Professional Pedigree

Superb Wireless Capabilities

The new Wireless File Transmitter WFT-E2 IIA* is a compact unit that fits unobtrusively on the side of the camera, providing a wide range of networking functions that expand the photographer's shooting versatility and efficiency. It is powered by the camera and thus requires no dedicated battery. The many advanced features of the Wireless File Transmitter WFT-E2 IIA* include:

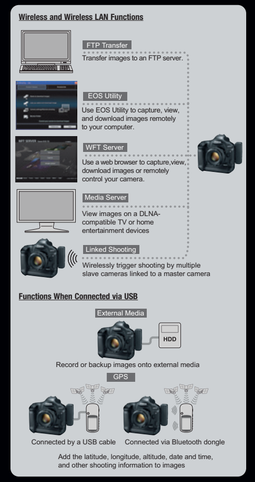
• **Weather-Resistant Design** – Like the EOS-1D Mark IV, the WFT-E2 IIA* features a magnesium alloy body, making it rugged and lightweight. Moreover, its fully sealed design helps ensure that the highly weather-resistant design of the camera is not compromised.

• **Extensive Wired and Wireless LAN Functions** – The WFT-E2 IIA* supports IEEE 802.11 a/b/g wireless LAN environments. For wired connections, the adapter supports high-speed 100BASE-TX communication. Built-in WPS (WiFi Protected Setup) makes it easy to make secure LAN connections.

• **Remote Live View** – When combined with the WFT-E2 IIA*, the Remote Live View function takes on added power. The unit then serves as a wireless server, transmitting images and video, enabling camera control over a LAN connection using any browser-enabled device such as a smartphone or a notebook computer. A handheld device, for example, can be used as remote live image viewer and a remote camera control, enabling the photographer to both view the image and release the shutter from a remote distance.

• **Multiple File Transfer Options** – The WFT-E2 IIA* enables wired or wireless file transfer using a wide range of standard protocols. With the FTP mode, the computer becomes an FTP server, enabling files to be transferred to a folder on the computer's hard drive. Using the EOS Utility (formally PTP) mode provides two-way communication between camera and computer, enabling not only file transfer but also remote live view and camera control capabilities. WFT Server (formally HTTP) makes it possible for up to three separate computers, anywhere in the world, to view the camera's memory card contents, providing simple drag-and-drop file transfer capability. The WFT Server now also includes a remote function, enabling remote Live View and remote camera control over the internet using standard Java enabled browsers.

• **USB Host Capability with GPS Support** – Photographers can take full advantage of the WFT-E2 IIA*'s USB host capability by connecting a compatible GPS device. This makes it possible to add GPS coordinates, altitude and UTC time stamp on images captured with the EOS-1D Mark IV. Compatible GPS units include several in Garmin's GPSMAP series and in the Magellan eXplorist series (using NMEA 0183 v.2.0.1 output data standard or "Garmin protocol").



• **Linked Multi-Camera Shooting** – Using multiple WFT-E2 IIA* units on compatible EOS-1D Series cameras, up to ten Slave cameras can be linked wirelessly to a Master camera. Connections are made simply and conveniently via wireless LAN. Slave camera shutters are automatically tripped when the master camera shutter is released. With such a setup, a photographer can, for example, shoot simultaneously from various angles.

** This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be offered for sale or lease, or sold or leased, until authorization is obtained.*

High-Resolution 3.0-inch Clear View II LCD Monitor

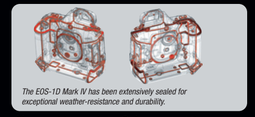
The EOS-1D Mark IV features a brilliant 3.0-inch LCD screen with approximately 920,000 dots for high-resolution image and information display. It provides 100% image area coverage and a wide viewing angle of 160° (both vertically and horizontally) with striking brightness to help ensure excellent viewing ability even in bright outdoor conditions. A specially engineered resin filling between the LCD panel and the outer reinforced glass protective cover reduces internal reflections, ensuring extraordinary display visibility and clarity. When viewing images, the user can press the illumination button to immediately access the LCD brightness adjustment screen.

Rugged Magnesium-Alloy Construction

Magnesium alloy is used for the EOS-1D Mark IV top, front and rear covers as well as for the memory card slot covers. The chassis and mirror box are also made of magnesium alloy. Because the alloy exhibits an excellent strength-to-weight ratio, the camera body is exceptionally tough, rigid and light. The magnesium alloy also functions as an electromagnetic shield, providing added data protection. The shutter mechanism is also rated for 300,000 cycles. The EOS-1D Mark IV is thus built to withstand punishing professional use, providing reliable long-term performance under the most demanding conditions.

Weather-Resistant Design

Legendary Canon water- and dust-resistant construction measures are incorporated throughout the EOS-1D Mark IV. All camera controls and cover seams are tightly sealed with specially designed silicone rubber gaskets. O-rings protect the memory card slot covers and the battery compartment. The camera's hot shoe is shaped to repel water with a rib around its perimeter. With professional Canon Speedlite flash units, such as the 580EX II, water-resistance is maintained. And when a water-resistant EF lens is attached to the camera, the integrated combination provides professional photographers with extreme dependability under the harshest working conditions.



The EOS-1D Mark IV has been extensively sealed for exceptional weather-resistance and durability.

EOS Integrated Cleaning System

EOS | Integrated Cleaning System

The Canon EOS Integrated Cleaning System uses both mechanical and software methods to effectively deal with dust accumulation on the imaging sensor. Dust that settles on the sensor surface is removed using ultrasonic vibration. This self-cleaning routine is automatically activated whenever the camera is powered on or off, but it can also be manually activated. A special collar positioned around the sensor holds the loosened dust. Moreover, by shooting a plain white subject, the photographer can acquire dust delete data that are transmitted along with the image (whether JPEG or RAW). Canon Digital Photo Professional (DPP) software can then be used to manually or automatically erase the dust spots, potentially saving a tremendous amount of time in post-processing. On the EOS-1D Mark IV, the low-pass filter on the front surface of the sensor also has an advanced fluorite coating that resists dust adhesion. Persistent dust particles that used to be difficult to loosen by vibration alone are now more easily removed.

Lens Peripheral Illumination Correction

The EOS-1D Mark IV incorporates a sophisticated feature that automatically corrects for light fall-off at the four corners of an image. Since peripheral illumination characteristics vary for each lens, this corrective system relies on a registered database. With JPEG images, the correction is performed in-camera at the time of capture. With RAW images, the same correction can be performed post-capture using Canon DPP software. The EOS-1D Mark IV includes pre-registered data for approximately 30 Canon lenses. The camera can, however, store correction data for about 40 lenses. Lens data can be added or deleted using the EOS Utility. When the feature is enabled, correction is automatically applied whenever there is corresponding data for the attached lens. (Note that in-camera correction is about 70% of what can be performed in post-processing using Canon DPP software.)

An Abundant Selection of Focusing Screens

The EOS-1D Mark IV is equipped with the Laser Matte Ec-C IV focusing screen, which provides exceptional optical performance. Background blur appears more natural, and graininess and flare are reduced. At the same time, the finder is brighter, especially at the edges and corners. Moreover, as with all EOS-1 Series digital SLR cameras, the EOS 1D Mark IV provides professional photographers with a wide choice of interchangeable focusing screens. Currently, there are 17 optional screens.

Specifications

TYPE

Type: Digital AF/AE SLR
Recording Media: CF Card Type I and II, SD/SDHC Memory Card (1 slot each), UDMA Mode 6 CF cards and/or External media (USB v.2.0 hard drive, via optional Canon WFT-E2/E2A transmitter)
Image Sensor Size: 1.098 x 0.73 in./ 27.9 x 18.6 mm (APS-H size sensor)
Compatible Lenses: Canon EF
Lens Mount: Canon EF mount
Lens Focal Length Conversion Factor: Equivalent to 1.3x the normal lens focal length

IMAGE SENSOR

Type: High-sensitivity, high-resolution, single-plate, CMOS sensor
Effective Pixels: Approx. 16.10 Megapixels
Total Pixels: Approx. 17.00 Megapixels
Aspect Ratio: 3:2 (Horizontal:Vertical)
Color Filter System: RGB primary color filters
Low-pass Filter: Fixed position in front of the image sensor
Dust Deletion Feature: (1) Self Cleaning Sensor Unit, (2) Dust Delete Data acquisition and appending, (3) Manual cleaning

Recording System

Recording Format: DCF 2.0 (Exif 2.21): JPEG, RAW and RAW+JPEG simultaneous recording possible. Multiple options for recording images on two memory cards, and onto compatible external USB hard drives (via optional Wireless File Transmitter WFT-E2/IIA)
Effective Pixels: Approx. 16.10 Megapixels
Simultaneous Recording: Three RAW types and six JPEG types can be set in any combination
File Size: JPEG (1) Large: Approx. 16.00 Megapixels (4896 x 3264), (2) Medium 1: Approx. 13.40 Megapixels (4320 x 2880), (3) Medium 2: Approx. 8.40 Megapixels (3552 x 2368), (4) Small: Approx. 4.00 Megapixels (2448 x 1632) LOSSLESS RAW (1) RAW: Approx. 16.00 Megapixels (4896 x 3264), (2) M-RAW: Approx. 9.00 Megapixels (3672 x 2448), (3) S-RAW: Approx. 4.00 Megapixels (2448 x 1632)
File Numbering: Continuous / Auto reset / Manual reset
Folder Setting: Folder creation/selection enabled
Color Space: sRGB, Adobe RGB
Picture Style: Standard, Portrait, Landscape, Neutral, Faithful, Monochrome, User Def. 1-3
Recording Functions: With Wireless File Transmitter WFT-E2 IIA or WFT-E2/E2A (with firmware Ver. 2.0.0 or higher) attached, image recording to the CF card and to the USB external media connected to a stated Wireless File Transmitter will be possible as follows: (1) Standard, (2) Automatic switching of recording media, (3) Separate recordings according image-recording quality, (4) Recording images having the same size.
Backup Recording: Enabled with Wireless File Transmitter WFT-E2 IIA or WFT-E2/E2A (with firmware Ver. 2.0.0 or higher) attached.

AUTOFOCUS SYSTEM

Type: TTL-AREA-SIR CMOS Sensor
AF Points: 45 (Area AF Ellipse); All 45 points selectable 39 cross-type, high-precision AF points (manual), 19 (automatic), improved AI Servo II AF
AF Range: EV -1 – 18 (at ISO 100 with f/1.4 lens)
Focusing Modes: Autofocus, (1) One-Shot AF; (2) Predictive AI Servo AF: The following can be set: C.Fn III -2: Focus-tracking sensitivity, C.Fn III -3: Servo operation method and shutter-release timing, C.Fn III -4: Servo operation method in case a closer object enters the focus center during subject-tracking; (3) Manual focus
AF Point Selection: The 45 AF points can be selected automatically or any one of them can be selected manually. To select an AF point, press the AF point selection button, then use the Multi-controller, Main Dial, or Quick Control Dial. With C.Fn III -8-3, the 18 expanded AF points are instead used to search for the subject.

EXPOSURE CONTROL

Metering Modes: 63-zone TTL full aperture metering: (1) Evaluative metering (linked to all AF points); (2) Partial metering (approx. 13.5% of screen, at center); (3) Spot metering (approx. 3.8% of screen, at center); Center spot metering; AF point-linked spot metering; Multi-spot metering (max. 8 spot metering entries); (4) Center-Weighted average metering
Metering Range: EV 0– 20 for all patterns (at ISO 100 with f/1.4 lens)
Exposure Control: Program AE (shiftable), Shutter speed-priority AE, Aperture-priority AE, E-TTL II program AE (Evaluative flash metering, Averaged flash metering), Manual
ISO Range: ISO 100–12800, ISO 50, 25600, 51200, & 102400 via Custom Function
AE Lock: Auto: Applied in One-Shot AF mode with Evaluative metering when focus is achieved. Manual (user-set): By AE lock button in all metering modes

VIDEO SHOOTING

File Format. 1): MOV (image data: MPEG-4 AVC/H.264; audio: Linear PCM, 2) File Size and Frame Rates: 1920 x 1080 (Full HD): 30p (29.97)/25p/24p (23.976), 1280 x 720 (HD): 60p (59.94)/50p, 640 x 480 (SD): 60p (59.94)/50p
Continuous Shooting Time: Approx. 12 min. (Full HD); 12 min. (HD); 24 min. (SD).
Exposure Control: Program AE, Manual exposure.
Exposure Compensation: ±3 stops in 1/3- or 1/2-stop increments.

SHUTTER

Type: Vertical-travel, focal-plane shutter with soft-touch electromagnetic release, all speeds electronically controlled
Shutter Speeds: 1/8000 to 30 sec. (1/3-, 1/2-, or 1-stop increments: C.Fn I -1), X-sync at 1/300 sec. (The shutter speed range can be limited with C.Fn I -2 and the aperture range limited with C.Fn I -13)
Self-timer: 10 sec. delay, 2 sec. delay

DRIVE SYSTEM

Drive Modes: Single, silent, high-speed continuous (approx. 10 fps), low-speed continuous (approx. 3 fps), 10- or 2-sec. self-timer
Continuous Shooting Speed (Approx.): 10 fps (at a shutter speed of 1/500 sec. or faster in all recording modes); fastest speed can be lowered if desired via Custom Function III-16
Maximum Burst (Using UDMA CF Card): JPEG Large (Compression rate 8): Approx. 121 shots, RAW: Approx. 28 shots, RAW+JPEG Large (Compression rate 8): Approx. 20 shots

VIEWFINDER

Type: Fixed eye-level pentaprism
Coverage: Horizontally/Vertically approx. 100%
Magnification: Approx. 0.76x (with 50mm lens at infinity, -1 m-1)
Angle-of-view: Approx. 28.3°
Eyepoint: 20 mm (at -1m-1, from eyepiece lens center)
Built-in Dioptric Adjustment: Adjustable from -3.0 to +1.0 m-1 (dpt)
Focusing Screen: Fixed
Mirror: Quick-return half mirror (Transmission: reflection ratio of 37:63)
Viewfinder Information: AF information (AF points and focus confirmation light), Exposure information (Metering mode, spot metering area, shutter speed, aperture, manual exposure, AE lock, ISO speed, exposure level, exposure warning, ISO speed display now has five digits), flash information (Flash ready, high-speed sync, FE lock, flash exposure level image information, JPEG recording, RAW recording, shots remaining, maximum burst, highlight tone priority (D+), white balance correction, card information Power level indicator, Battery check
Depth-of-Field Preview: Enabled with depth-of-field preview button.

WHITE BALANCE

Type: Auto, Daylight, Shade, Cloudy-Twilight-Sunset, Tungsten Light, White Fluorescent Light, Flash, five Custom WB settings (1-5), user-set Color Temperature (2,500-10,000K), five Personal White Balance PC-1 to PC-5 (Total 10 WB types)
Auto White Balance: Auto white balance, taken from imaging sensor
Color Temperature Compensation: White balance bracketing: Three consecutive images, Up to ± 3 mireds in 1-stop increments White balance correction: blue/amber bias and/or magenta/green bias (corrected in reference to the current WB mode's color temperature.) ± 9 mireds; manually set by user. When blue/amber bias and magenta/green bias set with White balance correction, white balance bracketing cannot be set together during white balance correction
Color Temperature Information Transmission: Provided

FOCUSING SCREENS

Precision laser-matte screen Ec-CIV
Interchangeable (Ec series; ten available)

POWER SOURCE

Battery: Battery Pack LP-E4 x 1
Battery Life: Viewfinder Shooting- At 73°F/23°C: Approx. 1500.- At 2°F/0°C: Approx. 1200 Live View Shooting. - At 73°F/23°C: Approx. 270 C.Fn I -2 and the aperture range limited with C.Fn I -13)
Self-timer: 10 sec. delay, 2 sec. delay

BODY AND DIMENSIONS

(WxHxD): 6.1 x 6.2 x 3.1 in./156 x 156.6 x 79.9mm
Weight: Approx. 1180 g / 41.6 oz.
* Body only (Excluding Eye-cup, battery and card. With backup battery.)

All images and effects simulated.

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EOS-1D Mark IV

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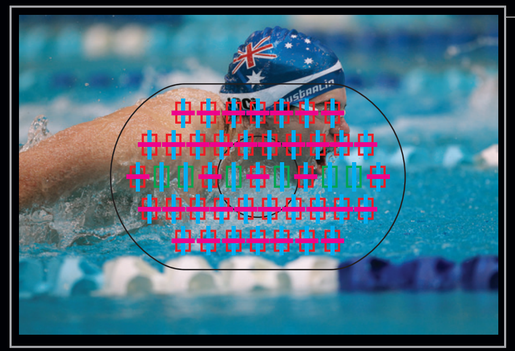
A New Standard for Performance & Reliability



Improved 45-Point AF Sensor

The EOS-1D Mark IV incorporates an amazingly precise, newly-developed 45-point Area AF sensor. Compared to the 19 points in the previous Mark III, 39 of the focusing points are cross-type (with Manual AF point selection), and any of the 45 points can be selected manually if desired.

The new AF system executes highly accurate cross-type focusing with f/2.8-equivalent light flux vertical line detection and f/5.6-equivalent light flux horizontal-line detection, when a maximum lens aperture of f/2.8 or faster lens is attached. The center AF point is a cross-type sensor with f/4 vertical and f/8 horizontal detection. When the maximum lens aperture is f/4 or faster, the center AF point provides high-precision cross-type focusing. When the maximum lens aperture is f/8 or faster (including the use of an extender), the center AF point uses horizontal-line detection. Many popular Canon EF Series lenses with f/4 maximum aperture such as the EF 17-40mm f/4L USM, EF 24-105mm f/4L IS USM, EF 70-200mm f/2.8L IS USM, EF 200mm f/2L IS USM, EF 300mm f/2.8L IS USM, and EF 400mm f/2.8L IS USM can take advantage of 39 cross-type focusing point precision with this new system.

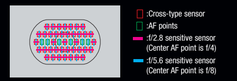
More Accurate Focus in More Situations

Both One-Shot AF and new AI Servo II AF modes are provided to cover a wide variety of shooting situations. The AI Servo II AF mode has been re-engineered to help ensure improved speed and stability with more reliable focus-tracking performance. The new algorithms make it possible to more accurately track subjects that move irregularly. In addition, AI Servo II AF greatly enhances macro photography with algorithms that automatically sense the use of a macro-focusing lens at close distances, appropriately adjusting AF operating parameters to better accommodate unpredictable camera/subject movement.

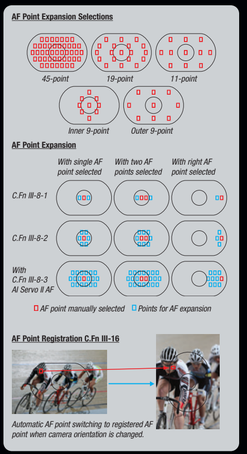
Powerful, Customizable AF Operation

The photographer can select any one of the 45 AF points manually or allow the camera to make the selection automatically. To select an AF point manually, the user can press the AF point selection button, then use either the Multi-controller or a combination of the Main and Quick Control Dials to highlight the desired point in the viewfinder. As with previous EOS 1-series cameras, the photographer can use a Custom Function to automatically expand a manually selected AF point. The expansion of points can be limited by the user to 19, 11, inner 9, or outer 9. A Custom Function (C.Fn III-16) can be used to pre-register an AF point for automatic AF point switching to the registered point when the camera orientation is changed from the horizontal to vertical position, or vice versa. Another Custom Function enables the user to enable or disable the burst of short flashes when a flash unit without an IR AF-assist beam is used.

The 45-point Area AF sensor features 39 cross-type high-precision AF points with manual AF point selection. Any of the 45-points are selectable.



With Auto AF selection, 19 points are cross-type AF sensors.



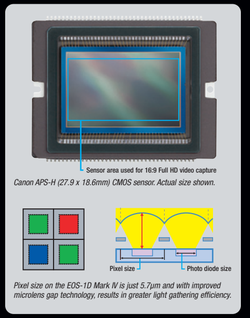
EOS-1D Mark IV features a new AI Servo II AF focus tracking and 10 frames-per-second high-speed continuous shooting, for sharp, detailed photographs in every shot.

10 fps High-speed Continuous Shooting

The new CMOS sensor in the EOS-1D Mark IV features an improved, faster single-line reading sequence and an 8-channel signal path that achieves remarkable data transfer speeds. The camera drive system has also been enhanced with a two-motor design and an active mirror bounce suppression mechanism. These and other advances in the shutter assembly, autofocus system, and Dual DIGIC 4 Image Processors make possible high-speed continuous shooting at 10 fps at full 16.1 Megapixel resolution. Maximum bursts during continuous shooting are 121 shots for JPEG Large (at a compression setting of 8) and 28 shots for RAW. When shooting RAW+JPEG (at compression 8), the maximum burst is 20 shots.

16.1 MEGA PIXELS CMOS Newly-Developed 16.1 Megapixel CMOS Sensor

When it comes to imaging sensor technology, Canon raises the standard for the industry with innovative in-house development and manufacturing advancements. The EOS-1D Mark IV features a new Canon CMOS sensor with a capture resolution of 16.1 Megapixels (4912 x 3270), providing outstanding imaging detail. The recording area of the sensor is 27.9 x 18.6 mm (APS-H), yielding a lens conversion (crop) factor of approximately 1.3 in relation to traditional full-frame 35mm film. The area of the sensor used for recording video is nearly the same as 4-perf Super 35 (24.89 x 18.65mm) motion picture film, making it also an ideal size for video capture. The latest refinements in Canon CMOS technology have enabled more physical space for the photodiodes, increasing their collective area. The larger sensor photodiode area results in wide dynamic range and the new photodiode design also provides a markedly improved signal-to-noise ratio. The resulting boost in sensitivity makes higher usable ISO speeds possible. A new fabrication process eliminates gaps between the microlenses, yielding even higher light gathering efficiency. The new CMOS sensor thus delivers a remarkable combination of high resolution, low noise and unprecedented high ISO shooting capability.



Canon APS-H (27.9 x 18.6mm) CMOS sensor. Actual size shown.

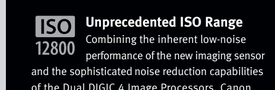
Pixel size on the EOS-1D Mark IV is just 5.7µm and with improved microlens gap technology, results in greater light gathering efficiency.

Dual DIGIC 4 Image Processors

Developed by Canon, DIGIC Image Processors are found exclusively in Canon digital cameras. The EOS-1D Mark IV incorporates not one, but two DIGIC 4 Image Processors operating in tandem to further boost performance, helping ensure natural color reproduction and handling the data from the new high-resolution sensor at high speeds for near-instantaneous camera response. This remarkable parallel processing power makes possible not only high-speed shooting, but also such advanced features as Full HD video recording with comprehensive frame rate options, Live View with Face Detection AF, HDMI output, UDMA Mode 6 (CF card) support and advanced Auto Lighting Optimizer.

ISO 12800 Unprecedented ISO Range

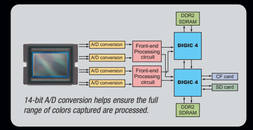
Combining the inherent low-noise performance of the new imaging sensor and the sophisticated noise reduction capabilities of the Dual DIGIC 4 Image Processors, Canon engineers have endowed the EOS-1D Mark IV with the widest ISO range yet in an EOS digital SLR: 100–12800 in standard mode, settable in 1/3-stop increments. In extended range modes, the photographer can select a low ISO speed of 50 and one of three high settings: 25600 (H1), 51200 (H2), 102400 (H3). This greatly expanded capability provides a previously unavailable range of real-world shooting options, especially in available-light or dim situations. Also significant is the camera's improved low ISO range performance. The new Canon CMOS sensor features advancements that make it possible to operate with reduced electrical charge saturation. This improves imaging performance at the low end of the ISO scale, which can be highly useful when shooting high contrast scenes with fast (e.g., f/1.4) lenses. Blown highlights can be avoided, and photographers can use wider apertures to control depth-of-field in ways not possible at higher ISO settings.



The EOS-1D Mark IV now also provides an ISO Auto option. When this feature is selected, the camera automatically selects ISO within the standard range of 100–12800 to provide an optional exposure for the shutter speed and aperture combination selected by the photographer.

14-bit A/D Conversion

The EOS-1D Mark IV is equipped with a 14-bit A/D converter which means that tonal gradations for RAW images are now represented by 16,384 separate levels per channel rather than 4,096 of 12-bit. When saved as a 16-bit TIFF image, the image retains the full range of tones captured at 14 bits. Moreover, 8-bit-per-channel JPEG images are generated from the 14-bit data. Artifacts related to limited dynamic range, such as tonal skipping and highlight clipping, are thereby substantially reduced.



14-bit A/D conversion helps ensure the full range of colors captured are processed.

Sophisticated Noise Reduction

The advanced algorithms developed for the powerful Dual DIGIC 4 Image Processors significantly improve noise control capability. They more effectively remove not only color noise but also luminance noise. This results in dramatic subjective image quality enhancement because, while color noise is more readily noticed, luminance noise affects factors such as perceived image "naturalness." At extremely high ISO settings, the EOS-1D Mark IV clearly reproduces fine detail and subtle gradations. Moreover, all noise reduction settings other than the highest (Strong) can now be used without affecting the camera's continuous shooting speed.

Auto Lighting Optimizer

The Auto Lighting Optimizer automatically adjusts brightness and contrast during image processing to minimize the need for expensive, and time consuming, post production processing. With RAW images, Canon Digital Photo Professional (DPP) software can be used to make use of the Auto Lighting Optimizer. Auto Lighting Optimizer is available in most shooting modes, including Manual mode. Standard, weak, or strong processing as well as an option to disable.

The EOS-1D Mark IV captures Full HD Video (1920 x 1080) at 30 (29.97), 25 or 24 (23.976) fps.

Better Flash Photography

The advanced automatic exposure system of the EOS-1D Mark IV includes an upgraded flash metering algorithm that reduces overexposure with wide-angle shots in which the main subject occupies a small area. E-TTL II autoflash control is possible with all Canon EX-series Speedlite flash units. With the Speedlite 580EX II, 430EX II, and 270EX, all flash settings can be controlled via the camera menu and Custom Functions.

EOS HD Video: An Exciting New Tool for Motion Picture Capture

With the introduction of Canon EOS digital SLRs capable of HD video capture, professional photographers, videographers and cinematographers have at hand an important new imaging tool. They have discovered not only the convenience, but also the very special qualities of Canon EOS HD Video. By shooting video with a large sensor camera (the HD recording area on the EOS-1D Mark IV CMOS is approx. 27.9mm x 15.7mm, similiar when compared to Super 35 motion picture film at 24.89 x 18.65mm), it's simple to take advantage of the image quality and characteristics intrinsic to SLR photography. The EOS-1D Mark IV increases flexibility for the photographer in that it also allows for full use of Canon's extensive EF lens line-up, including wide angle, macro, super-telephoto, tilt-shift and fish-eye, providing a wealth of depth-of-field and other creative shooting options once reserved only for still photography. The resulting HD video is a standout in its stunning depth-of-field characteristics, remarkable capture capability under poor lighting conditions, and deep clean blacks with nearly undetectable noise.

Comprehensive Choice of Frame Rates and Formats

The EOS-1D Mark IV is the first EOS 1-Series digital SLR to provide HD video capture capability, setting new standards for image quality and professional versatility. It supports a wide range of frame rates and video formats, enabling photographers to tailor their footage to specific needs and markets. For **Full HD (1920 x 1080)**, the available frame rates are 30 (29.97) fps, 25 fps, and 24 (23.976) fps for cinematography.

For **Standard HD (1280 x 720)**, the available frame rates are 60 (59.94) fps and 50 fps.

For **SD (VGA – 640 x 480)**, the available frame rates are 60 (59.94) fps and 50 fps. Video is captured with progressive scanning and recorded in the MOV format (MPEG-4 AVC/H.264 video, uncompressed linear PCM audio) using a variable bit rate. This helps ensure high-quality image and sound while keeping file size to a minimum.

Advanced Exposure Control

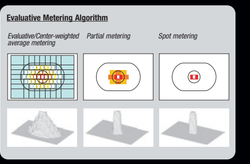
When shooting HD video, including Full HD, the EOS-1D Mark IV employs Center-Weighted average metering (using the imaging sensor) to help ensure stable motion-picture exposure. If the AF mode is set to Face Detection Live View, the camera will use Evaluative metering linked to the AF point corresponding to the face to calculate exposure.

Program AE mode is used when set in P, Tv, Av and Bulb shooting modes. ISO speed is automatically set between 100–12800, and shutter speed is automatically set between 1/30 – 1/4,000 second at 30/25/24 fps and between 1/60 – 1/4,000 second at 60/50 fps. With these shooting modes, aperture is also automatically selected. (If ISO speed expansion has been selected, the range can be extended to 102400.) As with still shooting, AE lock is available for video. Exposure compensation is available in the range of ±3 stops.

Full manual exposure control can also be used when shooting video. ISO speed can be set automatically or manually between 100 and 12800. Shutter speed can be manually set from 1/30 to 1/4000 of a second. Available aperture settings are specific to the lens used.

63-Zone Metering System

The EOS-1D Mark IV incorporates a 63-zone metering sensor linked to the 45 AF points. The metering range is EV 0 to EV 20 (at 73°F/23°C, 50mm f/1.4 lens, ISO 100). Photographers can choose from the following metering modes: Evaluative, Partial, Spot, Multi-Spot, and Center-Weighted average. AF point-linked spot metering is also possible via a Custom Function. Partial metering reads approximately 13.5% of the viewfinder area, while Spot metering reads approximately 3.8%. The Multi-Spot mode automatically averages measurements taken from up to eight spot readings. The newly updated E-TTL II autoflash system uses the same 63-zone metering sensor and makes use of distance information from the lens to help ensure accurate flash exposures even with highly reflective backgrounds. For both regular and flash shooting, the EOS-1D Mark IV provides a new AE microadjustment feature that enables the photographer to fine-adjust "standard" exposure. Adjustments up to ±1 stop can be made in 1/8-stop increments.



Sound Recording Options

A built-in microphone below the camera nameplate records monaural sound. Stereo recording is possible with a self-powered external stereo microphone connected to the camera's mic input connector (a standard 3.5mm stereo jack). Audio levels are automatically adjusted whether recording with the built-in or an external microphone.

HDMI Connectivity

An HDMI output port is provided for the display of still and video Live View monitoring and Full HD playback to studio monitors, projectors and other post-production equipment.