitivity	EV -3 to 18 (Center AF Point, ISO 100 with f/2.8 lens)				EV -2 to 18 (Center AF Point, ISO 100 with f/2.8 lens)								
Autofocus System	61-point Area AF Sensor with full time red illumination in viewfinder; TTL secondary image-forming phase-difference detection system with AF-dedicated CMOS sensor that has max. of 41 cross-type points (lens dependent); One-Shot and AI Servo AF III with EOS iTR AF; Manual focusing confirmation possible with EF lenses; Automatic or manual focus point selection				61-Point High Density Reticular AF with Offset Array Sensor; TTL-AREA-SIR AF-dedicated CMOS Sensor with 41 cross-type points (lens dependant); One-Shot and AI Servo AF III with EOS iTR AF; Manual focusing confirmation possible with EF lenses; Automatic or manual focus point selection								
Live View AF Technology	Dual Pixel CMOS AF				Contrast AF								
RGB Metering Sensor	Approx. 360,000 pixels				Approx. 100,000 pixels								
Lens Aberration Correction	Peripheral Illumination Correction, Chromatic Aberration Correction, Distortion Correction, Diffraction Correction				Peripheral Illumination Correction, Chromatic Aberration Correction								
Video Frame Size	4K: 4096 x 2160, Full HD: 1920 x 1080				Full HD: 1920 x 1080, HD: 1280 x 720, SD: 640 x 480								
Video Frame Rate	4K: 60p / 30p / 24p / 23.98p, Full HD: 120p / 60p / 30p / 24p / 23.98p				Full HD: 30p / 25p / 24p, HD: 60p / 50p, SD: 30p / 25p								
Video Recording Format	4K	MOV	Movie: Motion JPEG, Audio: Linear PCM		MOV	Movie: MPEG-4 AVC/H.264 variable (average) bit rate, Audio: Linear PCM							
	Full HD	MP4	Movie: MPEG4 AVC/H.264 variable (average) bit rate, Audio: AAC			Movie: MPEG-4 AVC/H.264 variable (average) bit rate, Audio: Linear PCM							
Video Recording Size Movie Bit Rate / File Size (Approx.)	4K	MOV	59.94 fps	Motion JPEG	5733 MB/min.	Full HD	MOV	30 fps, 25 fps, 24 fps	AIH	685 MB/min.			
			29.97 fps, 24.00 fps, 23.98 fps	Motion JPEG	3587 MB/min.				IPB	235 MB/min.			
	Full HD	MOV	119.9 fps	AIH	2585 MB/min.	HD	MOV	60 fps, 50 fps	AIH	610 MB/min.			
			59.94 fps	AIH	1298 MB/min.				IPB	205 MB/min.			
			29.97 fps, 24.00 fps, 23.98 fps	IPB	440 MB/min.				SD	MOV	30 fps, 25 fps	IPB	78 MB/min.
				AIH	654 MB/min.								
			MP4	29.97 fps, 24.00 fps, 23.98 fps	AIH				225 MB/min.	IPB	216 MB/min.		
					IPB				431 MB/min.				
		29.97 fps	IPB	87 MB/min.									

4K Frame Grab**	Yes				-			
Anti-flicker Feature	Yes				-			
Picture Style	Auto, Standard, Portrait, Landscape, Fine Detail, Neutral, Faithful, Monochrome, User Defined 1–3				Auto, Standard, Portrait, Landscape, Neutral, Faithful, Monochrome, User Defined 1–3			
White Balance Mode	Auto (Ambience priority/White priority), Daylight, Shade, Cloudy, Tungsten light, White fluorescent light, Flash, Custom 1–5, Color temperature, PC-1–5				Auto, Daylight, Shade, Cloudy/Twilight/Sunset, Tungsten light, White fluorescent, Flash, Custom, Color temperature, PC-1–5			
Built-in GPS***	Yes				-			
Wireless File Transmitter^^	WFT-E8A: IEEE 802.11ac/n/a/g/b wireless LAN support, Maximum Link Speed: 433 Mbps				WFT-E6A: IEEE 802.11n/a/g/b wireless LAN support, Maximum Link Speed: 150 Mbps			
Viewfinder	Intelligent Viewfinder II: Approx. 100% horizontal/vertical at 0.76x				Intelligent Viewfinder: Approx. 100% horizontal/vertical at 0.76x			
LCD Monitor	3.2" Clear View II LCD Approx. 1,620,000 dots, Touch Screen Function				3.2" Clear View II LCD Approx. 1,040,000 dots			
Recording Media	CF Card (Type I, UDMA 7 compatible) + CFast™ Card (CFast 2.0™ supported)				CF Card (Type I or II, UDMA 7 supported) x 2			
Maximum Burst Rate	CF Card (Standard): 59 RAW images, CF Card (UDMA 7): 73 RAW images CFast 2.0™ Card: 170 RAW images				CF Card (Standard): 35 RAW images, CF Card (UDMA 7): 38 RAW images			
	As of February 2016, compatibility has been verified for the following CFast™ memory cards:							
	Manufacturer	Label	Model Numbers	Capacity				
	SanDisk	Extreme PRO CFast 2.0™ Card	SDCFSP-128G-G46B	128 GB				
		Extreme PRO CFast 2.0™ Card	SDCFSP-064G-G46B	64 GB				
	Proper operation can not be guaranteed for all recording media. Long term usage may reduce a CFast™ card's write speed. We recommend users regularly fully format and refresh their card using the "Full Format and Refresh Tool".							
USB Compatibility	USB 3.0				USB 2.0			
HDMI Output	Movie output, Audio output, Time code supported				Movie output, Audio output			
Audio Input	External microphone IN/Line IN terminal: 3.5mm diameter stereo mini jack				External microphone IN terminal: 3.5mm diameter stereo mini jack			
Body Dimensions (W x H x D)	Approx. 6.22 x 6.60 x 3.25 in. / 158.0 x 167.6 x 82.6mm				Approx. 6.2 x 6.4 x 3.3 in. / 158 x 163.6 x 82.7mm			
Weight	Approx. 54.0 oz. / 1530g (CIPA standards), Approx. 47.3 oz. / 1340g (Body only)^^^				Approx. 54.0 oz. / 1530g (CIPA standards), Approx. 47.3 oz. / 1340g (Body only)^^^			



\* Standard output sensitivity. Recommended exposure index.  
 \*\* Continuous shooting speed may vary depending on the shutter speed, the aperture, the lens being used, the battery charge and various camera settings.  
 \*\*\* The maximum continuous shooting speed is restricted to 10 fps when the battery charge is less than 50% or when ISO speed is above 32000. If the camera's internal temperature is low and ISO speed is above 20000, the maximum continuous shooting speed is restricted to 10 fps.  
 † Except when using the Canon EF 50mm f/2.5 Macro, EF 100mm f/2.8 Macro, EF 100mm f/2.8 Macro USM, EF 100mm f/2.8L Macro IS USM and EF 28-80mm f/2.8-4L USM lenses.  
 \*\* Saving a still image from a single movie frame does not result in the same image quality as a normal still image.  
 \*\*\* In certain countries and regions, the use of GPS may be restricted. Therefore be sure to use GPS in accordance with the laws and regulations of your country or region. Be particularly careful when traveling outside your home country. As a signal is received from GPS satellites, take sufficient measures when using in locations where the use of electronics is regulated.  
 ^ Compatible with iOS® versions 7.1/8.4/9.0, Android™ smartphone and tablet versions 4.0/4.1/4.2/4.3/4.4/5.0/5.1. Data charges may apply with the download of the free Canon Camera Connect app. This app helps enable you to upload images to social media services. Please note that image files may contain personally identifiable information that may implicate privacy laws. Canon disclaims and has no responsibility for your use of such images. Canon does not obtain, collect or use such images or any information included in such images through this app.  
 ^^ Optional accessory.  
 ^^ Without battery, cards, body cap or eyecup.

Certain images and effects simulated. Products not shown to scale. Not responsible for typographical errors.  
 © 2016 Canon U.S.A., Inc. All rights reserved. Canon, DIGIC, the DIGIC Logo and EOS are registered trademarks of Canon Inc. in the United States and may be registered trademarks or trademarks in other countries. Canon is an authorized licensee of the CFast 2.0™ trademark, which may be registered in various jurisdictions. Wi-Fi is registered trademark of the Wi-Fi Alliance. All other product names, brand names and logos are trademarks or service marks of their respective owners.

