

Canon

EOS-1D Mark II

Digital Camera for Professionals

8.2M
CMOS SENSOR



8.5 FPS

**How high can resolution and continuous shooting speed go?
EOS-1D Mark II has the answer.**



The reborn EOS-1D achieves 8.2 effective megapixel resolution even at a continuous shooting speed of 8.5 frames per second. This extraordinary feat is more than evolution, it's a revolution in digital camera performance. Versatility, operational ease and all aspects of camera design have been meticulously refined to give professionals a genuine edge at decisive moments.

Higher performance and convenience borne of advanced technology and responsiveness to the requests of professionals.

Large CMOS Sensor (approx. 8.2 million effective pixels)

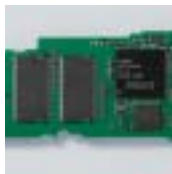
Canon's new CMOS sensor with high-speed 8-channel reading technology delivers exceptional image quality with low noise and an extremely high S/N ratio. Its large 28.7 x 19.1mm size realizes an effective angle of view that's just 1.3 times the focal length indicated on Canon EF lenses.



CMOS Sensor (Actual size)

DIGIC II Imaging Processor

Compatible with DDR-SDRAM, Canon's newly developed, state-of-the-art DIGIC II Imaging Processor achieves continuous shooting of 8.2 megapixel images at 8.5 fps and employs original Canon algorithms to accurately convert signals into crisp, high-resolution images with natural color and rich gradation.



8.5 fps continuous shooting with up to 40 images per burst

The EOS-1D Mark II is the world's fastest Digital AF-SLR camera (as of February 2004). Its record-breaking 8.5 fps speed is achieved even at full resolution (3,504 x 2,336 pixels), and is maintained during max. bursts of 40 shots in JPEG mode (20 shots in RAW or RAW+JPEG mode).

E-TTL II Autoflash

Canon's new Evaluative Through-The-Lens (E-TTL) Autoflash system offers evaluative metering as well as new averaged metering, which employs a new recording algorithm to achieve more stable control and help prevent underexposure and overexposure even when the subject changes location.

High reliability and rigidity

The highly reliable EOS-1D Mark II features rigid magnesium alloy in the chassis and external covers that also contributes to electromagnetic shielding, a durable finish and extremely low body weight. At 200,000 shutter cycles, shutter durability is 30% higher than in the EOS-1D and EOS-1Ds.

Software and accessories

Improved software features, which include EOS Viewer Utility for faster image preview, and Digital Photo Professional for high-speed processing, offer easier operability and handling of RAW images. With the inclusion of such accessories and a variety of EF lenses, Canon delivers total digital imaging solutions.

DVK-E2 Data Verification Kit (compatible with SD memory cards)
EF 70-300mm f/4.5-5.6 DO IS USM (from April 2004*)
EF 28-300mm f/3.5-5.6 L IS USM (from April 2004*)

*Scheduled date of availability

Major Specifications

| | | | |
|--|--|---|--|
| Type | Digital AF/AE SLR | ISO speed range | Equivalent to ISO 100-1600 (in 1/3-stop increments), ISO speed can be expanded to ISO 50 and 3200 |
| Type | Type I or II CF card, SD memory card | Exposure compensation | AEB: ±3 stops in 1/3-stop increments. Bracketing methods: 1. Shutter speed or aperture 2. ISO speed |
| Recording medium | 28.7 x 19.1mm | AE lock | Manual: ±3 stops in 1/3-stop increments (can be combined with AEB) Auto: Applied in One-Shot AF mode with evaluative metering when focus is achieved. Manual: By AE lock button in all metering modes. |
| Image size | Canon EF lenses (except EF-S lenses) (35mm-equivalent focal length is equal to approx. 1.3 times the marked focal length.) | | |
| Compatible lenses | Canon EF mount | | |
| Lens mount | | | |
| Imaging Element | | Shutter | |
| Type | High-sensitivity, high-resolution, large single-plate CMOS sensor | Type | Electronically-controlled, focal-plane shutter |
| Effective pixels | Approx. 8.20 megapixels | Shutter speeds | 1/8000 to 30 sec. (1/3-stop increments), bulb, X-sync at 1/250 sec. |
| Total pixels | Approx. 8.50 megapixels | Shutter release | Soft-touch electromagnetic release |
| Aspect ratio | 3:2 | Self-timer | 10-sec. or 2-sec. delay |
| Color filter system | RGB primary color filter | Remote control | Remote control with N3 type terminal |
| Low-pass filter | Located in front of the image sensor, non-removable | | |
| Recording System | | Flash | |
| Recording format | DCF 2.0 (Exif 2.21): JPEG and RAW | EOS-dedicated Speedlite | E-TTL II autoflash with EX-series Speedlite |
| Image format | JPEG, RAW (12bit) | PC terminal | Provided |
| RAW+JPEG simultaneous recording | Provided | | |
| File size | (1) L (Large): Approx. 2.8 MB (3504 x 2336 pixels) (2) M1 (Medium1): Approx. 2.2 MB (3104 x 2072 pixels) (3) M1 (Medium2): Approx. 1.7 MB (2544 x 1696 pixels) (4) S (Small): Approx. 1.0 MB (1728 x 1152 pixels) (5) RAW: Approx. 8.3 MB (3504 x 2336 pixels) * JPEG quality: 8 * Exact file sizes depend on the JPEG quality, subject, ISO speed, etc. | Drive System | |
| | | Drive modes | Single, low-speed continuous, high-speed continuous, self-timer |
| Folder setting | Folder creation/selection enabled | Continuous shooting speed | Low-speed continuous: Approx. 3 shots/sec. High-speed continuous: Approx. 8.5 shots/sec. JPEG: Approx. 40 shots (Large, JPEG 8) RAW: Approx. 20 shots |
| File numbering | (1) Consecutive numbering (2) Auto reset (3) Manual reset | Max. burst | |
| Processing parameters | Standard parameters plus up to three custom processing parameters can be set | | |
| Color matrix | Five standard types plus two types that can be registered with color matrix | LCD Monitor | |
| Backup image recording | Enabled (Same image recordable on CF card and SD memory card) | Type | TFT color liquid-crystal monitor |
| Interface | IEEE1394 for personal computers USB for direct printing Video output (NTSC/PAL) | Monitor size | 2.0 in. |
| | | Pixels | Approx. 230,000 |
| White Balance | | Coverage | 100% with respect to the effective pixels |
| Settings | Auto, daylight, shade, cloudy, tungsten light, fluorescent light, flash, custom, color temperature setting, custom white balance (Total 10 settings) | Brightness adjustment | Five levels provided |
| Auto white balance compensation | Auto white balance with the image sensor | Interface languages | 12 |
| Color temperature compensation | White balance bracketing: ±3 steps in full-step increments White balance correction: ±9 steps in full-step increments * Blue/amber bias or magenta/green bias possible | Image Playback | |
| | | image display format | Single image, single image (INFO.), 4-image index, 9-image index, magnified zoom (approx. 1.5x - 10x), rotated image |
| Viewfinder | | Highlight alert | In the single image and single image (INFO.) formats, any overexposed highlight areas will blink in the image display. |
| Type | Eye-level pentaprism | Image Protection and Erase | |
| Coverage | Approx. 100 percent vertically and horizontally with respect to the effective pixels | Protection | Erase protection of one image, all images in a folder, or all images in the memory card can be applied or canceled at one time. |
| Magnification | 0.72x (1 diopter with 50mm lens at infinity) | Erase | One image, all images in a folder, or all images in the memory card can be erased (except protected images) at one time. |
| Eye point | 20mm | | |
| Built-in diopter adjustment | -3.0 - +1.0 diopter | Sound Recording | |
| Focusing screen | Interchangeable (9 types), Standard focusing screen: Ec-C11 | Recording method | The voice annotation recorded with the built-in microphone is attached to the image. |
| Mirror | Quick-return half mirror (Transmission: reflection ratio of 37:63, no mirror cut-off with EF 1200mm f/5.6 or shorter lens) | File format | WAV |
| | | Recording time | Max. 30 sec. per recording |
| Viewfinder information | AF information (AF points, focus confirmation light), exposure information (shutter speed, aperture, manual exposure, spot metering circle, ISO speed, exposure level, exposure warning), flash information (flash ready, FP flash, FE lock, flash exposure level), white balance correction, JPEG recording, number of remaining shots, memory card information | Direct Printing | |
| Depth-of-field preview | Enabled with depth-of-field preview button | Compatible printers | CP Direct, Direct Photo, and PictBridge-compatible printers |
| Eye piece shutter | Built-in | Printable images | JPEG images (Print ordering enabled with DPOF version 1.1) |
| Autofocus | | Customization | |
| Type | TTL-AREA-SIR with a CMOS sensor | Custom Functions | 21 Custom Functions with 67 settings |
| AF points | 45 AF points (Area AF) | Personal Functions | 27 |
| AF working range | EV 0-18 (at ISO 100 at 20°C/68°F) | Camera settings saving/reading | Possible |
| Focusing modes | One-Shot AF (ONE SHOT), AI Servo AF (AI SERVO), Manual focusing (MF) | Power Source | |
| AF point selection | Automatic selection, manual selection, home position (switch to registered AF point) | Battery | One Ni-MH pack NP-E3 |
| Selected AF point display | Superimposed in viewfinder and indicated on LCD panel | * AC power can be supplied via the AC adapter and DC coupler. | |
| AF-assist beam | Emitted by the dedicated Speedlite | At 20°C/68°F: Approx. 1200 | |
| Exposure Control | | At 0°C/32°F: Approx. 800 | |
| Metering modes | 21-zone TTL full aperture metering (1) Evaluative metering (linkable to any AF point) (2) Partial metering (approx. 13.5% of viewfinder at center) (3) Spot metering • Center spot metering (approx. 3.8% of viewfinder at center) • AF point-linked spot metering (approx. 3.8% of viewfinder) • Multi-spot metering (Max. 8 spot metering entries) (4) Centerweighted averaged metering | * The above figures apply when a fully-charged Ni-MH Pack NP-E3 is used. | |
| Metering range | EV 0-20 (at 20°C/68°F with 50mm f/1.4 lens, ISO 100) | Battery check | Automatic |
| Exposure control systems | Program AE (shiftable), shutter-priority AE, aperture priority AE, E-TTL II autoflash, manual, flash metered manual | Power saving | Provided. Power turns off after 1, 2, 4, 8, 15, or 30 min. |
| | | Back-up battery | One CR2025 lithium battery |
| | | Dimensions and Weight | |
| | | Dimensions | 156 (W) x 157.6 (H) x 79.9 (D) mm / 6.1 x 6.2 x 3.1 in. |
| | | Weight | 1220g / 43 oz. (Body only. Battery: 335g/11.8 oz.) |
| | | Working Conditions | |
| | | Working temperature range | 0°C - 45°C / 32°F - 113°F |
| | | Working humidity | 85% or less |

* All the specifications above are based on Canon's testing standards.
* The camera's specifications and physical appearance are subject to change without notice.

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