

EOS-1D X Mark II

Seize the moment.
Every. Single. One.

Seize the moment in all situations with the 20MP EOS-1D X Mark II. With lightning fast and precise focusing, image quality with high latitude, incredible levels of detail and sharpness even in low light and 4K movies all from a CMOS sensor designed and made by Canon, the EOS-1D X Mark II enhances the professional photographer's creative workflow as never before.



20.2 MEGA
PIXELS
CMOS

16.0
Frames Per Sec
LiveView Mode

GPS

EOS Movie
4K-FULL HD

Dual Pixel CMOS AF



- A stunning Canon 20.2 MP CMOS sensor with Dual Pixel CMOS AF and a high latitude raises the benchmark for a professional DSLR.
- Expanded 61-point AF system with 41 cross-type AF points, all individually selectable and illuminate red in viewfinder. Even at f/8, all 61 AF points with 21 cross-type points are selectable**. Increased AF precision and tracking with AI Servo AF III+.
- Dual "DIGIC 6+" processors and a new mirror drive system enable ultra high-speed continuous shooting up to 16fps in Live View mode plus a dust-proof and drip-proof body ensures reliability and endurance.
- Capture 4K movies up to 60p internally to new generation CFast 2.0™ media. Incredible focusing with Dual Pixel CMOS AF allows smooth focus transitions while 4K frame grab allows 8.8 MP stills to be taken from a single 4K scene.
- Built-in GPS logs allow accurate tagging of images to make cataloging easier. Transfer your images and movies via built-in Ethernet, SuperSpeed USB3.0 or over Wi-Fi*

* Optional Wi-Fi connectivity via WFT-E8 (5Ghz band supported) or WFT-E6.
** 61 AF and cross-type AF points with select lenses only

Product Range



EOS-1D X Mark II



EOS 5DS R



EOS 5DS

EOS-1D X Mark II
EOS 5DS R
EOS 5DS
EOS 5D Mark III

Canon

Technical Specifications

IMAGE SENSOR

Type	35.9 x 23.9 mm CMOS
Effective Pixels	Approx. 20.2 megapixels
Total Pixels	Approx. 21.5 megapixels
Aspect Ratio	3:2
Low-Pass Filter	Built-in/Fixed
Sensor Cleaning	EOS integrated cleaning system
Colour Filter Type	Primary Colour

IMAGE PROCESSOR

Type	Dual "DIGIC 6+"
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LENS

Lens Mount	EF (excludes EF-S / EF-M lenses)
Focal Length	Equivalent to 1.0x the focal length of the lens

FOCUSING

Type	TTL-secondary image-forming phase-difference detection system with dedicated AF sensor
AF System/ Points	61 Point / max of 41 cross-type AF points inc 5 dual cross type at f/2.8 and 61 points / 21 cross-type AF points at f/8 ⁽¹⁾ The number of cross-type AF points will differ depending on the lens.
AF working range	EV -3 - 18 (at 23°C & ISO100)
AF Modes	One Shot AI Servo AF (AI Servo AF III+)
AF Point Selection	Automatic selection: All 61 point AF (based on EOS iTR AF setting) Manual selection: Single point AF (selectable points 61, 15, 9 or cross type only points selectable) Manual selection: Single point Spot AF Manual selection: AF point Expansion 4 points (up, down, left, right) Manual selection: AF point Expansion surrounding 8 points Manual selection: Zone AF (all AF points divided into 9 focusing zones) Manual selection: Large Zone AF (all AF points divided into 3 focusing zones) AF points can be selected separately for vertical and horizontal shooting
Selected AF point display	Superimposed in viewfinder and shown on Quick Control screen
AF Lock	Locked when shutter button is pressed half way or AF ON is pressed in One Shot AF mode
AF Assist Beam	Emitted by an optional dedicated Speedlite
Manual Focus	Selected on lens
AF Microadjustment	Manual: Enter adjustment +/- 20 steps (wide and tele setting for zoom lenses) Adjust all lenses by same amount Adjust up to 40 lenses individually Adjustments remembered for lens by serial number

EXPOSURE CONTROL

Metering modes	Approx. 360,000-pixel RGB+IR metering sensor, 216-zone metering, EOS Intelligent Subject Analysis system (1) Evaluative metering (linked to All AF point) (2) Partial metering (approx. 6.2% of viewfinder at centre) (3) Spot metering: Center spot metering (approx. 1.5% viewfinder at centre) AF point-linked spot metering Multi-spot metering (4) Centre weighted average metering
Metering Brightness Range	EV 0 - 20 (at 23°C, ISO100, with evaluative metering)
AE Lock	Auto: In the One-Shot AF mode with evaluative metering, AE lock takes effect when focus is achieved Manual: By AE lock button in P, Av, Tv and M modes
Exposure Compensation	+/-5 EV in 1/3 or 1/2 stop increments (can be combined with AEB).
AEB	+/-3 EV in 1/3 or 1/2 stop increments
Anti-flicker shooting	Yes. Flicker detected at a frequency of 100 Hz or 120 Hz. Maximum continuous shooting speed may decrease
ISO sensitivity⁽⁸⁾	Auto 100-51200 (in 1/3-stop or whole stop increments) ISO can be expanded to L:50, H1: 102400, H2: 204800, H3: 409600

SHUTTER

Type	Electronically-controlled focal-plane shutter
Speed	30-1/8000 sec (1/2 or 1/3 stop increments), Bulb (Total shutter speed range. Available range varies by shooting mode)
Shutter Release	Soft touch electromagnetic release

WHITE BALANCE

Type	Auto white balance with the imaging sensor
Settings	AWB (Ambience priority/White priority), Daylight, Shade, Cloudy, Tungsten light, White Fluorescent light, Flash, Custom, Colour Temperature Setting White balance compensation: 1. Blue/Amber +/-9 2. Magenta/ Green +/-9
Custom White Balance	Yes, 5 setting can be registered
WB Bracketing	+/-3 levels in single level increments 3, 2, 5 or 7 bracketed images per shutter release Selectable Blue/Amber bias or Magenta/ Green bias

VIEWFINDER

Type	Pentaprism
Coverage (Vertical/Horizontal)	Approx. 100%
Magnification	Approx. .76x ⁽⁴⁾
Eye point	Approx. 20mm (from eyepiece lens centre)
Dioptre Correction	-3 to +1 m ⁻¹ (dioptre)
Focusing Screen	Interchangeable. Standard Focusing Screen Ec-C6 provided. Can be changed to Ec-A, B or L Quick-return half mirror
Mirror	AF information: Single/Spot AF points, AF Frame, AF status, Focus indicator, AF mode, AF point selection, AF point registration Exposure information: Shutter speed, aperture value, ISO speed (always displayed), AE lock, exposure level/compensation, flash metering, spot metering circle, exposure warning, AEB, metering mode, shooting mode Flash information: Flash ready, high-speed sync, FE lock, flash exposure compensation, red-eye reduction light. Image information: Card information, maximum burst (2 digit display), Highlight tone priority (D+). Composition information: Grid, Electronic level Other information: Battery check, Warning symbol, Flicker Detection, drive mode, white balance, JPEG/RAW indicator
Viewfinder Information	Yes, with Depth of Field preview button
Depth of field preview	Built-in
Eye piece shutter	

LCD MONITOR

Type	8.11 cm (3.2") Clear View LCD II, approx. 1.620K dots
Coverage	Approx. 100%
Viewing Angle (horizontally/vertically)	Approx. 170° vertically and horizontally
Coating	Anti-reflection and Anti-smudge. Reinforced glass incorporated
Brightness Adjustment	Manual: Adjustable to one of seven levels
Touch-screen operations	Capacitive method. During Live View shooting and Movie shooting for AF Point Selection / Switching and for Magnified View. Touch-screen can be disabled
Display Options	(1) Quick Control Screen (2) Camera settings (3) Dual Axis Electronic Level (4) Custom Quick Control Screen

FLASH

Modes	E-TTL II Auto Flash, Metered Manual
X-sync	1/250sec
Flash Exposure Compensation	+/- 3EV in 1/3 increments with EX series Speedlite
Flash Exposure Bracketing	Yes, with compatible External Flash
Flash Exposure Lock	Yes
Second Curtain Synchronisation	Yes

Technical Specifications

HotShoe/ PC terminal	Yes/Yes	EOS Movie	
External Flash Compatibility	E-TTL II with EX series Speedlite, wireless multi-flash support	Movie Type	MOV Video: 4K - Motion JPEG (internal recording only), Full HD - MPEG4 AVC / H.264 variable (average) bit rate, Audio: Linear PCM
External Flash Control	via camera menu screen	Movie Size	MP4 Video: Full HD - MPEG4 AVC/H.264, Audio: AAC 4K (17:9) - 4096 x 2160 Full HD (16:9) - 1920 x 1080
SHOOTING		Movie Length	119.9p/59.94p/29.97p/24.00p/23.98p (with NTSC) 100.0p/50.00p/25.00p/24.00p (with PAL) 119.9p/100.0p in Full HD quality High Frame Rate movie only
Modes	Program AE, Shutter priority AE, Aperture priority AE, Manual (Stills and Movie), Bulb, Custom (x3)	Colour Sampling (Internal recording)	4K - YCbCr4:2:2 (8 bit) Full HD - YCbCr4:2:0 (8 bit)
Picture Styles	Auto, Standard, Portrait, Landscape, Fine Detail, Neutral, Faithful, Monochrome, User Defined (x3)	Movie Length	Max duration 29min 59sec. (excluding High Frame Rate movies). No 4GB file limit with exFAT CF or CFast card
Colour Space	sRGB and Adobe RGB	High Frame Rate Movie	MOV Video: Full HD - 1920 x 1080 at 100fps or 119.9fps Recorded as 1/4-speed slow motion movie Single scene maximum recording up to 7min 29sec.
Image Processing	Highlight Tone Priority Auto Lighting Optimizer (4 settings) Long exposure noise reduction High ISO speed noise reduction (4 settings) Lens optical correction (Not possible with M-RAW and S-RAW): - Peripheral illumination correction - Chromatic aberration correction - Distortion correction (during or after still photo shooting) - Diffraction correction (during or after still photo shooting) - Digital Lens Optimizer (after still photo shooting) Resize to M1, M2 or S (frame grab images from 4K movies and images shot in S quality cannot be resized) Cropping: JPEG images can be cropped (Aspect ratio is fixed - 3:2 or 2:3) - 41 cropping sizes selectable, from 13% to 95% (diagonal) - Switch between vertical and horizontal cropping orientation - Cropping frame can be moved using touch screen operation RAW image processing - during image Playback only Multiple exposure	4K Frame Grab	8.8 megapixel JPEG still image frame grab from 4K movie possible
Drive modes	Single, Continuous High, Continuous Low, Silent single, Silent Continuous High, Silent Continuous Low, Self timer (2s+remote, 10s+remote)	Bitrate / Mbps	MOV: 4K (59.94p/50.00p): Approx. 800 Mbps 4K (29.97p/25.00p/24.00p/23.98p): Approx. 500 Mbps Full HD (119.9p/100.0p)/ALL-I: Approx. 360 Mbps Full HD (59.94p/50.00p)/ALL-I: Approx. 180 Mbps Full HD (59.94p/50.00p)/IPB: Approx. 60 Mbps Full HD (29.97p/25.00p/24.00p/23.98p)/ALL-I: Approx. 90 Mbps Full HD (29.97p/25.00p/24.00p/23.98p)/IPB (Standard): Approx. 30 Mbps MP4: Full HD (59.94p/50.00p)/IPB (Standard): Approx. 60 Mbps Full HD (29.97p/25.00p/24.00p/23.98p)/IPB (Standard): Approx. 30 Mbps Full HD (29.97p/25.00p)/IPB (Light): Approx. 12 Mbps
Continuous Shooting	Max. Approx. 14fps, with full AF / AE tracking, speed maintained for up to unlimited number of JPEGs or 170 RAW images, with CFast 2.0™ card ⁽¹⁾ ⁽²⁾ ⁽³⁾ Max. 16fps in Live View mode with mirror locked up and exposure and AF locked on first frame	Microphone	Built-in monaural microphone (48Khz, 16 bit x 2 ch)
LIVE VIEW MODE		HDMI Display	External monitor only, External Monitor only without information display or Simultaneous on camera and external monitor
Type	Electronic viewfinder with image sensor	HDMI Output	Full HD recording only, uncompressed YCbCr 4:2:2, 8-bit, sound output via HDMI is also possible
Coverage	Approx. 100% (horizontally and vertically)	Focusing	Dual Pixel CMOS AF with Face Detection and Tracking AF, Movie Servo AF Manual Focus
Frame Rate	29.97 fps	ISO	4K - Auto: 100-12800, H: 25600, H1: 51200, H2: 102400, H3: 204800 Full HD - Auto: 100-25600, H: 51200, H1: 102400, H2: 204800
Focusing	Manual Focus (Magnify the image 5x or 10x at any point on screen) Autofocus: Dual Pixel CMOS AF (Face Detection and Tracking AF, Flexi-Zone - Single), available with all EF lenses Partial metering (approx. 6.5% of Live View screen) Spot metering (approx. 2.8% of Live View screen) Center-weighted average metering Active metering timer can be changed	BUILT-IN GPS	
Metering	Real-time evaluative metering with image sensor (315-zone) Spot metering (approx. 2.8% of Live View screen) Center-weighted average metering Active metering timer can be changed	Geotag Information	Longitude, Latitude, Elevation, Coordinated Universal Time
Display Options	3 levels available through INFO. button: No information, Basic shooting information, Histogram Multiple Exposure status also available in Multiple Exposure mode	Positioning Modes	Mode 1: Camera continues to receive GPS signals at regular intervals when power is switched off Mode 2: GPS is switched off when power is switched off
FILE TYPE - STILLS		Position Update Timing	Intervals of 1 sec., 5 sec., 10 sec., 15 sec., 30 sec., 1 min., 2 min. or 5 min.
Still Image Type	JPEG: 10 compression options RAW: RAW, M-RAW, S-RAW (14bit, Canon original RAW 2nd edition) Complies with Exif 2.30 and Design rule for Camera File system 2.0 Complies with Digital Print Order Format [DPOF] Version 1.1	Position Accuracy	Within approx. 30 m/98.4 ft (Based on good GPS satellite reception conditions on a clear day with no surrounding obstructions)
RAW+JPEG simultaneous recording	Yes, any combination of RAW + JPEG possible, separate formats to separate cards possible	Compatible Satellite Navigation Systems	• GPS satellites (USA) • GLONASS satellites (Russia) • Quasi-Zenith Satellite Michibiki (Japan)
Image Size	JPEG: (L) 5472x3648, (M1) 4368x2912, (M2) 3648x2432, (S) 2736x1824 RAW: (RAW) 5472x3648, (M-RAW) 4104x2736, (S-RAW) 2736x1824	Log File Format	NMEA Format. One log file per day based
Folders	New folders can be manually created and selected	Log File Usage	Transfer log data to memory card and copy it to a computer Use Map Utility to append the log file to the images Not provided
File Numbering	(1) Consecutive numbering (2) Auto reset (3) Manual reset	Digital Compass	
		OTHER FEATURES	
		Custom Functions	34 Custom Functions with 104 settings
		Metadata Tag	User copyright information (can be set in camera) Image rating (0-5 stars) Image transfer with caption (Caption registered with EOS Utility)
		LCD Panel / Illumination	Yes / Yes
		Water / Dust resistance	Yes
		Voice Memo	Up to 30sec per image - 48Khz/16 Bit or 8Khz/8 Bit
		Intelligent Orientation Sensor	Yes
		Playback zoom	1.5x - 10x

Technical Specifications

Display Formats

(1) Single image
 (2) Single image with information (2 levels - Basic and Detailed)
 Lens information and RGB histogram
 White balance
 Picture Style
 Color space and noise reduction
 Lens optical correction
 GPS information
 (3) 4 image index
 (4) 9 image index
 (5) 36 image index
 (6) 100 image index
 (7) Jump Display (1, 10 or 100 images, Date, Folder, Movies, Stills, Protected images, Rating)
 (8) Movie edit
 (9) RAW processing
 (10) Rating

Slide Show

Image selection: All images, by Date, by Folder, Movies, Stills, Protected images, Rating
 Playback time: 1/2/3/5/10 or 20 seconds
 Repeat: On/Off

Histogram

Brightness: Yes
 RGB: Yes

Highlight Alert

Yes

Image Erase

Single image, Selected images, Folder, Card

Image Erase Protection

Erase protection of Single image, Folder or Card

Self Timer

2 or 10 sec.

Menu Categories

(1) Shooting menu 1 - 6
 (2) AF Menu 1 - 5
 (3) Playback menu 1 - 3
 (4) Setup menu 1 - 4
 (5) Custom Functions menu 1 - 8
 (6) My Menu (1 - 5 user selectable)

Menu Languages

25 Languages
 English, German, French, Dutch, Danish, Portuguese, Finnish, Italian, Norwegian, Swedish, Spanish, Greek, Russian, Polish, Czech, Hungarian, Romanian, Ukrainian, Turkish, Arabic, Thai, Simplified Chinese, Traditional Chinese, Korean and Japanese

Firmware Update

Update possible by the user (Camera, Lens, WFT, External Speedlite)

INTERFACE

Computer

SuperSpeed USB 3.0

Other

HDMI mini out (Type C, HDMI-CEC compatible), System Extension Terminal (for WFT-E8 and WFT-E6), External Microphone In / Line In (Stereo mini jack), Headphone socket (Stereo mini jack), RJ-45 (gigabit ethernet), N3-type terminal (remote control terminal)

DIRECT PRINT

Canon Printers

Canon Compact Photo Printers and PIXMA Printers

PictBridge

Yes

STORAGE

Type

1x CompactFlash Type I (UDMA 7 compatible)
 (Incompatible with Type II and Microdrive)
 1x CFast 2.0™

SUPPORTED OPERATING SYSTEM

PC & Macintosh

Windows 7 (excl. Starter Edition) Windows 8 and Windows 10
 OS X v10.7-10.11

SOFTWARE

Image Processing

Digital Photo Professional 4 (RAW Image Processing)
 EOS Utility 3 (inc. Remote Capture), Picture Style Editor

Other

POWER SOURCE

Batteries

Rechargeable Li-ion Battery LP-E19 (supplied) / LP-E4N / LP-E4

Battery life

Approx. 1210 shots (at 23°C)^[5]
 Approx. 1020 (at 0°C)

Battery Indicator

6 levels + percentage

Power saving

Power turns off after 1, 2, 4, 8, 15 or 30mins

Power Supply & Battery Chargers

Battery charger LC-E19 (supplied), AC Adapter AC-E19, DC Coupler DC-E19, AC Adapter kit ACK-E4

PHYSICAL SPECIFICATIONS

Body Materials

Magnesium Alloy body covers

Operating Environment

0 – 45 °C, 85% or less humidity

Dimensions (W x H x D)

158 x 167.6 x 82.6mm

Weight (body only)

Approx. 1340 g

ACCESSORIES

Viewfinder

Eyecup Eg, Eg-series Dioptic Adjustment Lens with Rubber Frame Eg, Anti Fog Eyepiece Eg, Angle Finder C

Wireless File Transmitter

Wireless File Transmitter WFT-E8
 Wireless File Transmitter WFT-E6

Lenses

All EF lenses (excluding EF-S / EF-M lenses)

Flash

Canon Speedlite (90EX, 220EX, 270EX, 270EX II, 320EX, 380EX, 420EX, 430EX, 430EX II, 430EX III 550EX, 580EX, 580EX II, 600EX, 600EX-RT, Macro-Ring-Lite MR-14EX, Macro Ring Lite MR-14EX II, Macro Twin Lite MT-24EX, Speedlite Transmitter ST-E2, Speedlite Transmitter ST-E3-RT)

Remote Controller/ Switch

Remote control with N3 type contact, Wireless Controller LC-5 and Speedlite 600EX-RT

Other

Hand Strap E2, Connect Station CS100

Footnotes

[1] Large/Fine(Quality 8) resolution

[2] Based on Canon's testing conditions, JPEG, ISO 100, Standard Picture Style. Maximum fps and buffer capacity may be reduced depending on the camera settings, light level, subject, memory card brand and capacity, image recording quality, ISO speed, drive mode, Picture Style, Custom functions etc.

[4] with 50mm lens at infinity, -1 m⁻¹ dpt

[5] Viewfinder shooting. Based on the CIPA Standard and using the battery supplied with the camera, except where indicated

[8] Recommended Exposure Index

[10] Figures quoted are when used with UDMA7 class cards

[11] The number of AF points, cross-type AF points, and dual cross-type AF points vary depending on the lens used

[12] AF off, exposure fixed based on first shot

All data is based on Canon standard testing methods except where indicated.
 Subject to change without notice.

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Sales Start Date: May 2016

Product Details:

Product Name	Mercury Code	EAN Code	Recommended Retail Price
Digital Camera EOS-1D X Mark II Body	0931C009AA	8714574635239	£5199.99 / €6999.99

Optional Accessories:

Product Name	Mercury Code	EAN Code	Recommended Retail Price
WFT-E8B	1173C007AA	4549292066487	n/a
Battery Pack LP-E19	1169C002AA	4549292060560	n/a
Battery Charger LC-E19	1170C003AA	4549292060591	n/a
AC Adapter AC-E19	1171C003AA	4549292068795	n/a
DC Coupler DR-E19	1172C001AA	4549292066050	n/a
Focusing Screen EC-C6	1168C001AA	4549292060539	n/a

Measurement / Logistic Information:

Product Name	Mercury Code	Pack type	Pack description	Quantity per pack	Length (mm)	Width (mm)	Height (mm)	Gross Weight (kg)
Digital Camera EOS-1D X Mark II Body	0931C009AA	EA	Each	1	241	200	198	2.6025
		CT	Carton	4	420	416	289	11.4800
		EP	Euro Pallet	24	120	80	101.7	78.4
			Layers per Pallet	3				
			Cartons per Layer	2				

What's in the box?

- Digital Camera EOS-1D X Mark II (with body cap)
- Eyecup Eg
- Battery Pack LP-E19 (with protective cover)
- Battery Charger LC-E19
- Wide Strap
- Interface Cable IFC-150U II
- Cable Protector