

# Specifications (EOS-1D X Mark II)

Type	Type	Digital, single-lens reflex, AF/AE camera
	Recording media	CF cards (Type I, UDMA 7 supported) CFast cards (CFast 2.0 supported)
	Image sensor size	Approx. 35.9 x 23.9 mm
	Compatible lenses	Canon EF lenses * Excluding EF-S and EF-M lenses (The effective angle of view of a lens is approximately equivalent to that of the focal length indicated.)
	Lens mount	Canon EF mount
Image Sensor	Type	CMOS sensor
	Effective pixels	Approx. 20.2 megapixels * Rounded off to the nearest 10,000th.
	Aspect ratio	3:2
	Dust delete feature	Auto/Manual, Appending Dust Delete Data
Recording System	Recording format	Design rule for Camera File System (DCF) 2.0
	Image type	JPEG, RAW (14-bit Canon original), RAW+JPEG simultaneous recording possible
	Pixels recorded	L (Large): Approx. 20.0 megapixels (5472 x 3648) M1 (Medium 1): Approx. 12.7 megapixels (4368 x 2912) M2 (Medium 2): Approx. 8.9 megapixels (3648 x 2432) S (Small): Approx. 5.0 megapixels (2736 x 1824) RAW: Approx. 20.0 megapixels (5472 x 3648) M-RAW: Approx. 11.2 megapixels (4104 x 2736) S-RAW: Approx. 5.0 megapixels (2736 x 1824)
	Recording function	Standard, Auto switch card, Record separately, Record to multiple
	Create/select a folder	Possible
	File name	Preset code / User setting 1 / User setting 2
	File numbering	Continuous, Auto reset, Manual reset
Image Processing During Shooting	Picture Style	Auto, Standard, Portrait, Landscape, Fine Detail, Neutral, Faithful, Monochrome, User Defined 1 - 3
	White balance	Auto (Ambience priority), Auto (White priority), Preset (Daylight, Shade, Cloudy, Tungsten light, White fluorescent light, Flash), Custom (5 settings), Color temperature setting (approx. 2500-10000 K), Personal white balance (5 settings), White balance correction and white balance

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		bracketing features provided * Flash color temperature information transmission possible
	Automatic image brightness correction	Auto Lighting Optimizer provided
	Noise reduction	Applicable to high ISO speed shots and long exposures
	Highlight tone priority	Provided
	Lens aberration correction	Peripheral illumination correction, Chromatic aberration correction, Distortion correction, and Diffraction correction
Viewfinder	Type	Eye-level pentaprism
	Coverage	Vertical/Horizontal approx. 100% (with eyepoint approx. 20 mm)
	Magnification	Approx. 0.76x (-1 m <sup>-1</sup> with 50mm lens at infinity)
	Eyepoint	Approx. 20 mm (from eyepiece lens center at -1 m <sup>-1</sup> )
	Dioptric adjustment range	Approx. -3.0 - +1.0 m <sup>-1</sup> (dpt)
	Eyepiece shutter	Built-in
	Focusing screen	Ec-C6 provided, interchangeable
	Grid display	Provided
	Electronic level	Provided
	Function setting display	Image type: JPEG/RAW, Shooting mode, Metering mode, White balance, Drive mode, AF operation, Flicker detection, Warning! indicator, AF status indicator
	Mirror	Quick-return type
	Depth-of-field preview	Provided
Autofocus (during viewfinder shooting)	Type	TTL secondary image-registration, phase-difference detection with the dedicated AF sensor
	AF points	Max. 61 points (Cross-type AF point: Max. 41 points) * Number of available AF points, Dual cross-type AF points, and cross-type AF points vary depending on the lens used. * Dual cross-type focusing at f/2.8 with 5 AF points vertically aligned at the center.
	Focusing brightness range	EV -3 - 18 (Conditions: f/2.8-sensitive center AF point, One-Shot AF, room temperature, ISO 100)
	Focus operation	One-Shot AF, AI Servo AF, Manual focusing (MF)

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	AF area selection mode	Single-point Spot AF (manual selection), Single-point AF (manual selection), AF point expansion (manual selection: up, down, left, and right), AF point expansion (manual selection: surround), Zone AF (manual selection of zone), Large zone AF (manual selection of zone), Automatic selection AF
	AF point automatic selection conditions	Based on EOS iTR AF setting (Enables AF incorporating human face/color information) * iTR: Intelligent Tracking and Recognition
	AF Configuration Tool	Case 1 - 6
	AI Servo AF characteristics	Tracking sensitivity, Acceleration/deceleration tracking, AF point auto switching
	AF function customization	17 functions
	AF fine adjustment	AF Microadjustment (All lenses by the same amount, Adjust by lens)
	AF-assist beam	Emitted by the EOS-dedicated external Speedlite
Exposure Control	Metering mode	Approx. 360,000-pixel RGB+IR metering sensor and 216-zone TTL open-aperture metering EOS iSA (Intelligent Subject Analysis) system <ul style="list-style-type: none"> <li>▪ Evaluative metering (linked to all AF points)</li> <li>▪ Partial metering (approx. 6.2% of viewfinder at center)</li> <li>▪ Spot metering (approx. 1.5% of viewfinder at center)</li> </ul> * Spot metering and Multi-spot metering linkable to AF point <ul style="list-style-type: none"> <li>▪ Center-weighted average metering</li> </ul>
	Metering brightness range	EV 0 - 20 (at room temperature, ISO 100, with evaluative metering)
	Shooting mode	Program AE, Shutter-priority AE, Aperture-priority AE, Manual exposure, Bulb exposure, Custom shooting modes (C1/C2/C3)
	ISO speed (Recommended exposure index)	ISO Auto, ISO 100 - ISO 51200 manual setting (in 1/3- or whole-stop increments) and expandable to L (equivalent to ISO 50), H1 (equivalent to ISO 102400), H2 (equivalent to ISO 204800), and H3 (equivalent to ISO 409600) provided. * If highlight tone priority is set, the settable ISO speed range will be ISO 200 - ISO 51200.
	ISO speed settings	Still photo shooting range, Auto range, Auto minimum speed settable

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	Exposure compensation	Manual: $\pm 5$ stops in 1/3- or 1/2-stop increments AEB: $\pm 3$ stops in 1/3- or 1/2-stop increments (can be combined with manual exposure compensation)
	AE lock	Auto: Applied in One-Shot AF mode with evaluative metering when focus is achieved Manual: With AE lock button
	Flicker reduction	Possible
Multiple Exposures	Shooting method	Function/control priority, Continuous shooting priority
	Number of multiple exposures	2 to 9 exposures
	Multiple-exposure control	Additive, Average, Bright, Dark
Shutter	Type	Electronically-controlled, focal-plane shutter
	Shutter speed	1/8000 sec. to 30 sec. (total shutter speed range; available range varies by shooting mode), Bulb, X-sync at 1/250 sec.
Drive System	Drive mode	Single, High-speed continuous, Low-speed continuous, Silent single shooting, Silent high-speed shooting, Silent low-speed shooting, 10-sec. self-timer, 2-sec. self-timer
	Continuous shooting speed	<p>High-speed continuous shooting</p> <p>Viewfinder shooting: Maximum approx. 14.0 fps (settable within 2 fps to 14 fps)</p> <p>Live View shooting: Maximum approx. 16.0 fps (settable within 2 fps to 14 fps and 16 fps)</p> <p>* With ISO H1 (equivalent to ISO 102400) or higher (ISO 32000 or higher if the camera's internal temperature is low), the maximum continuous shooting speed during high-speed continuous shooting will be no faster than 10.0 fps during viewfinder shooting or 14.0 fps during Live View shooting (with Battery Pack LP-E19).</p> <p>* The maximum continuous shooting speed during high-speed continuous shooting may become slower depending on the power source type, battery level, temperature, ISO speed, flicker reduction, shutter speed, aperture, subject conditions, brightness, lens, flash use, shooting function settings, etc.</p> <p>* If "16 fps" is set during Live View shooting, flash will not be fired.</p> <p>Low-speed continuous shooting: Approx. 3.0 fps (settable within 1 fps to 13 fps)</p> <p>Silent high-speed continuous shooting: Approx. 5.0 fps maximum (settable within 2 fps to 5 fps)</p>

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		Silent low-speed continuous shooting: Approx. 3.0 fps maximum (settable within 1 fps to 4 fps)
	Max. burst	<p>JPEG Large: CF card: Standard: Approx. 140 shots / High speed: Full CFast card: Full</p> <p>RAW: CF card: Standard: Approx. 59 shots / High speed: Approx. 73 shots CFast card: Approx. 170 shots</p> <p>RAW+JPEG Large: CF card: Standard: Approx. 48 shots / High speed: Approx. 54 shots CFast card: Approx. 81 shots</p> <p>* Based on Canon's standard testing CF card (Standard: 8 GB/High speed: UDMA mode 7, 64 GB) and CFast card (CFast 2.0, 128 GB) and the following testing conditions: Viewfinder shooting, High-speed continuous shooting, JPEG quality 8, ISO 100, and Standard Picture Style. * "Full" indicates that shooting is possible until the card becomes full.</p>
External Speedlite	Compatible Speedlites	EX-series Speedlites
	Flash metering	E-TTL II autoflash
	Flash exposure compensation	±3 stops in 1/3- or 1/2-stop increments
	FE lock	Provided
	PC terminal	Provided
	Flash control	Flash function settings, Flash C.Fn settings
Live View Shooting	Focus method	Dual pixel CMOS AF
	AF method	Face+Tracking, FlexiZone - Single Manual focusing (approx. 5x and 10x magnification available for focus check) * AF possible with touchscreen operation.
	Focusing brightness range	EV -3 - 18 (at room temperature, ISO 100)
	Metering mode	Evaluative metering (315 zones), Partial metering (approx. 6.5% of Live View screen), Spot metering (approx. 2.8% of Live View screen), Center-weighted average metering
	Metering brightness range	EV 0 - 20 (at room temperature, ISO 100, with evaluative metering)

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	Exposure compensation	±5 stops in 1/3- or 1/2-stop increments
	Silent Live View shooting	Provided (Mode 1 and 2)
	Grid display	3 types
Movie Shooting	Recording format	MOV, MP4 Movie: 4K: Motion JPEG Full HD: MPEG-4 AVC/H.264 Variable (average) bit rate Audio: MOV: Linear PCM, MP4: AAC
	Movie recording size	4K (4096x2160), Full HD (1920x1080)
	Frame rate	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: Full HD quality High Frame Rate movie
	Movie recording method/Compression rate	Motion JPEG ALL-I (For editing/I-only), IPB (Standard), IPB (Light) * Motion JPEG and ALL-I available only when MOV is set. * IPB (Light) available only when MP4 is set.
	Bit rate	[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
	Card performance requirements (Writing/reading speed)	4K (59.94p/50.00p): CFast 2.0 4K (29.97p/25.00p/24.00p/23.98p): CF UDMA 7: 100 Mbps or faster/CFast 2.0 Full HD (119.9p/100.0p): CF UDMA 7: 100 Mbps or faster/CFast 2.0 Full HD (59.94p/50.00p)/ALL-I: CF UDMA 7: 60 Mbps or faster/CFast 2.0 Full HD (59.94p/50.00p)/IPB: 30 Mbps or faster

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	<p>Full HD (29.97p/25.00p/24.00p/23.98p)/ALL-I: 30 Mbps or faster</p> <p>Full HD (29.97p/25.00p/24.00p/23.98p)/IPB (Standard): 10 Mbps or faster</p> <p>Full HD (29.97p/25.00p)/IPB (Light): 10 Mbps or faster</p>
Focus method	Dual pixel CMOS AF
AF method	Face+Tracking, FlexiZone - Single Manual focusing (approx. 5x and 10x magnification available for focus check)
Movie servo AF	Possible * Movie Servo AF customizable
Focusing brightness range	EV -3 - 18 (at room temperature, ISO 100)
Metering mode	Center-weighted average metering and Evaluative metering with the image sensor * Automatically set by the focus method
Metering brightness range	EV 0 - 20 (at room temperature, ISO 100, with center-weighted average metering)
Exposure control	Autoexposure shooting (Program AE for movie shooting), Shutter-priority AE, Aperture-priority AE, Manual exposure
Exposure compensation	±3 stops in 1/3- or 1/2-stop increments
ISO speed (Recommended exposure index)	<p>[Full HD] P/Tv/Av/B: Automatically set within ISO 100 - ISO 25600, expandable to H (equivalent to ISO 32000/40000/51200), H1 (equivalent to ISO 102400), H2 (equivalent to ISO 204800) M: ISO Auto (automatically set within ISO 100 - ISO 25600), ISO 100 - ISO 25600 set manually (in 1/3- or whole-stop increments), expandable to H (equivalent to ISO 32000/40000/51200), H1 (equivalent to ISO 102400), H2 (equivalent to ISO 204800)</p> <p>[4K] P/Tv/Av/B: Automatically set within ISO 100 - ISO 12800, expandable to H (equivalent to ISO 16000/20000/25600/32000/40000/51200), H1 (equivalent to ISO 102400), H2 (equivalent to ISO 204800) M: ISO Auto (automatically set within ISO 100 - ISO 12800), ISO 100 - ISO 12800 set manually (in 1/3- or whole-stop increments), expandable to H (equivalent to ISO 16000/20000/25600/32000/40000/51200), H1 (equivalent to ISO 102400), H2 (equivalent to ISO 204800)</p>

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	ISO speed settings	Range for movie shooting and 4K settable
	Time code	Appendable
	Drop frames	Compatible with 119.9p/59.94p/29.97p
	Sound recording	Built-in monaural microphone, external stereo microphone terminal, and line input provided Sound-recording level adjustable, wind filter provided, attenuator provided
	Headphones	Headphone terminal provided, sound volume adjustable
	Grid display	3 types
	Still photo shooting	Not possible during movie shooting
	2-image display	LCD monitor and HDMI output can be displayed simultaneously.
	HDMI output	Image without information can be output. * Auto / 59.94i/50.00i / 59.94p/50.00p / 23.98p selectable. * When [24.00p: Enable] is set, the movie image is output at 24.00p via HDMI. * Time code appendable
	Accessory mount	Bottom equipped with positioning hole to prevent rotation.
LCD Monitor	Type	TFT color, liquid-crystal monitor
	Monitor size and dots	Width 3.2 in. (3:2) with approx. 1.62 million dots
	Brightness adjustment	Manual (7 levels)
	Electronic level	Provided
	Interface languages	25
	Touchscreen	Capacitive sensing * Works to move the AF point during Live View and movie shooting (AF enabled), and with magnified view.
	Help display	Possible
	Camera system information	Provided
Playback	Image display format	Single-image display (without shooting information), Single-image display (with basic information), Single-image display (Shooting information displayed: Detailed information, Lens/histogram, White balance, Picture Style 1, Picture Style 2, Color space/noise reduction, Lens aberration correction 1, Lens aberration correction 2, GPS information), Index display (4/9/36/100 images)
	Highlight alert	Overexposed highlights blink

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	AF point display	Provided (may not be displayed depending on shooting conditions)
	Grid display	3 types
	Magnifying view	Approx. 1.5x-10x, initial magnification and position settable
	Image browsing method	Single image, Jump by 10 or 100 images, By shooting date, By folder, By movies, By stills, By protected images, By rating
	Image rotation	Provided
	Image protection	Provided
	Rating	Provided
	Voice memo	Recording/Playback possible
	Movie playback	Enabled (LCD monitor, HDMI), built-in speaker provided
	Start/end movie scene editing	Possible
	4K Frame Grab	Frame Grab can be saved as JPEG image.
	Slide show	All images, By date, By folder, By movies, By stills, By protected images, By rating
	Copying images	Possible
Post-Processing of Images	In-camera RAW image processing	Brightness adjustment, White balance, Picture Style, Auto Lighting Optimizer, High ISO speed noise reduction, JPEG image-recording quality, Color space, Lens aberration correction (Peripheral illumination correction, Distortion correction, Digital lens optimizer, Chromatic aberration correction, Diffraction correction)
	Resize	Provided
	Cropping	Provided
Image Transfer	Transferrable files	Still photos (JPEG, RAW, RAW+JPEG images), Movies
Print Ordering	DPOF	Version 1.1 compliant
GPS Function	Compatible satellites	GPS satellites (USA), GLONASS satellites (Russia), Quasi-Zenith Satellite System (QZSS) MICHIBIKI (Japan)
	GPS signal reception modes	Mode 1, Mode 2
	Geotag information appended to image	Latitude, Longitude, Elevation, Coordinated Universal Time (UTC), Satellite signal acquisition status

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	Position update interval	1 sec., 5 sec., 10 sec., 15 sec., 30 sec., 1 min., 2 min., 5 min.
	Time setting	GPS time data set to camera
	Log data	One file per day, NMEA format * Change in time zone creates another file. * The log data saved in internal memory can be transferred to a card or downloaded to a computer as a log file.
	Log data deletion	Possible
Customization Features	Custom Functions	34
	Custom Quick Control	Provided
	Saving camera settings	Up to ten settings can be registered on a card
	Custom shooting modes	Register under C1, C2, or C3
	My Menu	Up to 5 screens can be registered
	Copyright information	Text entry and appending possible
Interface	DIGITAL terminal	SuperSpeed USB (USB 3.0) Computer communication, Connect Station CS100 connection
	HDMI mini OUT terminal	Type C (Auto switching of resolution), CEC-compatible
	External microphone input/Line input terminal	3.5 mm diameter stereo mini-jack
	Headphone terminal	3.5 mm diameter stereo mini-jack
	Remote control terminal	For N3-type remote control units
	System extension terminal	Wireless File Transmitter WFT-E8/WFT-E6 connection
	Ethernet terminal	RJ-45 terminal, gigabit Ethernet compatible

# Specifications (EOS-1D X Mark II)

Power	Battery	Battery Pack LP-E19/LP-E4N/LP-E4, quantity 1 * AC power usable with household power outlet accessories.
	Battery information	Power source, Battery level, Shutter count, Recharge performance indicated
	Number of possible shots	With viewfinder shooting: Approx. 1210 shots at room temperature (23°C/73°F), approx. 1020 shots at low temperatures (0°C/32°F) With Live View shooting: Approx. 260 shots at room temperature (23°C/73°F), approx. 240 shots at low temperatures (0°C/32°F) * With a fully-charged Battery Pack LP-E19.
	Movie shooting time	Total approx. 2 hr. 20 min. at room temperature (23°C/73°F) Total approx. 2 hr. at low temperatures (0°C/32°F) * With a fully-charged Battery Pack LP-E19, Movie Servo AF disabled, and Full HD 29.97p/25.00p/24.00p/23.98p IPB (Standard).
Dimensions and Weight	Dimensions (W x H x D)	Approx. 158.0 x 167.6 x 82.6 mm / 6.22 x 6.60 x 3.25 in.
	Weight	Approx. 1530 g / 53.97 oz. (Based on CIPA Guidelines) / Approx. 1340 g / 47.27 oz. (Body only)
Operation Environment	Working temperature range	0°C - 45°C / 32°F - 113°F
	Working humidity	85% or less

## Battery Pack LP-E19

Type	Rechargeable lithium-ion battery
Rated voltage	10.8 V DC
Battery capacity	2700 mAh
Working temperature range	During recharging: 5°C - 40°C / 41°F - 104°F During shooting: 0°C - 45°C / 32°F - 113°F
Working humidity	85% or less
Dimensions (W x H x D)	Approx. 68.45 x 34.2 x 92.8 mm / 2.69 x 1.35 x 3.65 in.
Weight	Approx. 185 g / 6.53 oz. (excluding protective cover)

## Battery Charger LC-E19

Compatible battery packs	Battery Pack LP-E19/LP-E4N/LP-E4
Recharge time	LP-E19: Approx. 2 hr. 50 min. per battery LP-E4N/LP-E4: Approx. 2 hr. 20 min. per battery
Rated input	100 - 240 V AC (50/60 Hz)

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Rated output	12.6 V DC, 1.63 A
Power cord	Approx. 2.0 m / 6.6 ft.
Working temperature range	5°C - 40°C / 41°F - 104°F
Working humidity	85% or less
Dimensions (W x H x D)	Approx. 155.0 x 51.0 x 95.0 mm / 6.10 x 2.01 x 3.74 in.
Weight	Approx. 335 g / 11.82 oz. (excluding power cord and protective covers)