Canon
SEE IMPOSSIBLE

EOS-1D X
Mark II

THE MARK OF LEGENDS

X Mark II

A REVOLUTION IN SPEED AND PERFORMANCE

BLAZING SPEED, STELLAR QUALITY

Up to 14 fps* in Viewfinder / Up to 16 fps* in Live View Mode

Delivering outstanding performance at speeds of up to 14 fps*, and up to 16 fps* in Live View, the EOS-1D X Mark II camera is loaded with technologies that help facilitate speedy operation. It features a new mirror mechanism designed for highly precise operation with reduced vibration even at incredibly fast speeds, a CMOS sensor with high-speed signal reading that enables speedy image capture and many other features that help ensure that camera operations are performed quickly and precisely.

20.2 Megapixel Full-frame CMOS Sensor

The EOS-1D X Mark II camera features a Canon-developed 20.2 Megapixel full-frame CMOS sensor that not only helps it record more pixels, but also includes gapless micro lenses for enhanced low-light performance. This results in noise reduction in dark portions of the image even at high ISO speeds, and increased sensitivity that contributes to the camera's high-speed image capture rate, accelerating frame-to-frame performance as well as enabling 4K movies (60p/30p) and improved playback.

Dual DIGIC 6+ Image Processors

Dual DIGIC 6+ Image Processors enhance the EOS-1D X Mark II camera's overall performance, featuring improvements such as high-speed processing, up to 14-fps* (up to 16-fps* in Live View) operation for stills and 4K/60p movies, lens distortion and diffraction correction during operation with virtually no effect on the camera's speed, plus fast write times and much more.

ISO Range** of 100–51200 (Expansion to ISO 409600)

Featuring a standard range of ISO 100–51200, the EOS-1D X Mark II camera is incredibly sensitive, shooting at expanded sensitivities down to ISO 50 (L) and up to 102400 (H1), 204800 (H2) and even 409600 (H3).

CFast™ Cards

The EOS-1D X Mark II camera can capture an incredible amount of images and movies with amazing speed. When recording to CFast 2.0™ cards through its new CFast™ card slot, it can record up to 170 full-size RAW files, and JPEGs up to full card capacity at 16 fps. 4K/60p and Full HD/120p video can also be recorded for impressive moviemaking possibilities.

RELIABLE, DURABLE, LONG-LASTING

Weather-resistant Magnesium Alloy Body with 400,000-cycle Shutter

The EOS-1D X Mark II camera is designed to perform superbly even in the most treacherous environments. The body is constructed of rigid, high-strength magnesium alloy and features dust- and weather- sealed ports and mounts for rugged performance. Its shutter has lightweight, carbon-fiber blades, and can maintain up to 16 fps* performance without compromise, for up to 400,000 cycles.

Built-in GPS***

Built-in GPS helps photographers and filmmakers not only tag their images with critical location data, but also adjust the time and timestamp on the camera automatically.

Improved Controls and Grip

The EOS-1D X Mark II camera offers expanded button customization for AF, image quality control and more. It also offers a smaller grip diameter that makes it easy to hold, as well as redesigned buttons for simple identification.

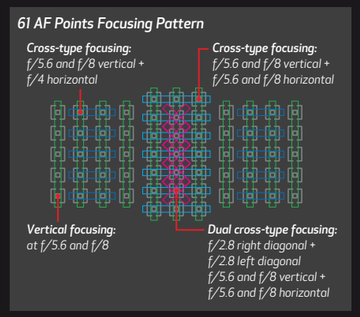
Dual Band Wi-Fi® Compatibility with the Wireless File Transmitter WFT-E8A

The Wireless File Transmitter WFT-E8A, a new optional accessory, features 5 GHz 802.11ac support for high-speed image transfer as well as a revamped user interface. Accommodating both iOS◇ and Android◇◇ devices, it makes it simple to use a smartphone as a remote control for still and video capture. It is conveniently both compact and durable, with excellent dust- and water- resistance.

FAST FOCUS AND ACCURATE METERING

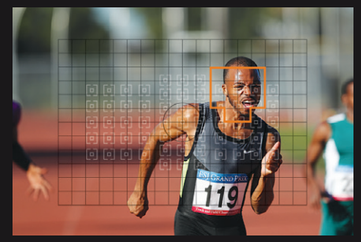
61 AF Points at f/8* and Low-intensity Limit of EV -3

The EOS-1D X Mark II camera features a new 61-point High Density Reticular AF II system with 41 cross-type points. AF point coverage is expanded in the vertical dimension, and AI Servo AF now accommodates sudden changes in subject speed, at default settings, even better than before. The AF system's low-intensity limit has been improved to EV -3 and all 61 AF points are compatible down to f/8* for excellent low-light performance.



iTR AF with 360,000-pixel Metering Sensor

The amazingly advanced 360,000-pixel RGB+IR metering sensor and dedicated DIGIC 6 Image Processor enhance the EOS-1D X Mark II camera's impressive AF performance for both stills and video by increasing the camera's ability to recognize subjects for faster, more precise AF, metering and exposure compensation. This additional exposure and subject information also helps the iTR (Intelligent Tracking and Recognition) AF system maintain focus on a moving subject with a greater level of consistency.



Subject area detection

Intelligent Viewfinder II

The EOS-1D X Mark II camera features a new Intelligent Viewfinder II that can show significantly more information in the LCD display, such as electronic level, a grid, flicker detection, AF information and more. It also provides full-time red illumination for AF points, increasing visibility in dark locations where AF is typically difficult and in situations where the ambient light makes the AF frame difficult to see.

Anti-flicker Shooting

Anti-flicker technology can detect rapid on-off pulsing of certain artificial lights, and adjust shutter timing for exposure at peak brightness. The EOS-1D X Mark II camera refines this, and is now able to detect flicker (in many situations) even if it occurs in small areas of a scene.

OUTSTANDINGLY CINEMATIC VIDEO

4K Video up to 60 fps with 4K Frame Grab and Full HD up to 120 fps

The EOS-1D X Mark II camera can capture huge 4K (Motion JPEG) video at up to 60 fps, recording smoothly to CFast™ cards. It's the first EOS camera able to record Full HD video at 120 fps, easily displaying minute details and ideal for slow-motion video capture. With the new touch panel display, AF points can be easily selected while the camera's rolling, and focus can be quickly confirmed with its 4K still frame grab feature††, wherein an 8.8-Megapixel still image can be selected for review and saved. Incredible low-light performance is provided with video recording at standard ISOs up to 12800 (4K) and 25600 (HD) that can be expanded when needed. Uncompressed HDMI output to external recorders is also possible at 4:2:2 Full HD resolution. 4K videos can be recorded to CFast™ cards as Motion JPEG files, while Full HD can be recorded as MOV or MP4 files.

	Video Recording Size	Frame Rate		Total Recording Time			File Size
				4GB Card	16GB Card	64GB Card	
MOV	4096 x 2160 (4K)	59.94 fps	Motion JPEG	39 sec.	2 min.	10 min.	5733 MB/min.
		29.97 fps/24.00 fps/23.98 fps	Motion JPEG	1 min.	4 min.	17 min.	3587 MB/min.
	1920 x 1080 (Full HD)	119.9 fps	All-I	1 min.	5 min.	23 min.	2585 MB/min.
		59.94 fps	All-I	2 min.	11 min.	47 min.	1298 MB/min.
			IPB	8 min.	34 min.	2 hr. 18 min.	440 MB/min.
		29.97 fps/24.00 fps/23.98 fps	All-I	5 min.	23 min.	1 hr. 33 min.	654 MB/min.
			IPB	16 min.	1 hr. 7 min.	4 hr. 30 min.	225 MB/min.
MP4	1920 x 1080 (Full HD)	59.94 fps	IPB	8 min.	35 min.	2 hr. 21 min.	431 MB/min.
		29.97 fps/24.00 fps/23.98 fps	IPB	17 min.	1 hr. 10 min.	4 hr. 41 min.	216 MB/min.
		29.97 fps	IPB (Light)	43 min.	2 hr. 53 min.	11 hr. 35 min.	87 MB/min.

Dual Pixel CMOS AF

Continuous AF, even during 4K recording, is made easy thanks to the EOS-1D X Mark II camera's Dual Pixel CMOS AF, which is compatible with all Canon EF lenses. Focus points can be selected automatically, or specified on the camera's new touch panel LCD screen. Its Movie Servo AF is compatible with all frame rates and resolutions, and can be customized to set tracking sensitivity, AF speed and even Face Tracking priority.

3.2-inch Touch Panel LCD

The 3.2-inch touch panel TFT LCD monitor has approximately 1.62 million dots and an anti-reflective construction, and also features Canon's Clear View II LCD technology for bright, sharp display in any number of shooting situations. The touch panel allows AF point switching and image magnification during Live View shooting and movie shooting for convenient operation.

SPECIFICATIONS

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
Image Processor / Image Sensor	Dual DIGIC 6+ and dedicated DIGIC 6 for metering / 35.9 x 23.9mm, Single-plate CMOS Sensor with Carrier-wave System and Conventional System Sensor Cleaning
Crop Factor	1.0x (Full-frame)
Special Features	• 20.2 Megapixel Full-frame CMOS sensor • Built-in 3.2" Clear View LCD II monitor (approx. 1,620,000 dots) • 34 Custom Functions in 7 groups • Dual Pixel CMOS AF • 2 Multi-controllers • Simultaneous RAW + JPEG image capture • Multiple Exposures • Dioptric adjustment • Depth-of-field preview • FE Lock • Mirror Lock • In-camera RAW processing • Star rating system • CFast 2.0™ compatible • USB 3.0 SuperSpeed compatible • Magnesium alloy body • Picture Style (9 settings) • Dust removal feature • Live View Function & Face Detection Live mode • 4K Video • Full HD Video • Intelligent Viewfinder II • Lens aberration correction • Built-in GPS***
Video Recording Size	4096 x 2160 (4K): 60p (59.94) / 30p (29.97) / 24p / 23.98p, 1920 x 1080 (Full HD): 120p (119.9) / 60p (59.94) / 30p (29.97) / 24p / 23.98p
Number of Focusing Points	61 selectable AF points, 41 cross-type points (lens dependent), 5 dual cross-type AF points, 61 AF points at f/8
ISO Range**	(Still) ISO 100–51200, L: 50, H1: 102400, H2: 204800, H3: 409600 (Video) ISO 100–25600, H: 51200, H1: 102400, H2: 204800
Recording Media	CF (Type 1, UDMA 7 supported), CFast™ (CFast 2.0™ supported) Cards
Maximum Frames Per Second	Single, 14 fps*, 16 fps* in Live View Mode, 5 fps in Silent High-speed Continuous Shooting
Shutter Speeds	30–1/8000 sec. & Bulb; manually settable in 1/3-, 1/2- or 1-stop increments
Autofocus Sensitivity	EV -3–18 (at 73°F/23°C and ISO 100)
Shutter	Vertical-travel, mechanical, focal-plane shutter with all speeds electronically controlled

Maximum Flash Synchronization Speed	Up to 1/250 sec.
Metering System	TTL full-aperture metering: • 216-zone Evaluative metering • Approx. 6.2% Partial metering • Approx. 1.5% Spot metering • Center spot metering • AF point-linked spot metering • Multi-spot metering • Center-weighted average metering
Metering Sensitivity	EV 0–20 (at 73°F/23°C, ISO 100, with evaluative metering)
Exposure Compensation	Manual: ±5 stops in 1/3-stop or 1/2-stop increments; AEB: ±3 stops in 1/3-stop or 1/2-stop increments
Flash Exposure Compensation	±3 stops in 1/3-stop or 1/2-stop increments
AE Lock	Yes
Exposure Modes	• Program AE (shiftable) • Shutter Speed-priority AE (Safety shift possible) • Aperture-priority AE (Safety shift possible) • Manual Exposure • Bulb • Custom (Three custom shooting modes)
Viewfinder	Intelligent Viewfinder II with adaptable LCD overlay displaying Compositional Grid, AF Selection Modes, AF Points, Area AF Frame and Spot Metering Circle
Viewfinder Coverage	Approx. 100% horizontal and vertical at 0.76x
Viewfinder Information	Inside the picture area: 61 focusing points, 1.5% Spot metering circle. Displayed at the bottom and side of the viewing area: Numeric and textual information with 7-segment LCD. • AF area selection modes • AF point information • Area AF frame • Spot metering circle • Electronic level (dedicated indicator) • Grid display • Shooting mode • Metering mode • White balance • Drive mode • AF operation • Flicker detection
Focusing Screens	Ec-C6 provided, can be changed to Ec-A, B or L
Self-Timer	Electronically controlled with 2- or 10-second delay
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
Weight	Approx. 54.0 oz. / 1530g (CIPA standards) Approx. 47.3 oz. / 1340g (Body only) †††

* Continuous shooting speed may vary depending on the shutter speed, the aperture, the lens being used, the battery charge and various camera settings.
** 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.
*** Standard output sensitivity. Recommended exposure index.
◊ 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.
◊◊ Compatible with Android smartphone and tablet versions 4.0/4.1/4.2/4.3/4.4/5.0/5.1.

† 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.
††† Without battery, cards, body cap, or eyecup.

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