

Canon

# EOS DIGITAL

For Professionals

Canon

EOS-1

Ds

85mm

AF  
MF

16 11 8 4 4 8 11 16

CANON LENS EF 85mm 1:1.2 L II USM

# The Highest Expression of Digital SLR Photography

Today, more professional photographers depend on Canon EOS than any other digital SLR system, and the reasons are no mystery. The EOS System gives pros what's needed to deliver results in every imaginable shooting situation—a camera system so advanced that the technology becomes an unconscious extension of the mind's eye. Groundbreaking camera engineering and optical design have kept the Canon EOS System at the cutting edge ever since 1987, when the first EOS SLR camera shook the photographic world. In today's digital world, the EOS System continues to lead the way with dramatic innovations that are reshaping the industry. With an unmatched range of choice in camera bodies, more than 50 world-renowned EF lenses, sophisticated Speedlite flashes, advanced wireless networking, data handling capabilities, and numerous other powerful system options and accessories, the Canon EOS System reigns supreme.





# Get the Big Picture and the Smallest Detail



## EOS-1Ds Mark III

### Digital Capture Redefined.

Once in a while a new tool comes along that recalibrates our capabilities... a technological tour de force that forever changes our perception of what is and is not possible... a professional instrument that expands the boundaries of creative communication. The Canon EOS-1Ds Mark III is just such a tool. True to the EOS-1 legacy, this remarkable camera redefines the state of the DSLR (digital single-lens-reflex) art in no uncertain terms.



The EOS-1Ds Mark III 21.1-megapixel full-frame CMOS sensor delivers a high-resolution image of exacting precision, yielding a whopping 60MB file in Adobe® Photoshop®, with unprecedented data density for enhanced large-output capabilities and post-processing cropping flexibility.

### COMMERCIAL BIG PRODUCT

“As photographers, we dream and produce images. Canon has also dreamed to give us the most powerful imaging tool in the world today with the Canon EOS-1Ds Mark III, its DIGIC III Image Processors, and an astounding 21.1-megapixel full-frame CMOS sensor that makes your image pop off the page like this one.”



— Gil Smith  
Canon Explorer of Light

### Incomparable Canon Full-Frame CMOS Technology



The EOS-1Ds Mark III incorporates the newest Canon CMOS sensor, which delivers approximately 21.1 effective megapixels (5616 x 3744 pixels). The recording area of the sensor is 36 x 24mm, which is equivalent to the full-frame size of the 35mm film format. Compared to typical smaller digital camera sensors, the Canon full-frame sensor can accommodate a tremendous pixel count while maintaining larger individual pixel site size. Larger sites improve light gathering capability, enabling the sensor to produce a cleaner, more noise-free image.

EOS Digital SLR cameras with full-frame sensors let you use interchangeable lenses exactly as you would with 35mm film SLR cameras. They let photographers use the entire range of superb Canon EF lenses without a conversion factor, making it possible to take full advantage of the specific optical characteristics for which the lenses were designed. This is an important benefit for photographers who have sizable EF lens collections. 

### Ultra-High-Resolution Image Capture

The 21.1 effective megapixels full-frame sensor captures images with stunning detail and precision. The resulting high-resolution image files ensure exceptional reproduction quality, with generous data density for enhanced large-output capabilities and post-processing cropping flexibility. 

### The Canon CMOS Advantage

Canon CMOS sensors—designed and manufactured by Canon for exclusive use in Canon digital cameras—provide a number of important

advantages over sensors typically found in other digital cameras: Their significantly reduced power consumption helps extend battery life and eliminates performance problems related to increased heat and noise. They deliver faster operation, taking full advantage of multi-channel architecture to provide unprecedented combinations of high resolution and high-speed image capturing performance. Canon CMOS sensors also incorporate a novel noise reduction system that records the noise of each pixel prior to exposure then automatically subtracts that noise. This proprietary on-chip circuitry ensures exceptionally clean, noise-free images. 

### Extended RAW Recording Capabilities

The EOS-1Ds Mark III can not only capture RAW but also sRAW (Small RAW) images. This added versatility is ideal for photographers who prefer the control afforded by RAW capture in shooting situations that do not require the camera's full resolution capability. Options are also provided for simultaneous RAW+JPEG and sRAW+JPEG recording with an extensive choice of JPEG sizing options. 

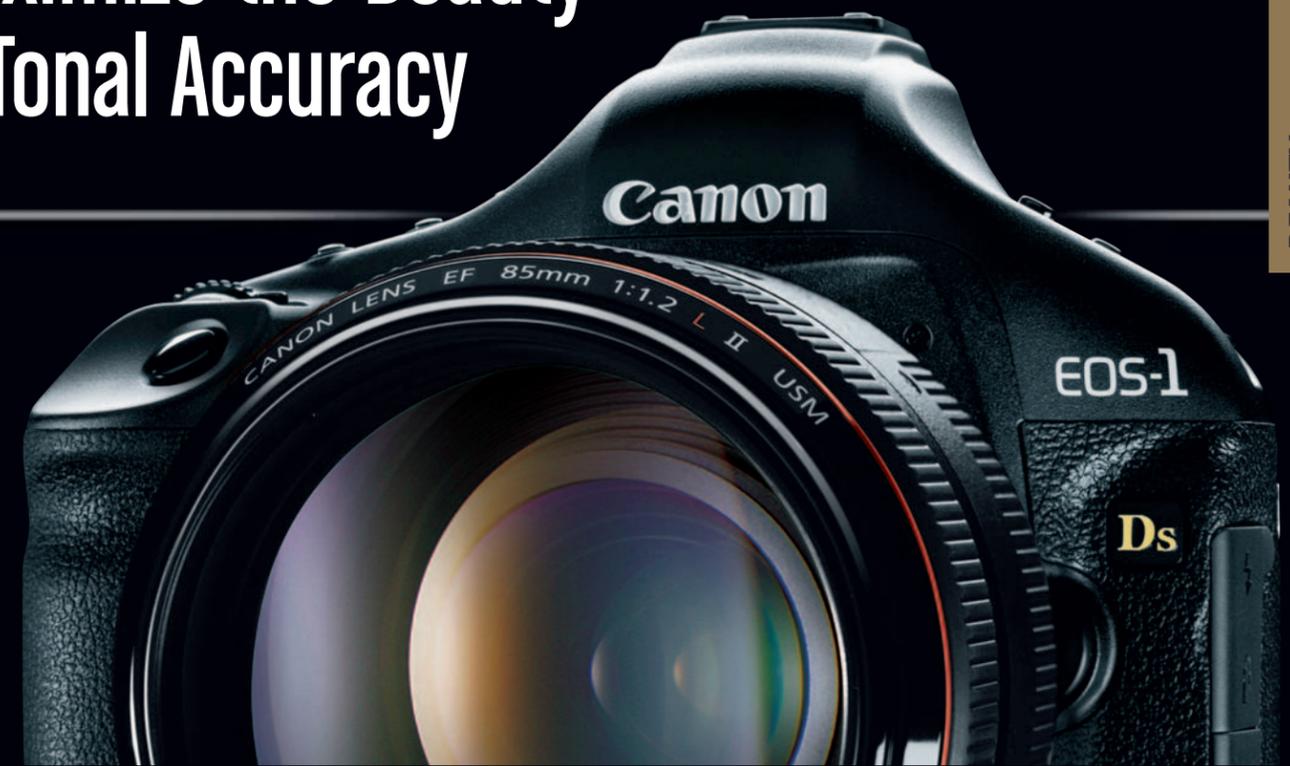
### Superior Color Tonality

Whereas most other digital cameras use 12-bit A/D (analog-to-digital) converters, the EOS-1Ds Mark III employs superior 14-bit converters to process the output of the imaging sensor. Each color channel provides 16,384 separate steps of brightness, from darkest to lightest. This ensures smoother tonal transitions and more natural gradations. 16,384 distinct tones can be recorded in each color channel, with every click of the shutter—even JPEG images start using 14 bits of tonal data!



# Maximize the Beauty in Tonal Accuracy

BEAUTY



## BEAUTY

“The EOS System has always been my choice for location shooting, however when photographing in-studio, I turned to medium format. Now with the EOS-1Ds Mark III and its phenomenal 21.1-megapixel sensor, I have the perfect camera for both studio and location.”



— John Huba  
Canon PrintMaster

## Superb Color Accuracy

The combination of advanced technologies embodied in the Canon CMOS sensor and dual “DIGIC III” Image Processor enables digital capture of unprecedented quality. Color richness and accuracy are outstanding thanks to a multilayer low-pass filter in front of the sensor that isolates false colors. With



Dual “DIGIC III” Processor

the low-noise performance of the Canon CMOS sensor, captured images rival the rich, silky-smooth quality exceeding the performance of the finest-grain color films. 

## Advanced 14-bit A/D Conversion

The EOS-1Ds Mark III employs 14-bit converters to process the output of the imaging sensor. Compared to the 12-bit converters used in most digital cameras, the Canon design ensures smoother tonal transitions, more natural gradations, and superior color fidelity. RAW images are recorded at 14 bits so that processed 16-bit TIFF images contain the full range of tonal values captured by the sensor.

## Numerous Recording Options

The EOS-1Ds Mark III provides a versatile range of recording quality options, enabling photographers to select optimal file sizes and resolutions for any given job. Multiple compression rates are available via the menu. All quality level combinations, including JPEG, RAW, sRAW, RAW+JPEG, and sRAW+JPEG can also be accessed directly using the Quality button and the Quick Control Dial. 

## Picture Style

The myriad features and settings available to the digital SLR user can be daunting. Even the most proficient professional might occasionally have doubts as to whether all of the camera settings are optimal for the shot. The ingenious Canon Picture Style feature comes to the rescue, providing a number of user-friendly presets that eliminate the need to make numerous individual changes to camera settings.



Picture Style



Portrait

They enable the photographer to make optimal choices based simply on the type of shooting. The Picture Style feature is flexible, allowing you to fine-tune individual camera settings—such as sharpening, contrast, color tone, and saturation—as desired.



# The Performance it Takes to Capture Life

LIFESTYLE



## COMMERCIAL: LIFESTYLE

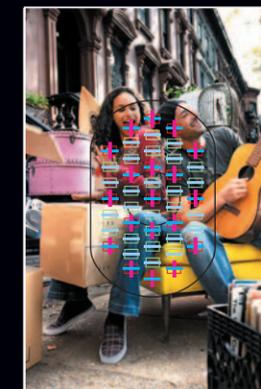
“This camera is a GIANT step up from the EOS-1Ds Mark II. The minute I viewed the EOS-1Ds Mark III capture, I immediately knew there was no need to use medium format digital cameras. The image quality is superior...why would I want to compromise my lens choices by using medium format!”



— Paul Aresu  
Canon Explorer of Light

## Incomparable EOS AF Technology

The EOS-1Ds Mark III incorporates a new area-type AF sensor that provides increased pixel sensitivity, delivering markedly improved focusing performance in low-light situations. The area AF system has 19 selectable high-precision cross-type points plus 26 Assist points for a total of 45 AF points. The cross-type points are now not only positioned in the central area but also at the outer edges of the AF sensing area. The 26 additional Assist points can be used to expand the coverage area of any manually selected primary AF point. Moreover, Assist points can be used in not only the AI Servo AF mode but also the One-Shot AF mode. The EOS-1Ds Mark III uses an entirely separate processing unit dedicated solely to AF operations, including driving the lens. This dedicated CPU design performs AF computations three times faster than in previous systems. Faster AF detection and computation make it possible for the EOS-1Ds Mark III to achieve its remarkably fast continuous shooting speed with full AI Servo tracking.



- Cross-type AF points
- Assist points (Not user-selectable)
- f/2.8 sensors (Center AF point is f/4)
- f/5.6 sensors

## Rapid-Fire Shooting with Near-Instant Response

Advanced Canon CMOS technology, high-speed Dual “DIGIC III” Image Processors, and a new AF system make the EOS-1Ds Mark III a remarkably fast camera, providing a maximum continuous shooting speed of 5 fps at full resolution. This is an extraordinary achievement when you consider the sheer amount of data that is generated by a 21.1-megapixel sensor. The EOS-1Ds Mark III is also an impressively responsive and nimble camera. It has a fast startup time of 0.2 second, and an extremely low lag time of 55 msec. (reducible to as low as 40 msec. via a Custom Function setting).



5 fps  
Continuous  
Shooting  
Speed

## Extraordinary Tonal Precision

Canon CMOS sensors are capable of capturing images with exceptionally wide tonal range. In order to ensure the superior tonal precision is maintained throughout the remainder of the recording process, the EOS-1Ds Mark III employs 14-bit A/D converters to process the output of the sensor. Compared to the 12-bit converters used in most digital cameras, the Canon design ensures smoother tonal transitions and more natural gradations.





# Technology at One with Nature



LANDSCAPE

## FINE ART: LANDSCAPE

“The EOS-1Ds Mark III is a wonderful tool that has made photography fun again for me. It is light and rugged with a very long battery life, all very important features in my backpack. It provides me with a similar experience to shooting with my 4 x 5 camera, without the bulk, weight and dark cloth. The menus and controls have been re-arranged in a very user friendly and intuitive manner. Most importantly, the image quality is superb with fine detail and smooth continuous tones apparent throughout the file. Kudos!”



— Vincent Isola  
Canon PrintMaster

Camera: EOS-1Ds Mark III  
Lens: EF 14mm f/2.8L II USM  
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## Rugged Weather-Resistant Design

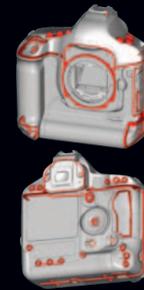


Magnesium Alloy Body

The ideal professional camera is rugged yet not so massive as to compromise usability. The entire body of EOS-1Ds Mark III, including its internal chassis and mirror box, is made of an advanced magnesium alloy. In lesser cameras, these parts are typically made of composite materials. Exceptionally strong and rigid, this alloy results in a camera that can truly withstand the punishment routinely meted out by many professional photographers. At the same time, it makes the camera lighter for improved handling and maneuverability.

Extensive weatherproofing ensures superior reliability, even when shooting in harsh environments. Rubber gaskets are used at nearly every joint and seam—including around the battery compartment cover, memory card door, and flash shoe—to keep out moisture and dust. 

Location of Major Water-Resistant Measures



## 63-zone Metering System

A new 63-zone metering sensor combined with sophisticated new metering algorithms delivers more precise and stable exposure calculation over a wider range of



63-zone Metering

shooting situations. Both available-light and flash metering performance have been improved. The metering sensor zones optimally match the 19 primary AF points. Photographers can choose from among automated evaluative, partial area (8.5% at the center), spot (2.4% at the center), multi-spot, and center-weighted average metering modes. 

## A New Full-Frame Performance Standard

The new CMOS sensor developed by Canon for the EOS-1Ds Mark III delivers approximately 21.1 effective megapixels (5632 x 3750 pixels). It makes possible ultra-high-resolution digital photography. No other DSLR can capture images with as much detail or with such tonal precision.\* The large amount of image data recorded result in enhanced large-output capabilities and unprecedented post-processing flexibility. 

\*As of January 2008.



# Dependable, Repeatable High Image Quality

SMALL PRODUCT



The Wireless File Transmitter WFT-E2A integrates elegantly with the EOS-1Ds Mark III, is powered by the camera body, and is durable and weather-resistant as the camera itself.

## COMMERCIAL: SMALL PRODUCT

“The EOS-1Ds Mark III is great! The ability to capture fine image detail is of paramount importance in my work, and this camera truly delivers. What also impressed me is the precise rendering of tonal nuance over a wide range of light values, which is equally important in my images. The new camera features—like the bigger 3.0-inch LCD, Live View Function, and improved wireless capabilities—are exactly what I’ve wanted for tabletop work. A superior tool... a joy to use.”



— Michel Tcherevkoff  
Canon Explorer of Light  
& PrintMaster

## Large 3.0" LCD Monitor with Live View Function

The 3.0-inch LCD monitor on the EOS-1Ds Mark III provides the photographer with a large, bright, detailed view of images and graphical data. The bigger image area makes it easier than ever to confirm capture, check memory card contents, confirm shooting parameters, and access all menu options.

Moreover, the EOS-1Ds Mark III features a sophisticated Live View Function, which makes the 3.0-inch LCD monitor a real-time finder. When the Live View Function is enabled, the reflex mirror is locked up and the shutter opened. The image output from the CMOS sensor will be displayed in real time on the LCD monitor at 100% coverage. A



with 10x Magnification

selectable portion of the image can be magnified by 5x or 10x to aid in precise manual focusing. Manual focus, exposure check, composing, and shooting can all be accomplished in this mode.

Live View Function is convenient for tripod-mounted shooting, macro work, and other situations in which it would be a physical strain to keep the eye at the viewfinder. The Live View Function image can also be displayed on a TV monitor, which is ideal for showing images, as they are being composed, to clients and portrait subjects. 45

## Highlight Tone Priority

Activated via a Custom Function, the Highlight Tone Priority mode employs sophisticated processing algorithms to preserve greater detail in image highlight areas—a perennial problem for digital photographers, especially



Highlight Tone Priority: ON

Highlight Tone Priority: OFF

those who work in bright sunlight or contrasty studio lighting. Highlight Tone Priority actually expands the available range of capture in the highlights, yet it exacts no penalties in either shadow detail or camera performance. It benefits photographers who shoot RAW images as well as those who rely on in-camera processing. 46

## Stunning Image Quality

The EOS-1Ds Mark III features a new Canon full-frame 21.1-megapixel CMOS sensor. Compared to typical smaller digital camera sensors, the Canon full-frame sensor can accommodate a tremendous pixel count while maintaining larger individual pixel site size. Larger sites improve light gathering capability, enabling the sensor to produce a cleaner, more noise-free image. The Canon full-frame sensor thus delivers ultra-high-resolution images of exacting precision with unrivaled color richness and tonal accuracy. 48

# Record with Precision and Artistry



## ARCHITECTURE

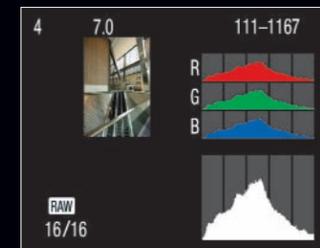
“I much enjoyed using the EOS-1Ds Mark III. It is a superb piece of equipment capable of holding its own when compared to a 4 x 5 view camera. With its extraordinarily high resolution in combination with ease of operation, I predict this will become the tool of choice for many architectural photographers.”



— Norman McGrath

## Wide Dynamic Range

The outstanding image capture performance of the full-frame Canon CMOS sensor, the extended bit depth of the A/D converters, and the advanced design of the Dual “DIGIC III” Image Processor ensure not only abundant detail but also superb dynamic range. The EOS-1Ds Mark III thereby addresses a critical shortcoming among many of today’s digital cameras. It is better able to capture a wide range of light values without blowing out highlights or losing shadow detail. Subtle tonal gradations are also more accurately recorded.



## The Full-Frame Optical Advantage

DSLR cameras with smaller sensors, by comparison, require a focal length conversion factor that effectively narrows the field of view as though you’ve added a telephoto converter. EOS Digital SLR cameras with full-frame sensors let photographers use the entire range of superb Canon EF lenses without a conversion factor, making it possible to take full advantage of the specific optical characteristics for which the lenses were designed.



## Highlight Tone Priority

The Highlight Tone Priority mode can be activated via Custom Function to help preserve greater detail in image highlight areas. It actually expands the available range of capture in the highlights, yet it exacts no penalties in either shadow detail or camera performance. It benefits nearly all professionals—for example, a nature photographer shooting winter snow scenes, a wedding photographer seeking to preserve detail in the bride’s dress, or an architectural photographer facing a high-contrast scene in bright sunlight.

## 63-zone Metering System

A new 63-zone metering sensor combined with sophisticated new metering algorithms delivers more precise and stable exposure calculation over a wider range of shooting situations. Photographers can choose from among automated evaluative, partial area (8.5% at the center), spot (2.4% at the center), multi-spot, and center-weighted average metering modes.

## Canon EOS Tilt-Shift Lenses

Canon TS-E lenses are capable of tilt and shift movements that normally require the use of technical view cameras. Tilt movements alter the angle of the plane of focus between the lens and the focal plane, making broad depth-of-field possible even at wider apertures. These capabilities greatly expand the versatility of the EOS System and are ideal for specialized applications, such as architectural photography.

# Advanced Capabilities for Specialized Applications



## INDUSTRIAL/SCIENTIFIC

“The EOS-1Ds Mark III is a pleasure to shoot with. As a location and studio photographer both, I find its many levels of menu options allow you to customize the camera for multiple needs, such as multiple custom white balances. The large LCD monitor is crisp and clear in every situation I have faced. Finger tip controls are well thought out and very straight forward. In the end, it all adds up to confidence! I'm comfortable in any situation. I know I have a file that's of the highest quality and a size that fits any of my clients needs.”



— Paul Castle

### Lenses and Accessories for High-Magnification Photography

Four Canon EF macro lenses, a Life-Size converter, two extension tubes, and three screw-on close-up lenses make the EOS System lineup a formidable tool for precision high-magnification photography, revealing detail undetectable by the unaided human eye. Macro Twin Lite and Ring Lite options provide superior close-up lighting solutions.

### Integrated Cleaning System

Because professional photographers must change lenses in all kinds of adverse environments, Canon invented the Integrated Cleaning System, which uses ultrasonic vibration to remove dust that can settle on the sensor surface. The EOS-1Ds Mark III is the world's only full-frame digital SLR with a built-in sensor cleaning system.\*



\*As of January 2008.

### Sophisticated Flash Capabilities

Canon E-TTL II technology incorporates distance information from compatible EF lenses to ensure the most precise flash exposure and deliver versatile lighting control. Canon EX series Speedlites provide advanced wireless and automatic multiple-flash capabilities to deliver superior lighting solutions for a wide variety of specialized shooting applications.

### GPS Support for Field Work

The optional Wireless File Transmitter WFT-E2A (for EOS-1Ds Mark III and EOS-1D Mark III cameras) and the WFT-E3A (for the EOS 40D) can communicate with compatible third-party GPS devices connected via USB. Latitude, longitude, altitude, and Universal Time are all recorded in each image's EXIF shooting data. This enables location coordinates to be recorded for each picture, as it's taken.



# EOS-1D

## Mark III

### **EOS Reborn.**

Professional photographers know what they want in a camera. Above all, the camera must be dependable, even in harsh environmental and handling conditions. The camera must be responsive, reacting instantly to the photographer's input. It must provide a sophisticated feature set that does not compromise operability. And, of course, it must deliver image quality beyond reproach. Today, professionals have a choice that meets these criteria as no other: the Canon EOS-1D Mark III. Redesigned and re-engineered from the ground up, Canon's feature-packed EOS is destined to become the "must have" Digital SLR for professionals.



# Spectacular Image Quality

CHILD PORTRAIT



Dual "DIGIC III" Image Processors

## CHILD PORTRAIT

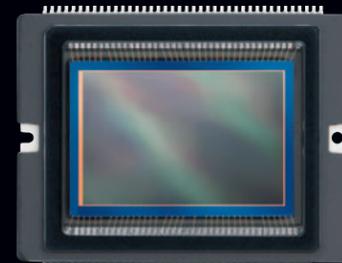
“The first time I picked up the Canon EOS-1D Mark III, I was thrilled about the way it felt in my hands. This capture device is a true extension of my body. It has become a fluid part of my session work flow. It lets me work quickly and efficiently without worrying about how my equipment performs.”



— Sandy Puc  
Canon PrintMaster

## 10.1 Megapixel CMOS Sensor

The EOS-1D Mark III features a newly developed 10.1-megapixel Canon CMOS sensor. It fulfills the primary functions of an imaging sensor—sensitive, accurate, noise-free capture of image data—with unprecedented performance. Its APS-H size imaging area results in what many professionals consider a very convenient 1.3x lens conversion (image area crop) factor in relation to full-frame 35mm film. Moreover, it incorporates Canon's latest CMOS engineering advances that significantly reduce digital noise—especially in shadow areas—and expand the useful ISO range. 



APS-H Size CMOS Sensor (Actual Size)

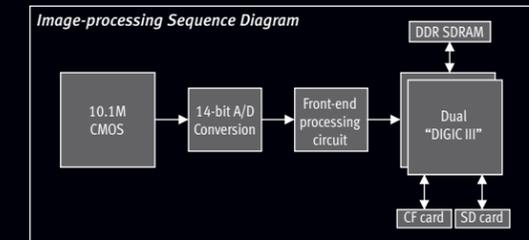
## Exceptionally Wide ISO Range

Combining the superb image capture capabilities of the new sensor with advanced Dual "DIGIC III" data processing, the EOS-1D Mark III offers an incredibly wide range of ISO settings. The standard range of 100–3200 can be extended to a remarkable 50–6400.\* More importantly, the low-noise performance at high ISO settings makes the entire range usable in real-world shooting situations. 

\* Standard output sensitivity. Recommended exposure index.

## Dual "DIGIC III" Image Processors

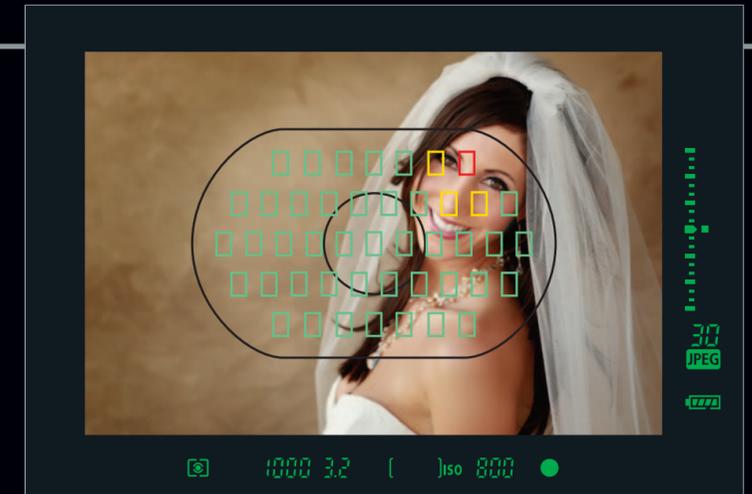
The EOS-1D Mark III employs Canon's latest DIGIC III Image Processor, which maintains the extremely high image quality standard of its predecessor but, amazingly, attains even higher processing speed. Moreover, the EOS-1D Mark III uses not one, but two DIGIC III Image Processors operating in parallel to provide even greater data handling capability. The resulting imaging engine handles the huge amount of data from the 10.1-megapixel sensor with tremendous speed. There's never a need to lower image quality settings to achieve full 10 fps performance. 



## 14-Bit A/D Converters

Whereas earlier EOS digital cameras used 12-bit A/D (Analog-to-Digital) converters, the EOS-1D Mark III employs new 14-bit converters to process the output of the imaging sensor. This ensures smoother tonal transitions and more natural gradations. RAW images are recorded at 14 bits so that the full range of tones captured by the sensor are available in 16-bit TIFF images.

# Unprecedented Autofocus and Metering Performance



Viewfinder image simulated to show activated assist points in Custom Function C. Fn III-8-2.

## WEDDING PHOTOJOURNALISM

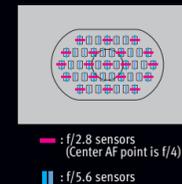
“The EOS-1D Mark III is perfect for all serious wedding photographers. The camera is responsive so I never miss a shot. The battery lasted for almost 2000 images. Since I always use my LCD as a sales tool, the large 3-inch screen is very useful. This camera attacks many of the issues wedding photographers face today and makes our job that much easier!”



— Michele Celentano  
Canon Explorer of Light

## Incomparable EOS AF Technology, Now Even Better.

The EOS-1D Mark III incorporates new Canon autofocus (AF) technologies that bring about improvement in key performance areas. An area-type AF sensor features increased pixel sensitivity, which delivers markedly improved focusing performance in low-light situations. Compared to its predecessor, the EOS-1D Mark III delivers AF sensitivity one full stop better in dark scene areas. The area AF system has 19 selectable high-precision cross-type points plus 26 assist points for a total of 45 AF points. The 26 additional assist points can be used to expand the coverage area of any manually selected primary AF point. The cross-type points are now not only positioned in the central area but also at the outer edges of the AF sensing area. The superior speed, precision, and low-light sensitivity of this new system are especially noticeable when shooting with longer Canon EF lenses.



## 63-zone Metering System

A new 63-zone metering sensor combined with sophisticated new metering algorithms deliver more precise and stable exposure calculation over a wider range of shooting situations. Both available-light and flash metering performance have been improved.

## Highlight Tone Priority

Activated via a Custom Function on the EOS-1D Mark III, the Highlight Tone Priority feature employs sophisticated processing algorithms to preserve greater detail in image highlight areas—a perennial problem for digital photographers, especially in bright sunlight or contrasty studio lighting. It actually expands the available range of capture in the highlights, yet it exacts no penalties in either shooting speed or burst rate. It benefits photographers who shoot RAW images as well as those who rely on in-camera processing. Highlight Tone Priority is a win-win proposition for professional photographers of nearly all disciplines. A sports photographer shooting white baseball uniforms in bright sunlight stands to benefit as much as a nature photographer shooting winter snow scenes or a wedding photographer seeking to preserve detail in the bride’s dress.

## Auto Crop to Various Aspect Ratios

Custom Function IV-14 provides a choice of six different aspect ratios corresponding to familiar medium- and large-format film sizes, such as 6 x 4.5, 6 x 6, 6 x 7, and 4 x 5. Vertical framing lines corresponding to the selected ratio will appear on the LCD during Live View Function. Moreover, the setting is saved with the image, enabling Digital Photo Professional 3.0 (and up) to automatically crop and display it in the selected aspect ratio.



# A New Benchmark for Digital SLR Performance



## SPORTS PHOTOGRAPHY

“ I have been shooting with Canon EOS SLRs for over ten years, and I am very impressed with the way the EOS-1D Mark III handles and performs. As a professional sports photographer, I think it is the best performing camera on the market. The fast 10 frames per second, the instant shutter response, and the new auto focusing system are immensely helpful with difficult-to-capture images.”



— Terrell Lloyd  
Canon Explorer of Light



30 Frame RAW Image Burst

### Blazing Shooting Speed

With its astounding 10 fps maximum continuous shooting speed, the EOS-1D Mark III is the fastest AF digital SLR in the world (as of January 2008). This achievement is even more remarkable when you consider the sheer amount of data processing associated with a 10.1-megapixel sensor and 14-bit per channel recording. 

### Near-Instant Response

The EOS-1D Mark III is also incredibly responsive. It has the least lag time of any EOS Digital SLR (55ms, reducible to as low as 40ms via a Custom Function setting). At shutter speeds of 1/60 second and higher, the viewfinder blackout time is an ultra-short 80ms.

### Outstanding Burst Rate

The EOS-1D Mark III can capture up to 110 consecutive full-resolution JPEG images or up to 30 RAW images in a

single continuous burst (at shooting speeds up to the full 10 fps). 

### Separate AF Processing Unit

The EOS-1D Mark III uses an entirely separate AF processing unit, dedicated solely to AF operations, which includes driving the lens. This dedicated CPU design performs AF computations three times faster than any previous Canon EOS camera. The faster AF detection and computation make it possible for the EOS-1D Mark III to achieve its remarkable continuous shooting speed with full AI Servo tracking. Overall, the new AF system is better able to detect and react to a grossly out-of-focus image: the lens is more quickly driven to proper focus. It can also better adapt to sudden changes when tracking moving subjects. 



# A Bigger, Brighter, Better View of the World



## PHOTOJOURNALISM

“One of my greatest challenges is to capture fresh, new images of events that have been photographed hundreds of times before, so I’m always on the lookout for new technology that might give me an edge. The EOS-1D Mark III’s Live View Function has the potential to revolutionize remote photography, allowing me to mount cameras in locations I could only have dreamed of in the past.”



— Vincent Laforet  
Canon Explorer of Light  
& PrintMaster

## Redesigned Viewfinder with 100% Coverage

The EOS-1D Mark III viewfinder incorporates an entirely new optical system developed by Canon. It employs a larger pentaprism for higher viewfinder magnification and a brighter, sharper viewfinder image. The new design continues to provide full 100% coverage, which means what you see is what you get—no more, no less. The finder also features a high eyepoint design for easier viewing of the entire image and information area. Dioptic adjustment from -3 to +1 is included, as is an eyepiece shutter with high-visibility gray blades. 42

## Large 3.0-inch LCD Monitor with Live View Function

The EOS-1D Mark III’s LCD monitor is a full 3.0 inches diagonally, unsurpassed by any competitive digital SLR.\* The bigger image area makes it easier than ever to confirm capture, check memory card contents, confirm shooting parameters, and access all menu options. Moreover, the EOS-1D Mark III features a sophisticated Live View Function, which makes the 3.0-inch LCD monitor a real-time finder. When the Live View Function is enabled, the reflex mirror is locked up and the shutter opened. The image output from the CMOS sensor will be displayed in real time on the LCD monitor at 100% coverage. A selectable portion of the image can be magnified by 5x or 10x to aid in precise manual focusing. Focus, exposure check, composing, and shooting can all be accomplished in this mode.



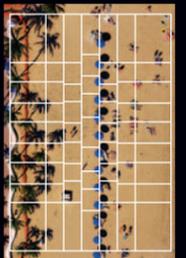
\*As of January 2008.

## Live View Function

Live View Function is convenient for tripod-mounted shooting, macro work, and other situations in which it is a physical strain to keep the eye at the viewfinder. The Live View Function image can also be displayed on a TV monitor which is ideal for showing images, as they are composed, to clients and portrait subjects as well as viewing on a computer monitor. With Canon EOS Utility software installed on the computer, you can check and adjust focus and composition in real time. You can even manually focus and fire the camera remotely from the computer. Wireless remote capture is available by using the WFT-E2A. 45

## Unparalleled Exposure Control

Canon EOS SLR cameras offer the photographer AE (auto exposure) with the widest range of metering options. Full-frame evaluative metering combines the EOS 63-zone sensor with focusing point data. Center-weighted metering is available for those who prefer a more traditional pattern. Partial metering limits readings to sensor zones in the center of the image area, concentrating readings in the central 13.5% of the picture area. Spot metering provides pinpoint readings and is suitable for advanced exposure control in tricky lighting conditions. And there’s Multi-Spot Metering, making it possible to take up to eight separate Spot readings, and have the camera automatically average them. 41



Camera: EOS-1D Mark III  
Lens: EF 70-200mm f/2.8L IS USM  
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# Rock Solid Reliability



WILDLIFE PHOTOGRAPHY

## WILDLIFE PHOTOGRAPHY

“Wow! Where to start... The EOS-1D Mark III's great new autofocus system... its 14-bit capture that gives me smoother color gradations... its blazingly fast speed... high-ISO images that are almost totally devoid of noise... the EOS Integrated Cleaning System (not a single speck of sensor dust in a week of shooting out in the wild)... This camera lets me create images I had never before thought possible.”



— Arthur Morris  
Canon Explorer of Light

## Lighter, Stronger, All-Metal Camera Body

The entire body of the EOS-1D Mark III, including its internal chassis and mirror box, is made of an advanced magnesium alloy. Exceptionally strong and rigid, this newly engineered body results in a camera that, even though lighter, can truly withstand punishment. **41**

## Weather-Resistant Design

Extensive weatherproofing ensures superior reliability, even when shooting in harsh environments. Rubber gaskets are used at nearly every joint and seam—including around the battery compartment cover, memory card door, and flash shoe—to keep out moisture and dust. **42**

## Unprecedented Shutter Durability

The EOS-1D Mark III features an improved heavy-duty shutter that has been durability tested to 300,000 cycles—unsurpassed among SLR cameras (as of January 2008). The EOS-1D Mark III provides the strength, durability and reliability to give confidence even in the hardest shooting conditions. **42**

## New Lithium-Ion Battery System

An entirely new lightweight, powerful lithium-ion rechargeable battery system was developed for the EOS-1Ds Mark III and EOS-1D Mark III. The LCD panel now provides an accurate reading of power percentage remaining in 1% increments, shots taken since last charge, and whether the battery should be reconditioned. **47**

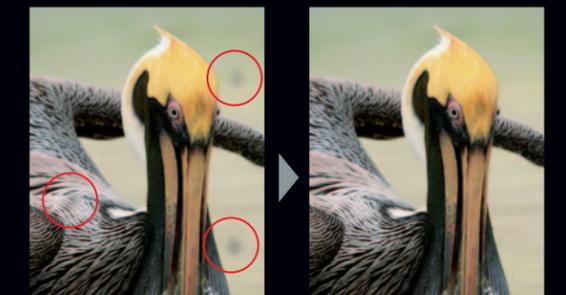
## EOS Integrated Cleaning System

Photographers who must change lenses in dusty environments will find the advanced Canon EOS Integrated Cleaning System a tremendous time saver. It uses both mechanical and software methods to effectively deal with dust accumulation on the imaging sensor. First, 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. (It can also be manually activated.)



Self-cleaning Sensor Unit

A special adhesive collar positioned around the sensor collects any loosened dust. Second, by photographing a plain white subject, the photographer can acquire data that can later be used by Canon's Digital Photo Professional (DPP) 3.0 software to automatically erase dust spots. **44**



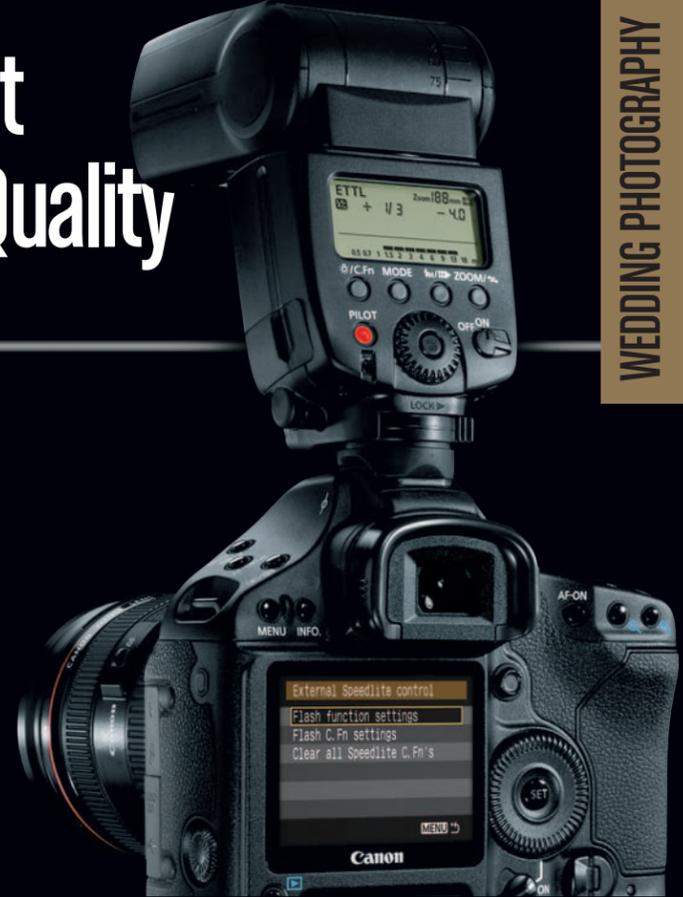
Dust Delete Function. Images Simulated.

Camera: EOS-1D Mark III  
Lens: EF 70-200mm f/2.8L IS USM  
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# System Accessories that Support Superior Image Quality



**E-TTL II Wireless Flash Control** — Two units were designated as “slaves” while the third unit was assigned the role of “master.” By using the master Speedlite’s Custom Functions, I was able to defeat the master’s unwanted output and illuminate the scene solely by the light emitted from the two stand-mounted slave units. — Bruce Dorn



## WEDDING PHOTOGRAPHY

“The EOS-1D Mark III is both evolutionary and revolutionary. This camera feels familiar to the hand, but offers so much more... like the Highlight Tone Priority custom function which significantly improves highlight detail. The 580EX II Speedlite is also an absolute flash of brilliance. Give me a couple of EOS-1D Mark III bodies, a few EF lenses and Speedlites, and I’ll happily tackle anything my demanding clients can throw at me.”



— Bruce Dorn  
Canon Explorer of Light & PrintMaster

## E-TTL II Flash Exposure Control

Extraordinary Canon E-TTL II autoflash exposure control technology takes advantage of the camera’s 63-zone metering sensor. With EX series Speedlites, a preflash occurs at shutter release. The camera performs instantaneous calculations based on readings from the preflash, ambient lighting conditions, and active focusing point information to determine the optimum flash output and exposure settings. The E-TTL II system also incorporates distance information from compatible EF lenses to ensure the perfect balance between ambient light and flash illumination, even with complicated lighting situations and compositions. 

## New Original Data Security Kit OSK-E3

This data verification kit can verify the originality and integrity of image data. It can also identify data elements (image pixels, EXIF text, GPS info, etc.) that have been altered. OSK-E3 can also encrypt image files to prevent unauthorized viewing. 



## New Wireless File Transmitter WFT-E2A

The compact, versatile WFT-E2A integrates elegantly with the EOS-1D Mark III and provides the same degree of durability and weather-resistance. Wireless LAN environment setup is simple with either Windows Vista or Mac OS X operating systems, and a new, more efficient built-in antenna for transmission to a computer up to 492 feet (150m)\* away. 



## Speedlite 580EX II

The high-durability, highly weather-resistant design of the new 580EX II matches the EOS-1D Mark III, ensuring dependable performance even under the most adverse shooting conditions. As the new flagship of the Speedlite lineup, the 580EX II incorporates numerous features requested by professional users, such as a metal shoe assembly, external sensor with thyristor control, and a PC socket on the flash for PC cord connection to a camera. Operability has been improved, as well: You can use the EOS-1D Mark III’s menus to set the Speedlite’s various options and Custom Functions. 



## An Unmatched Selection of Focusing Screens

The EOS-1D Mark III is equipped with the new Laser Matte Ec-C IV focusing screen, which provides superior 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 SLR cameras, the EOS-1D Mark III gives you a wide choice of interchangeable focusing screens. Currently, there are 11 optional screens—more than that offered by any other AF digital SLR in the world (as of January 2008).



\* With no obstructions between the transmitting and receiving antennas, and no radio interference. With a large, high-performance antenna attached to the wireless LAN access point.

## Overview: Entirely New Professional Cameras

The EOS-1Ds Mark III and EOS-1D Mark III are the products of a “reset to zero” design process in which every aspect of Digital SLR (single-lens-reflex) design and performance was reconsidered.

### EOS-1Ds Mark III: A New Full-Frame Performance Standard

**EOS-1Ds Mark III** The EOS-1Ds Mark III incorporates Canon’s newest CMOS sensor, which delivers approximately 21.1 effective megapixels (5616 x 3744 pixels). The recording area of the sensor is 36.0 x 24.0mm, which is equivalent to the full-frame size of the 35mm film format. Compared to typical smaller digital camera sensors, the Canon full-frame sensor can accommodate a tremendous pixel count while maintaining larger individual pixel site size. The EOS-1Ds Mark III can capture up to 56 consecutive full-resolution JPEG images or up to 12 RAW images in a single continuous burst (at 5 fps with 21.1-megapixel files). Larger sites improve light gathering capability, enabling the sensor to produce a cleaner, more noise-free image. The Canon full-frame sensor thus delivers high-resolution images of exacting precision, with unprecedented data density for enhanced large-output capabilities and post-processing cropping flexibility.

Full-frame sensors let photographers use the entire range of superb Canon EF lenses without a conversion factor, making it possible to take full advantage of the specific optical characteristics for which the lenses were designed. This is an important benefit for photographers who have a sizable EF lens collection.

### EOS-1D Mark III: Fastest DSLR Ever

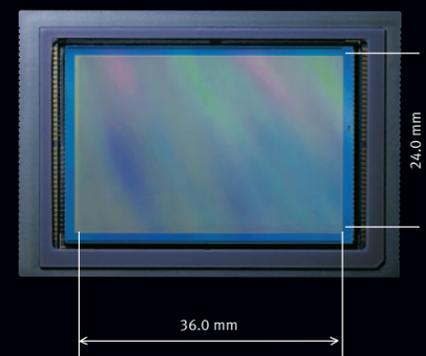
**EOS-1D Mark III** At a blazing 10 fps, the 10.1-megapixel Canon EOS-1D Mark III is the world’s fastest AF digital single lens reflex camera (as of January 2008). It provides this speed even at the full 10.1-megapixel resolution. A new shutter assembly, an all-new autofocus system and new Dual “DIGIC III” Image Processors contribute to the landmark speed. Large size JPEGs at compression level 8 (of 10) can be fired in barrages of 110 frames (at 10 fps with 10.1-megapixel files). RAW images can be shot in bursts of 30.

## Image Quality



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### Entirely New CMOS Sensor

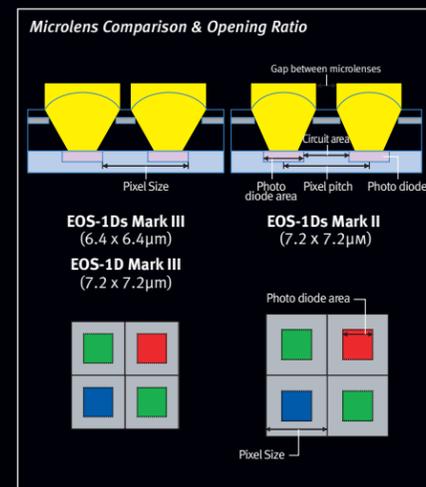


EOS-1Ds Mark III Full-frame CMOS Sensor (Actual Size)

The EOS-1Ds Mark III and EOS-1D Mark III’s new, Canon-designed and manufactured, CMOS single-plate sensor advances the state of the art in professional DSLR sensor design. The EOS-1Ds Mark III’s full-frame sensor is the largest sensor that can be imaged in one pass using cutting edge semiconductor manufacturing technology. The imaging area of the new CMOS sensor of EOS-1Ds Mark III measures 36.0 x 24.0mm (full-frame), and EOS-1D Mark III sensor size is 28.1 x 18.7mm (APS-H), appreciably larger than 22.2 x 14.8mm (APS-C).

### Effective Light-gathering

The EOS-1Ds Mark III sensor has 21.1 effective megapixels, and the EOS-1D Mark III sensor has 10.1 effective megapixels. Individual pixel size on the 1Ds Mark III’s sensor is 6.4µm, and the EOS-1D Mark III’s sensor is 7.2µm, the same as



the EOS-1Ds Mark II. Although the pixel size of the EOS-1D Mark III is 1 micron smaller than the pixel size of the EOS-1D Mark II and Mark II n, the photodiode size of both sensors is the same, thanks to the optimized photodiode construction and more sophisticated processing of the EOS-1Ds Mark III and EOS-1D Mark III.

By optimizing the gap between the on-chip microlenses and improving the fill factor (photo-diode area divided by total pixel size) of each pixel, light-gathering efficiency has been improved.

### Outstanding ISO Range

Combining the superb image capture capabilities of the new sensor with advanced Dual “DIGIC III” Image Processors, the EOS-1D Mark III offers the widest ISO range to date in a Canon EOS Digital SLR. The standard range of 100–3200 can be extended to a remarkable 50–6400.\*



More importantly, the low-noise performance at high ISO settings makes the entire range usable in real-world shooting situations.

\*CIPA standard output sensitivity. Recommended exposure index.

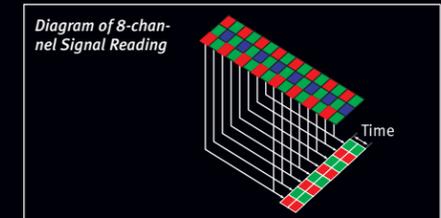
### Pixels Size and ISO Speed

Camera	Pixel Size (µm)	ISO Speed
EOS-1Ds Mark III	6.4 x 6.4	100-1600, L(50), H(3200)
EOS-1D Mark III	7.2 x 7.2	100-3200, L(50), H(6400)
EOS-1D Mark II n	8.2 x 8.2	100-1600, L(50), H(3200)
EOS-1Ds Mark II	7.2 x 7.2	100-1600, L(50), H(3200)

### Low Noise, High Speed

A second-generation, on-chip, noise-reduction circuit is provided. To achieve even less noise, the EOS-1Ds Mark III and EOS-1D Mark III have a new feed-through output amp that attains both high speed and low noise. Low noise is also achieved with an improved manufacturing process, an optimized pixel amp and an optimized reading circuit.

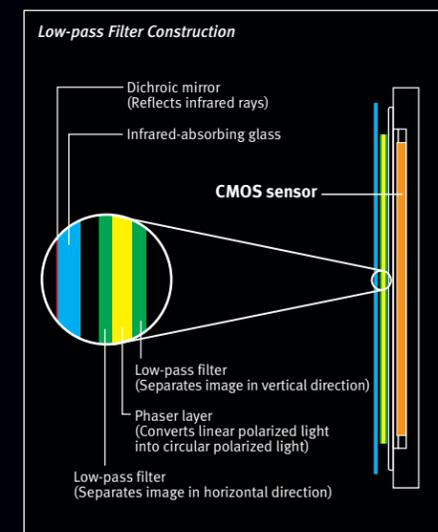
The EOS-1Ds Mark III and EOS-1D Mark III employ a single-line, 8-channel reading. With



a faster output amp and optimized read circuit, a continuous shooting speed of approximately 5 fps/10 fps is attained.

To minimize the higher power consumption required by the faster signal reading, the output amp’s power consumption has been reduced. Also during long exposures, power to the output amp is turned off and the standard current driving the circuit is also cut off to save power. In addition, during shooting with Live View Function, the power distribution for the signal-reading operation is optimized for more pinpoint power-saving control.

Previously, in front of the sensor, there was an infrared-absorption glass integrated with a three-layer low-pass filter. However, for the Self Cleaning Sensor Unit, the infrared-absorption



glass is now separate from the three-layer, optical crystal plate. This makes the dust-shaking plate lighter, saving power and making it easier to control.

The infrared filter has a hybrid construction; it has an infrared-absorption glass with multiple coatings to reflect infrared and ultraviolet rays. It effectively reduces red fringing and color casts caused by reflections of the sensor surface. A sophisticated low-pass filter is also utilized, behind the IR-cut filter, to minimize color artifacts such as moiré.

## Performance: Dazzling Speed, Superb Precision

### Dual “DIGIC III” Image Processors

DIGIC II, a high-performance imaging engine that has been used since the EOS-1D



Mark II in 2004, has been a major feature of Canon digital cameras because of its very fine image detail, natural color reproduction and high-speed signal processing. DIGIC III retains the DIGIC II’s basic concept and improves upon it with higher performance and faster speed. To cope with the voluminous signal processing required by the EOS-1D Mark III’s 10.1 megapixels and top continuous shooting speed of 10 fps, two DIGIC III imaging engines are incorporated for parallel signal processing. The CMOS sensor reads out to the Dual “DIGIC III” Image Processors simultaneously in eight channels. For the EOS-1Ds Mark III’s 21.1 megapixels, Dual “DIGIC III” works for ultra-fine detail, natural color reproduction, and high-speed image processing.

The extra power of Dual “DIGIC III” Image Processors has also allowed analog-to-digital conversion to improve from 12 to 14 bits per channel, meaning that tonal gradation for RAW images is now divided into 16,384 separate levels per channel rather than 4,096. When saved as a 16-bit TIFF image, the image retains the full range of tones obtained with 14 bits. Also, JPEG images, at 8 bits per color, are generated from the 14-bit data. Tonal skipping is thereby reduced substantially, improving gradation and overall image quality.

### Blazingly Fast Shooting Speed and Outstanding Burst Rate

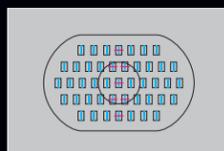
At a blazing 10 fps, the 10.1-megapixel Canon EOS-1D Mark III provides not only incredible speed when you need it, but also has an amazing burst rate of 110 JPEG/30 RAW continuous frames. The EOS-1Ds Mark III provides a continuous shooting speed of 5 fps at its full 21.1-megapixel resolution. It can also capture up to 56 consecutive full-resolution JPEG images or up to 12 RAW images in a single continuous burst. A new shutter assembly, an all-new autofocus system and new Dual “DIGIC III” Image Processors contribute to the landmark speed of the EOS-1Ds and EOS-1D Mark III.

## Entirely New High-precision AF System

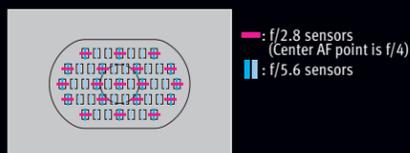
The new autofocus system of the EOS-1Ds Mark III and EOS-1D Mark III represent a complete reconsideration of professional autofocus. In addition to a new sensor chip, sophisticated new manufacturing technologies have made it possible to reconfigure the concave submirror and the very clever secondary image formation lens. The result is greater sensitivity, easier and more logical navigation, higher precision and significantly better real-world performance.

In the previous 45-point AF system used by such cameras as the EOS-1v, EOS-1D, EOS-1Ds, EOS-1D Mark II, EOS-1Ds Mark II and EOS-1D Mark II N, there were seven cross-type, high-precision sensors grouped around the center of the frame. Any of the 45 points could be selected by navigating around the frame.

This was the configuration of the previous 45-point AF array:



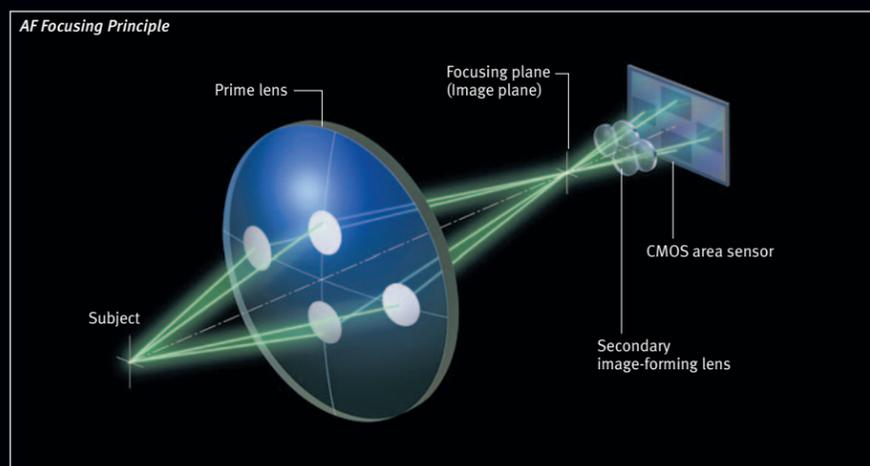
Here is the new AF point layout:



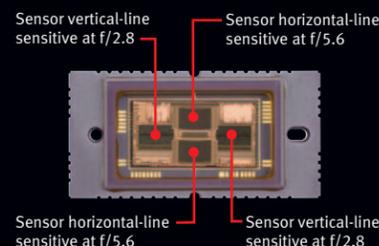
Note that the 19 high-precision, cross-type points are no longer clustered solely in the center of the frame. The 26 additional Assist AF points are horizontal-line sensitive at f/5.6, are not user-selectable, but can be added to a manually-chosen point to expand its size, and are also used in Automatic AF point selection mode.

## Speed and Predictive-AF Performance

The EOS-1Ds Mark III and EOS-1D Mark III feature higher precision AF with the 19 user-selectable, high-precision cross-type AF points and improved low-light AF performance. Also, to attain AI Servo AF with the EOS-1D Mark III for 10 fps, the focus



computing is faster and an AF adjustment option function is provided. The AF sensor, AF computation method, and AF-related electronic circuitry have been newly designed for the EOS-1Ds Mark III and EOS-1D Mark III. This robust new AF system provides even greater consistency in high-speed sequences when tracking moving subjects. Even at its top speed of 10 fps, the EOS-1D Mark III is less likely than before to have the occasional soft frame in an AI Servo AF sequence.



## Separate CPU for AF

One important difference between the EOS-1D series and other EOS bodies is that a totally separate CPU is used strictly for AF processing. (In other EOS bodies, one main processor handles primary camera tasks as well as AF processing.) To attain 10 fps with AI Servo AF (EOS-1D Mark III), the AF CPU and camera CPU are both the latest microcomputers (AF CPU: 48 MHz, 32-bit RISC; Camera CPU: 40 MHz, 32-bit RISC).

The 19 cross-type AF points take advantage of the following technologies:

- With finer processing steps, the peripheral

circuit could be made smaller and the f/2.8 AF sensor area could be expanded.

- The secondary image-forming lens (see diagram) is molded glass. By incorporating a newly-developed aspherical surface on the lens, the focusing area of the f/2.8 light flux could be expanded.

Each of the 19 cross-type AF points uses a high-precision horizontal component, with about 3x the focusing precision of the vertical component. The benefit is that AF accuracy at the sensor is enhanced when the photographer needs it most—shooting with fast lenses, at wide apertures.

This means that on the actual AF sensor, the horizontal line pairs are significantly farther apart—and thus require a lens with a maximum aperture of f/2.8 or faster in order to operate. At the center AF point, the high-precision horizontal line sensor works with lenses f/4 or faster. In other words, with fast lenses, two benefits are realized: added precision, and simultaneous vertical and horizontal coverage—ideal for focusing on subjects with little detail. When lenses with slower maximum apertures are used, only the vertical AF line sensor is active at each AF point.

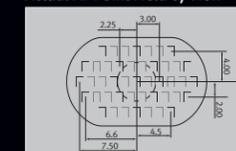
Improvements to the EOS-1Ds Mark III and EOS-1D Mark III's AF sensor give even greater light-gathering efficiency (for both the horizontal and vertical line sensors), and greater low-light AF sensitivity. In addition, the camera's ability to latch onto subjects with little detail is

improved. Not only is the AF sensor new, but the entire AF optical system is also newly designed, including the vital secondary image-forming lens.

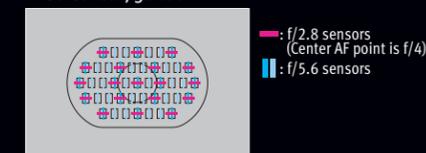
Lenses (or lens + extender combinations) with maximum apertures as slow as f/5.6 can be used with AF at all focusing points. At the center AF point only, the camera can focus with a lens + extender with a maximum effective aperture as slow as f/8 (using the vertical line sensor only).

The remaining 26 AF points are "Assist Points." Each has a single-line vertical sensor, and these points will focus with lenses having maximum apertures f/5.6 or faster.

## Actual AF Point Field of View



## AF Sensor Configuration

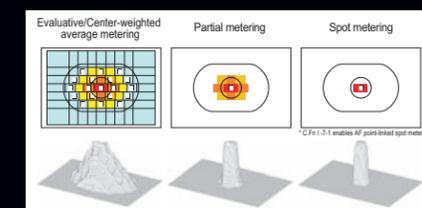


With the EOS-1Ds Mark III and EOS-1D Mark III, the size of a user-selected AF point can be expanded (via Custom Function III-8) regardless of whether the camera is in One-Shot AF mode or AI Servo AF mode. As noted previously, the AF Assist Points are also used when the camera picks the AF point(s) in Automatic AF point selection mode.

For low-light focusing, the both cameras are much more sensitive than previous models. The CMOS AF sensor's pixel sensitivity has been improved, thanks to improved pixel characteristics, an improved pixel fill factor due to finer semiconductor manufacturing processes, and optimized pixel size. As a result, the EOS-1Ds Mark III and EOS-1D Mark III's AF sensitivity have been improved to EV -1 through EV 18 (at 73°F/23°C, ISO 100).

## New 63-zone Metering System

The EOS-1Ds Mark III and EOS-1D Mark III incorporate a newly-developed, 63-zone metering sensor linked to the 19 AF points. The metering sensor is located at the rear of the pentaprism. The 19 AF points in the Area AF are a highly favorable match for the metering sensor's zones. The metering range is EV 0 to EV 20 (at 73°F/23°C, 50mm f/1.4 lens, ISO 100). The following metering modes are provided: evaluative, partial, spot, and center-weighted average. Also, AF point-linked spot metering is possible with C.Fn I -7-1. Partial metering reads approximately 8.5% (EOS-1Ds Mark III)/13.5% (EOS-1D Mark III) of the viewfinder and spot metering reads approximately 2.4% (EOS-1Ds Mark III)/3.8% (EOS-1D Mark III).



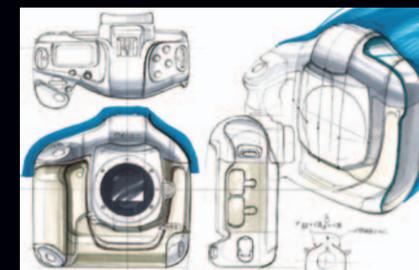
This new Evaluative metering system is based on the concept for the previous 21-zone and 35-zone metering systems. With the optimized 63-zone metering sensor and improved calculations and processing, more consistent and correct ambient and flash exposures are obtained with less influence from the subject. The basic concepts for the 63-zone evaluative metering are:

1. Metering is weighted on the linked AF point.
2. If there is a very bright object in the picture, the exposure will be increased.
3. In backlit scenes, the exposure will be increased.

With dark backgrounds, the exposure will be reduced. The E-TTL II autofocus algorithm uses the same newly-developed 63-zone metering sensor. While based on the previous system which weighted the metering based on the preflash reading, the EOS-1Ds Mark III and EOS-1D Mark III have been further improved to obtain consistent flash exposures. The major improvements are:

1. Correct flash exposures are obtained even with off-center subjects.
2. The incorporation of lens distance information has been optimized to obtain more accurate flash exposures even with highly reflective backgrounds.

## Built to Perform: Durable, Rugged, Precise



Design Sketches for the EOS-1D Mark III.

## New 1-Series Body

Both EOS-1Ds Mark III and EOS-1D Mark III retain and refine the beautiful curved surfaces and superb basic layout of the EOS-1 series. Ease of operation and holding comfort have been improved appreciably, as have ease of operation with accessories. The cameras are designed to be easier to understand and more reassuring. The massive strength of its magnesium alloy body and chassis, combined with complete environmental sealing, means that the cameras stand with its forebears as an instrument worthy of the photographers who risk their lives daily to take pictures.

## All Magnesium-alloy, Including Mirror Box and Chassis

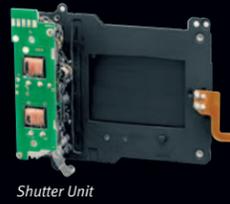


EOS-1D Mark III Magnesium-alloy Body

Because of its lightweight and strength, magnesium alloy is used for the 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 to make the body very strong, rigid, and light. The magnesium alloy also works as an electromagnetic shield. It is highly durable, allowing minimal wear even under harsh conditions.

## New Shutter, Tested to 300,000 Cycles

The EOS-1Ds Mark III and EOS-1D Mark III's shutter unit have been improved to increase durability and to reduce the generation of dust. It is now rated for 300,000 shutter cycles, a figure unsurpassed by any other digital SLR (as of January 2008). To attain this level of ruggedness, surface finish and heating processes in manufacturing have been changed for specific highly durable parts. To increase stability and shutter precision, a PR (Photo Reflector) is newly employed to detect the slit-passing time. For the X-sync contact, the mechanical contact has been eliminated to prevent contact scorching and wear.

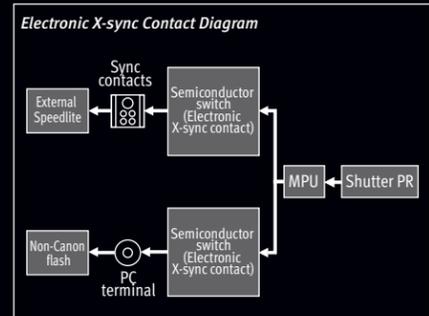


Shutter Unit

### Shutter Design Specifications

Item	Specification
1. Type	Vertical travel, focal-plane shutter
2. Shutter curtain type	Parallelogram link type
3. Shutter curtain blades	1st curtain: 4 blades, 2nd curtain: 4 blades, total 8
4. Shutter curtain materials	1st curtain: Two carbon blades, two duralumin blades 2nd curtain: Two carbon blades, two duralumin blades
5. Drive system	1st curtain: Dedicated torsion spring 2nd curtain: Dedicated torsion spring
6. Speed control method	Mechanical shutter with tension released by a rotary magnet, all shutter speeds electronically-controlled
7. Curtain speed	Approx. 2.3ms/21.0mm
8. Shutter speed range	1/8000 sec. - 30 sec. bulb
9. Max. flash sync.	1/300 sec.
10. Signals	1. X-sync, 2. 2nd curtain travel-completed signal

By employing PR signals for the electronic X-sync contact (a semiconductor switch), reliability is improved. By optimizing the sync timing, an X-sync speed of 1/300 second is now attained with EX-series Speedlites.

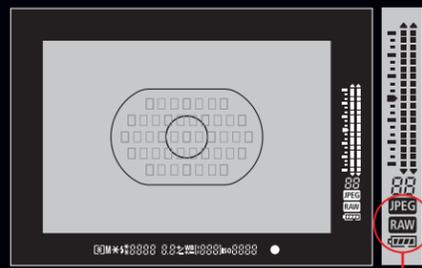


## Weather-resistant System

The legendarily excellent water- and dust-resistant construction measures are incorporated at 76 places around the camera controls and along cover seams. Also, O-rings are used on the memory card slot covers and the battery compartment, and silicon rubber is employed around the top and rear covers and buttons where the user can see it and feel reassured. The cameras' hot shoe is shaped to resist water with a rib around its perimeter. When the Speedlite 580EX II is attached, water resistance is maintained. When a water-resistant EF lens is attached to the camera, the entire camera-and-lens outfit will be moisture- and dust-resistant.

## New Viewfinder

The viewfinder optics are entirely new, and it's now easier to see, clearer and sharper. The viewfinder has approximately 100% coverage,

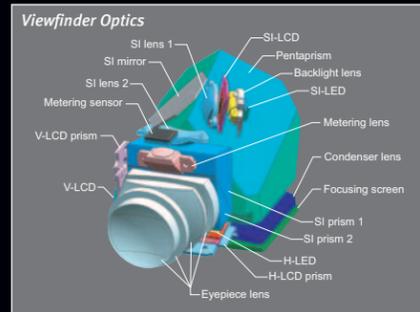


0.75x (EOS-1Ds Mark III)/0.76x (EOS-1D Mark III) magnification, a 35° (EOS-1Ds Mark III)/30° (EOS-1D Mark III) angle of view, a 20mm eyepoint, -3 to +1 dpt. dioptic adjustment, and an eyepiece shutter which is now gray to make it easier to see when it is closed.

### Major Viewfinder Specifications

Item	EOS-1Ds Mark III	EOS-1D Mark III
Coverage [Approx.]	100%	
Magnification	0.75x	0.76x
Viewing Angle	35°	30°
Eye point [Approx.]	20mm	
Dioptic adjustment	-3 to +1 dpt	

The viewfinder's optics have been developed to achieve best-in-class performance. A highly refractive material is used for the pentaprism of the EOS-1Ds Mark III and EOS-1D Mark III.



To improve viewfinder magnification, a larger pentaprism is employed. The basic configuration of the eyepiece optics is with four lens elements. However, by increasing lens power, high magnification is attained. Finally, the finder's parts are fabricated with greater precision for more consistent performance at higher magnifications.

The Ec-C IV focusing screen is a Laser Matte unit whose molding method has been improved over the previous Ec-C III focusing screen's. It makes it easier to focus and provides natural-looking background blur (bokeh). It is also brighter and



less grainy, making it a very well-balanced focusing screen. With the improved molding method, image transfer is better. The dispersion characteristic is improved, and the screen is brighter with minimal flare. Brightness at the outer edges, in particular, is improved over previous 1-series cameras. The Ec-C IV focus screen gives superb contrast and visual "snap," making it easy for photographers to tell when an image pops into sharp focus. All previous

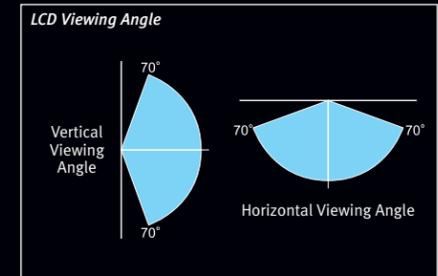
Ec-series focus screens can be used in the both cameras. Since the eyepiece frame now has a different shape to accommodate the bigger eyepiece lens, new Eg-series viewfinder accessories dedicated to both the cameras have been developed at the same time:

Eyecup Eg, Dioptic Adjustment Lenses Eg (7 types: -4, -3, -2, 0, +1, +2, +3), and Anti-fog Eyepiece Eg. Note that the old EOS-1 viewfinder accessories Eyecup Ec-II, Rubber Frame Ec, and Anti-fog Eyepiece Ec are not interchangeable with the Eg-series accessories. The newly-developed, standard Eyecup Eg has an improved mount for attaching it to the eyepiece. It is now less likely to detach inadvertently compared to the old eyecup.



Eyecup Eg

## Wide-view 3.0-inch LCD Monitor

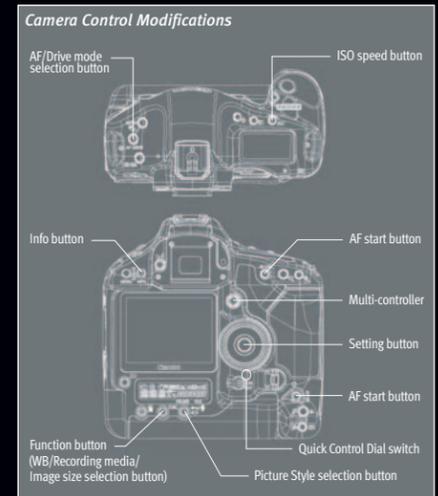


The large, 3.0-inch TFT monitor (1.4 times larger in area than 2.5-inches) features approximately 230,000 pixels, a wide viewing angle (140° both vertically and horizontally), high-level brightness, and low power consumption. The LCD monitor is backlit with four LED modules. The maximum brightness makes it easier to see the image on the LCD monitor even in bright outdoor conditions. The seven brightness adjustment levels make the camera more adaptable to environmental conditions. A large, clear grey scale is provided for guidance. Also, the color reproduction range has been increased to more closely simulate a personal computer monitor. The LCD monitor is not only larger, but easier to use and displays more informative than ever.

## Professional Features

### Revised and Simplified Operation

In order to provide the ease of operation that befits a new-generation EOS-1D series camera, Canon has thoroughly investigated ways to make camera operation easier. The camera now uses the EOS



Digital line's basic operation method with the Main Dial, Quick Control Dial, Multi-controller, SET button, and other buttons to select and set various functions. Also, the ISO speed button, AF Start (AF-ON) button, Picture Style button, and Memory selection/Image size/White balance function button have been newly added to make camera operation easier.

With the older EOS-1D series cameras, the basic shooting operation logic consisted of holding down a button and turning the Main Dial or Quick Control Dial to select a setting. However, with the new Mark III series, when you press a button, it remains active for a while so you can let it go and then turn a dial to set something. Several buttons are multi-purpose—press once and turn either the top Main Dial or rear Quick Control Dial for the respective functions.

The Multi-controller on the rear is new. It's used to select Menu headings, and provides several AF functions as well. If the AF point select button is pressed once, a push on the Multi-controller toggles between selecting the center AF point and Automatic AF point select mode. You can also memorize any of the 19 user-selectable AF points, and instantly jump back to it by pressing the Multi-controller.

### New Recording Options

The EOS-1Ds Mark III and EOS-1D Mark III offer some highly flexible image recording options. With the Wireless File Transmitter WFT-E2A, users can download directly to a compatible portable USB hard drive. Compatible devices range from popular and convenient USB thumb drives to many portable USB hard drives. With the CF card, SD card, and external media, the following recording functions can be used:

- Standard: Images are recorded onto one card (or connected hard drive).
- Automatic switching of recording media: When the current recording medium becomes full, the camera switches to another automatically and continues recording without interruption.
- Separate recording: A captured image can be recorded in different image sizes on different media. Each recording medium can be set to record a specific image size (L, M1, M2, S, RAW, sRAW) for each shot.
- Recording of identical images: A back-up mode, this records the exact same file type and size onto two cards and/or a connected hard drive.

SDHC (SD High-Capacity) is a new memory card standard (SDA Ver.2.00) established by the SD Card Association in 2006 to handle high-capacity data from 2GB to 32GB. Because it is compatible with SDHC, the camera can be used with SD cards having a capacity up to 32GB.

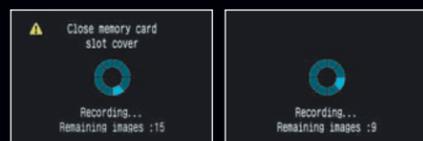
### Recording Quality Specifications: EOS-1D Mark III

Image Size	Pixels [Approx.]	File Size [Approx. MB]	Possible Shots [Approx.]	Maximum Burst [Approx.]		Printing Size
				Hi-Speed	Low-Speed	
L (Large)	10.1 (3,888x2,592)	3.5	260	110	260	11 x 14 or Larger
M1 (Medium1)	8.0 (3,456x2,304)	2.8	320	130	320	up to 11 x 14
M2 (Medium2)	5.3 (2,816x1,880)	2.1	420	140	420	Letter-size
S (Small)	2.5 (1,936x1,288)	1.2	710	160	710	Approx. 5 x 7
RAW	10.1 (3,888x2,592)	13.0	66	30	35	11 x 14 or Larger
RAW+						
L (Large)		13.0+3.5	52	22	27	
M1 (Medium1)		13.0+2.8	54	22	27	
M2 (Medium2)		13.0+2.1	56	22	27	
S (Small)		13.0+1.2	60	22	27	
sRAW	2.5 (1,936x1,288)	7.6	110	46	70	Approx. 5 x 7
RAW+						
L (Large)		7.6+3.5	76	28	35	
M1 (Medium1)		7.6+2.8	81	28	35	
M2 (Medium2)		7.6+2.1	87	28	35	
S (Small)		7.6+1.2	95	28	35	

The number of possible shots (battery life) and continuous shooting speed are based on Canon's testing standards and a 1GB CF card. The size of one image, number of possible shots (battery life), and continuous shooting speed are based on JPEG quality 8, ISO 100, and the Standard Picture Style. (These figures vary depending on the subject, memory card brands, ISO speed, Picture Style, etc.)

## Security

With both cameras, if the slot cover is opened during the writing operation, an alarm sounds and a warning message appears on the screen to indicate that writing is in progress. The card



On-screen message if the slot cover is opened

writing now continues even if the slot cover is opened. Also, if you set the power switch to <OFF> during the card writing, a message appears on the screen to indicate that writing is in progress. After the writing is completed, the power turns off. This works the same way as with the EOS Digital Rebel XTi.

You can protect individual images, all images in a folder, or all images on the card. Alternately, you can cancel image protection. You can erase individual images, all images in a folder, all images in the card, or just check-marked images (a new feature). Unprotected images will be erased.

## Copying Image Files

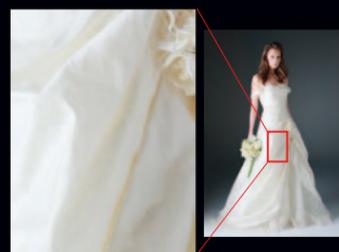
Selected images, a folder of images, or the entire contents of any memory card can be copied by the photographer onto another memory card—or attached USB hard drive—at any time. This gives the ability to make back-up copies of important images, whenever it's appropriate. If the Canon Wireless File Transmitter WFT-E2A is used, a compatible USB-enabled Hard Drive can be attached directly to the transmitter's USB port. Instead of having to bring a laptop computer on location, a photographer can quickly copy their files to a high-capacity hard drive during a break in shooting. It's an ideal option to provide security and peace of mind to the working professional.

Each EOS-1Ds Mark III or EOS-1D Mark III body comes with a unique 4-character prefix for its

file numbers. It also offers two user-defined options to tailor file naming to the shooter's needs: the user can set their own first four characters for file names (ABCD1234.jpg) or set the first three characters, and have the camera add the 4th to indicate size of the file (L for full-resolution, M for M1, N for M2, or S for Small JPEG/Small RAW—ABCL1234.CR2).

## Highlight Tone Priority

This new feature extends the dynamic range of highlights by about one stop and improves gradation within highlight areas. By expanding the range from the correct exposure level



Highlight Tone Priority: ON



Highlight Tone Priority: OFF

(18% gray) to the maximum allowable highlight level, the gradation from the grays to the highlights becomes smoother and loss in highlight detail is minimized. If [C.Fn II-3; 1: Enable] is set, the ISO range is ISO 200-3200 (EOS-1Ds Mark III: 20-1600).\* When active, zeros in the ISO display are lower case (200, 400, etc). Depending on shooting conditions, noise in the shadow areas may increase slightly.

\*Standard output sensitivity. Recommended exposure index.

## Integrated Cleaning System

Both the EOS-1Ds Mark III and EOS-1D Mark III incorporate the EOS Integrated Cleaning System, which is a



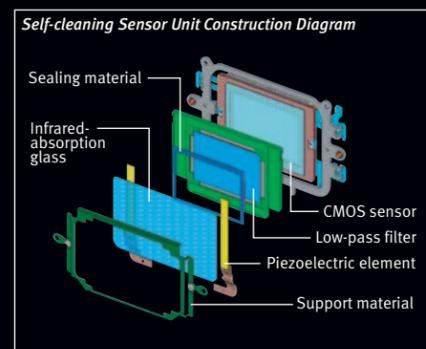
Self-Cleaning Sensor Unit

complete anti-dust system. It suppresses dust generation and dust adhering to the sensor, removes dust and makes any remaining dust less noticeable.

- The shutter has been improved to generate less dust.
- The IR-cut filter's anti-static charge surface prevents attracting dust due to static charge.
- The sensor unit is self-cleaning.
- Dust Delete Data can be obtained and appended to images.
- Manual cleaning of the imaging sensor using air is still an option.

The compact Self-Cleaning Sensor Unit is optimized for the large imaging sensors on the EOS-1D Mark III and full-frame EOS-1Ds Mark III.

On the front infrared-absorption glass, two thin,



single-layer piezo-electric elements are attached. By applying ultrasonic vibration to the infrared absorption glass, the adhering dust is shaken off. The removed dust particles stick onto adhesive material around the infrared absorption glass. Also, to prevent dust from entering the sensor unit, the assembly is secured with sealing material around the perimeter. Unlike some competitors who vibrate an extra glass plate, the EOS-1Ds Mark III and EOS-1D Mark III vibrate the infrared absorption glass directly, so the optical performance is not degraded by an extra layer of glass and the unit can be kept compact. The Self-Cleaning Sensor Unit can therefore be incorporated in a conventional size body.

Operation timing is either auto or manual. The default setting has the unit operating for about 3.5 seconds whenever you turn the power switch ON or OFF. While the unit is operating, the LCD monitor displays a logo indicating that sensor



Dust in the image is deleted by Digital Photo Professional software using "Dust Delete Data."

cleaning is being executed. If the menu is set to [Auto cleaning: Disable], the auto cleaning is not executed.

When the menu is set to [Clean now], you can clean the sensor whenever you wish. It takes about 4 seconds. During the cleaning, ultrasonic vibration is applied to the infrared-absorption glass and the shutter is cocked three times so that the dust falls off the infrared-absorption glass and any dust resettling on the shutter curtains is also shaken off. During sensor cleaning, whether started automatically or manually, pressing the shutter halfway or pressing the Menu button will immediately terminate the cleaning and the camera will be ready to shoot. Because the unit has very low power consumption, cleanings do not significantly affect the number of possible shots, even if the default Auto setting is selected.

To prevent the piezo-electric elements from overheating and to ensure proper cleaning, the unit cannot operate again within 3 seconds of finishing operation. Also, if the unit operates five times successively at intervals shorter than 10 seconds, it will not operate again for 10 seconds. During the stoppage, the [Clean now] menu option can not be selected.

The position and size of any remaining dust particles can be mapped onto each image, and the dust "cloned-out" with Canon's supplied Digital Photo Professional software (v.3.0 or higher). This removal of dust takes place with a simple mouse click, and can be automatically performed on one or hundreds of images at a time.

A "Dust Delete Data" test image needs to be taken to enable this, and after it's taken, the location of any remaining dust is added to each subsequent image. Activated via a Menu setting, the user simply sets their camera lens to infinity, and fills the frame with a plain white subject located about 1 or 2 feet away. A test shot is taken, with the camera switching momentarily to Av mode at f/22. The LCD monitor confirms whether Dust Delete Data was successfully acquired. Dust Delete Data can be updated whenever the photographer feels it's necessary.

## Live View Function

Live View Function is a significant addition to the professional DSLR shooter's arsenal. It is a terrific problem-solver for all those situations in which it would be awkward, difficult or impossible to look through the viewfinder to compose, meter and shoot. In response to the particular requests of studio and remote sports photographers, EVF (Electronic ViewFinder) shooting with a computer, wired or wireless, is now possible with the both EOS-1Ds Mark III and EOS-1D Mark III. By connecting the camera via USB to a computer with the EOS Utility 2.0 software provided, the computer will display in real time the image output by the camera's imaging sensor. You can then check and adjust the focus, subject framing and so forth in real time and shoot remotely. With the optional Wireless File Transmitter WFT-E2A attached, you can use a wireless LAN and see the Remote Live View Function on a computer without using a cable. Key features of Live View Function include a 100% field of view, precise manual focusing with 5x and 10x magnification, the ability to pre-visualize exposure, framing and focusing on a computer monitor, easy checking for moiré and false color, displaying film-related aspect ratios, and having a video-out terminal for TV display.

## Camera Live View Function

Instead of looking through the viewfinder, you can shoot while viewing the scene on the camera's LCD monitor. Compared to looking through the viewfinder, it provides the following advantages:

1. The real-time picture can be magnified by 5x or 10x to help make focusing more precise.

2. Shoot while checking the composition on the LCD monitor.
3. You can view a live histogram before the shot is taken (C.Fn IV-16-1, then press the INFO button to apply histogram).

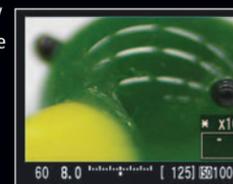
Live View Function is extremely effective in a variety of conditions. It's applied by first enabling it with a menu setting, and then pressing the SET button. The reflex mirror will then lock up, the shutter will open, and the image output from the CMOS sensor will be displayed in real time and 100% image coverage on the camera's LCD monitor. Press the SET button again and the reflex mirror will go back down and the shooting with Live View Function will end.

## Focusing

Focusing is manual-only with Live View Function. Use the multi-controller to move the AF point aimed over the area on which you want to focus, then press the Magnify button to enlarge the image by 5x or 10x at the AF point's position. Press the button again to return to normal view. At 5x or 10x magnification, you can focus manually while looking at the LCD monitor. To make it easier to focus during the magnified view, image sharpness is applied at a higher setting on the LCD monitor than it really is.



Live View Function Enabled



with 10x Magnification

Pressing the depth-of-field preview button, stops down to the aperture which will be used to take the picture. It will simulate the shooting exposure and you can check both the exposure level and depth of field. If you use depth-of-field preview during regular viewfinder shooting, the viewfinder will look dark and it may be difficult to see the depth of field. However, with Live View Function shooting, a clever simulation is displayed so checking the depth of field is easier as long as the exposure setting is near the metering's correct exposure.

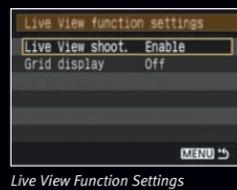
**Remote Live View Function**

Remote Live View Function is controlled through EOS Utility 2.0 (a major upgrade from version 1.1) or higher, included on the EOS Digital Solution Disk, Ver.14 or higher. The camera can be connected either wired with the provided USB 2.0 Hi-Speed cable, or wirelessly with the Wireless File Transmitter WFT-E2A. To get started, the camera must be set to enable Live View Function. Then, click the [Starting Live View] selection on the Remote Live View Function screen.



**Function Settings**

The metering mode is set to AF point-linked evaluative metering. Other shooting settings (shooting mode, drive mode, image size, ISO speed, exposure compensation, etc.) can be set in the same way as during viewfinder shooting. The metering timer is 16 seconds (including AE lock). Focus presets with super telephoto lenses cannot be used. Even during shooting with Live View Function, the power will turn off after the [Auto power off] time elapses. During Live View Function, pressing the MENU or playback button will terminate the Live View Function shooting and the menu screen or image playback will appear.



Live View Function Settings

**Metering and Exposure with Live View Function**

Evaluative metering directly off imaging sensor is used. The metering mode cannot be changed. The metering range is EV 0 to EV 20 (at 73°F/23°C, with EF 50mm f/1.4 lens). Any shooting mode and drive mode can be used. Also, AE lock, exposure compensation, AEB, and depth-of-field preview are possible. During magnified view, AE lock is automatically applied to the meter reading for the entire image. If C.Fn IV-16 [Live View exposure simulation] is set to 1: Enable (simulates exposure) and the shooting mode is P, Tv, Av, or M, then the LCD monitor's brightness will change in response to the expo-

sure setting so you can see how the exposure will look before you take the picture. When you press the shutter button completely, the opened shutter will close; the shutter will be cocked and released, and the picture will be taken.

If flash is used, the mirror must come down briefly. Pressing the shutter button completely will cancel the mirror lockup and the metering sensor will execute E-TTL II flash metering control (preflash fired and the correct flash output is retained). Then the reflex mirror is locked up again and the picture is taken. For continuous shooting, the maximum shooting speed as with normal shooting can be achieved. During continuous shooting, the LCD monitor is off. After the shooting ends, the captured image is displayed on the LCD monitor. When the user is ready to shoot again, the camera returns to the Live View Function display automatically.

As with viewfinder shooting, pressing the AE lock button during shooting with Live View Function will lock the current exposure and an asterisk will appear on the LCD monitor. During magnified view, AE lock will be applied automatically to the exposure level of the full view display. The Tv and Av settings will be displayed in orange. During the magnified view, the AE lock button will not work. With C.Fn IV -16-1, the picture brightness is also locked.

Normally, the image with Live View Function displayed by the LCD monitor is always displayed at the correct brightness, regardless of the exposure setting, for easy viewing similar to compact digital cameras. However, if C.Fn IV-16 [Live View exposure simulation] is set to 1, the picture will be displayed on the LCD monitor at virtually the same brightness as the final exposure will be – based on the current aperture, shutter speed, ISO, and exposure compensation settings. This enables you to see the exposure



No Compensation



1 1/3 stop Compensation

condition before taking the picture. Exposure simulation will not work with flash or long time exposures in Bulb mode. If you press the depth-of-field preview button, exposure simulation will be active at all times regardless of the C.Fn IV-16 setting.

**Info Display During Live View Function**

Below the image, the shutter speed, aperture, exposure level (exposure compensation amount, AEB level), flash exposure level, shots remaining, and ISO speed are displayed. In the magnified view, the magnified location, magnification, and AE lock status are displayed on the right of the image. In addition, when you press the INFO button,



C.Fn IV-14-1 (Aspect Ratio 6:6)



Aspect Ratio Display (6:6) Information Display 4

the Picture Style, battery check, AE lock status, and flash-ready are also displayed on the lower left of the image. If C.Fn IV -16-1 is set and you press the INFO button again, a brightness or RGB histogram appears on the right of the image. (For flash shots and bulb, the histogram display will be grayed out.)

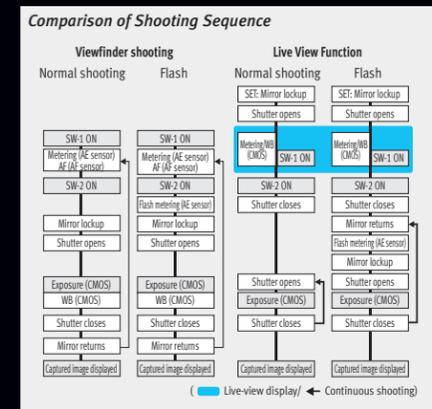
Press the INFO button again and only the image seen with Live View Function (without information) will be displayed. If [Grid display: On] has been set, a four-line grid will be displayed on the image. This can be used to check the vertical or horizontal orientation of the image. The grid appears only in the full view mode (not in the magnified view). Also, with C.Fn IV-14 [Add aspect ratio information] set anywhere from 1 to 6, you can shoot in the same aspect ratio as 6 x 4.5, 6 x 6, 6 x 7, and 4 x 5, corresponding to medium- and large-format film sizes.

When this feature is set, vertical lines matching the respective aspect ratio will appear on the screen.

You can then compose the subject within this frame. Since the aspect ratio information will be appended to the image, when you open the image with Digital Photo Professional 3.0 or higher, the image will be displayed in the aspect ratio that was set. Note that the image areas outside the vertical lines are not actually deleted and that when the image is played back with the camera, the vertical lines matching the aspect ratio will also appear.

**Shooting Sequence**

During shooting with Live View Function, the picture is displayed and then the reflex mirror locks up automatically to maintain display with Live View Function (and returns later).



The Live View Function display's frame rate is approx. 30 fps. The picture remains smooth even if you change the camera's direction or if the subject moves. If the camera direction is changed to a scene with a very different light level, the picture brightness seen with Live View Function will be thrown off for a moment. If this happens, wait until the picture brightness stabilizes again before shooting.

If the light source changes, the image seen with Live View Function may flicker. If this happens, stop shooting with the Live View Function and press the SET button to start shooting with the Live View Function again. During continuous shooting, the exposure for the first shot will also be applied to subsequent shots. If the sun or other bright light source enters the picture, the bright area might look dark. However, it will be correctly recorded as a bright area. Note that FE lock and modeling flash cannot be used.

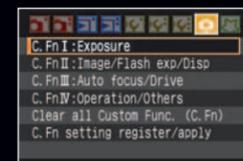
**Thermal Issues**

Live View Function can normally be used without a practical time limit, allowing photographers to shoot extensively without interruption. However, if Live View Function is used and the camera is in a hot area (such as in direct sunlight), it's possible for image quality to degrade slightly. Another factor that can increase camera temperature during Live View is use of a MicroDrive-type memory card.

To avoid this, an internal temperature sensor in the EOS-1Ds Mark III and EOS-1D Mark III will alert the photographer by displaying an icon on the LCD monitor shaped like a thermometer. In extreme conditions, Live View Function will terminate automatically. It's possible to return to Live View Function after the camera's internal temperature drops to a normal level.

**Custom Functions**

The old Personal Functions of the previous EOS-1D series have been consolidated with Custom Functions (C.Fn), 57 in all, with a new numbering system. They are organized in groups I to IV. Custom Functions are now pleasantly faster to select and set.



Custom Functions

**Speedlite 580EX II Flash C.Fn Settings**

No	Item	No	Description	No	Item	No	Description
0	Distance indicator display	0	Meters (m)	6	Quickflash w/continuous shot	0	Disabled
		1	Feet (ft)			1	Enabled
1	Auto power off	0	Enabled	7	Test firing with autoflash	0	1/32
		1	Disabled			1	Full output
2	Modeling flash	0	Enabled (DOF preview butt.)	8	AF-assist beam firing	0	Enabled
		1	Enabled (Test firing butt.)			1	Disabled
		2	Enabled (with both buttons)			0	Enabled
3	FEB auto cancel	0	Enabled	9	Auto zoom for sensor size	0	Enabled
		1	Disabled			1	Disabled
		0	Enabled			0	60 minutes
4	FEB sequence	0	0 → - → +	10	Slave auto power off timer	1	10 minutes
		1	- → 0 → +			0	Within 8 hours
5	Flash metering mode	0	E-TTL II / E-TTL	11	Slave auto power off cancel	1	Within 1 hour
		1	TTL			0	Flash and external power
		2	External metering: Auto			1	External power source
		3	External metering: Manual	12	Flash recycle w/ exter. power	0	Speedlite button and dial
						13	Flash exposure metering set.

With the Speedlite 580EX II attached, you can set or cancel the Speedlite's Custom Functions (C.Fn-0 to C.Fn-13) with the EOS-1Ds



External Speedlite Control

Mark III and EOS-1D Mark III. You can also use the camera to set the 580EX II's flash mode, flash exposure compensation amount, FEB, flash sync, and other Speedlite functions. The EOS-1Ds Mark III also allows Wireless E-TTL settings to be made on the camera's menu.

**New Lightweight "Smart" Battery and Charger**

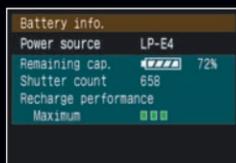
A revolutionary new battery powers the new Mark III series cameras. It's the powerful LP-E4 rechargeable battery pack—a 2300 mAh, Lithium-Ion battery. Compared to the NP-E3, it is much smaller (40% less volume) and lighter (46% lighter). It can also display the following on the camera's LCD menu: Power source type, remaining capacity 6-level icon, display in 1% increments, shots taken since battery charged, whether battery calibration is needed, and even when the battery has reached the end of its useful life.



Battery Pack LP-E4

## A Complete System, Constantly Improving

This information can be viewed with the [Battery info.] menu. The new system also consists of Battery



Battery Info.

Charger LC-E4 and AC Adapter Kit ACK-E4. An IC chip in the battery tracks battery information. Battery level is displayed upon communication with the chip. The remaining battery level is indicated by a battery icon indicating one of six levels on the top

### Battery Check

Icon	Level (%)
	100 - 70
	69 - 50
	49 - 20
	19 - 10
	9 - 1
	0

LCD panel, in the viewfinder (during metering), and on the menu screen [Battery info.]. If communication with the battery chip fails, a communication error message will appear. By selecting [OK], you can continue shooting. (The battery icon will be displayed as empty.)

After the battery undergoes 20 discharging and charging cycles, a message recommending battery calibration will appear on the bottom of the screen the next time the battery is installed. Calibration is performed with Battery Charger LC-E4 to find out the battery's capacity so that the remaining battery level can be indicated accurately. Each time the battery is recharged and used or discharged naturally, a slight discrepancy between the battery's remaining capacity information and the actual remaining capacity develops. With repeated recharge/discharge cycles, this discrepancy can become a large one. By performing calibration to discharge the entire battery and by then recharging the battery fully, accurate battery capacity information can be

obtained. Two battery packs can be attached to the LC-E4 charger. It takes about 120 min. to recharge one battery pack. The charger is compatible with



Battery Charger LC-E4 (Only for Battery Pack LP-E4)

the optional DC power adapters (12V/24V) so you can connect it to a car battery with the optional Car Battery Cable CB-570 to recharge the battery pack.

### New Wireless File Transmitter WFT-E2A

The WFT-E2A is a new, weather-resistant wireless file transmitter dedicated to the EOS-1Ds Mark III and EOS-1D Mark III. Its magnesium-alloy body is far smaller and lighter than the previous WFT-E1A unit (under 3 oz./80g), and draws power from the camera, so there's no extra battery to worry about. It transmits either wirelessly via 802.11b/g, or by wire directly to computers up to 1,000 feet away via standard Ethernet cables (100BASE-TX). For wireless transmission, the antenna is embedded within the WFT-E2A, and has a maximum working range of nearly 492 feet/150m,\* depending on environmental conditions and computer set-up.

Wireless transmission is up to 1.5x faster than before, due to faster in-camera operations, and Ethernet communication up to 3x faster (again, depending upon conditions and computer in use).

A key improvement is set-up, which is now guided with a wizard-type interface and is far simpler with Mac OS X and Windows Vista, XP, and 2000 computers. Three different methods of communication are possible:

- FTP mode—computer acts as an FTP server; files are transferred to a folder on computer's hard drive.
- PTP mode—enables two-way communication between camera and computer, with wireless (or Ethernet) Live View Function on computer's screen, and remote control of camera possible.
- HTTP mode—allows up to three separate computers to view camera's memory card using a standard web browser (Microsoft Internet Explorer™, Apple Safari™, etc.). Images can be selected from browser window and dragged onto computer's desktop or to a folder, which copies full file to computer. Remote firing of the camera is also possible.

With its new USB host capability, users can now plug compatible GPS devices directly into an attached WFT-E2A, and have GPS coordinates, altitude, and UTC time code added to each image's shooting data with the EOS-1Ds Mark III and EOS-1D Mark III. Compatible GPS units include several in Garmin's GPSMAP series, and Magellan eXplorist series, using NMEA 0183 v.2.0.1 output data standard or "Garmin protocol" (as of January 2008).



EOS-1D Mark III with Wireless Transmitter WFT-E2A

A USB-enabled portable hard drive can also be attached to the transmitter's USB port, and the photographer can either shoot directly to the hard drive (alone, or in addition to in-camera memory cards), or copy files to the hard drive with a menu command. The peace of mind of backing-up large quantities of files has never been easier. (Many 1.8-inch and 2.5-inch USB-enabled portable Hard Drives are compatible; 2.5-inch drives cannot be USB-bus powered.)

\* With no obstructions between the transmitting and receiving antennas, and no radio interference. With a large, high-performance antenna attached to the wireless LAN access point.

### Speedlite 580EX II

The Canon Speedlite 580EX II retains many features from the Speedlite 580EX (Max. GN 190, feet) while offering several major improvements. A new shoe assembly and added seals bring the new flash up to the dust- and water-resistance standards of the EOS-1D series.



The use of a metal foot, replacing engineering plastic, provides an improved contact structure and reduces the likelihood of flash failure during rough handling. Also new is a quick-lock system to replace the screw-type fastener at the bottom of the flash.

The 580EX II can be controlled from the EOS-1Ds Mark III and EOS-1D Mark III's LCD monitor, enabling on-camera setting of flash functions

and flash-related Custom Functions. The 580EX II now has an external metering sensor that provides new non-TTL autoflash possibilities. A new PC terminal enables easier off-camera shooting, even with third-party remote trigger systems. The new unit has a recycling time which is approximately 20% faster than that of the 580EX. In a welcome development, the characteristic buzzing noise emitted by flash units during recycling has been silenced. The battery cover has been strengthened and a locking mechanism has been added.

Other new accessories include the 2-foot long Off-Camera Shoe Cord OC-E3, and the Compact Battery Pack CP-E4—both weather-resistant as well.

### Speedlite 580EX II Dust- and Water-resistant Parts



### Original Data Security Kit

The Original Data Security Kit OSK-E3 is an optional accessory with the same original data verification features as the DVK-E2 plus new functions that expand its usefulness. With the EOS-1Ds Mark III and EOS-1D Mark III, shooting data (including any GPS data) can be verified as original and unaltered, as well as pixel data in the image itself.



Original Data Security Kit OSK-E3

Image data encryption/decryption (secured transmission) is also possible with the EOS-1Ds Mark III and EOS-1D Mark III. Designed for press applications, this feature will prevent the wrongful use of images intercepted at public events. With the OSK-E3, the images themselves are encrypted, not just the memory card. Encryption of images requires the use of a registered camera with the Original Data Security card installed. Decrypting image files and viewing or saving them requires a computer with OSK-E3 software and the card installed in the included card reader, and user authentication.

The kit consists of the Original Data Security card, the USB reader/writer, and the dedicated application programs (in the EOS Digital Solution Disk). The OSK-E3 can be used for data verification with images taken by the EOS-1Ds Mark III and EOS-1D Mark III, EOS-1Ds Mark II, EOS-1Ds, EOS-1D Mark II N, EOS-1D Mark II, 5D, 40D, 30D, 20D, and 20Da. The encryption feature can be used only with the EOS-1Ds Mark III and EOS-1D Mark III.

### Remote Control Options

The EOS-1Ds Mark III and EOS-1D Mark III are the complete solution to professional remote control photography. It can be connected via a USB 2.0 Hi-Speed cable and operated directly from a personal computer. With the WFT-E2A, a remote trigger can be used to fire the camera. With the WFT-E2A and a laptop computer, a photographer can use the Live View Function to shoot in real time from truly amazing locations. Anything and everything is now possible.

### EF 14mm f/2.8L II USM

New featuring 2 aspherical elements to correct distortion, this ultra-wide-angle lens has the shortest focal length in the L-series. The lens is the perfect match for the full-frame sensor camera such as the EOS-1Ds Mark III. Other aberrations, such as astigmatism are also corrected, resulting in superb image quality. The lens has a fixed, petal-type hood and a gelatin filter holder at the rear.



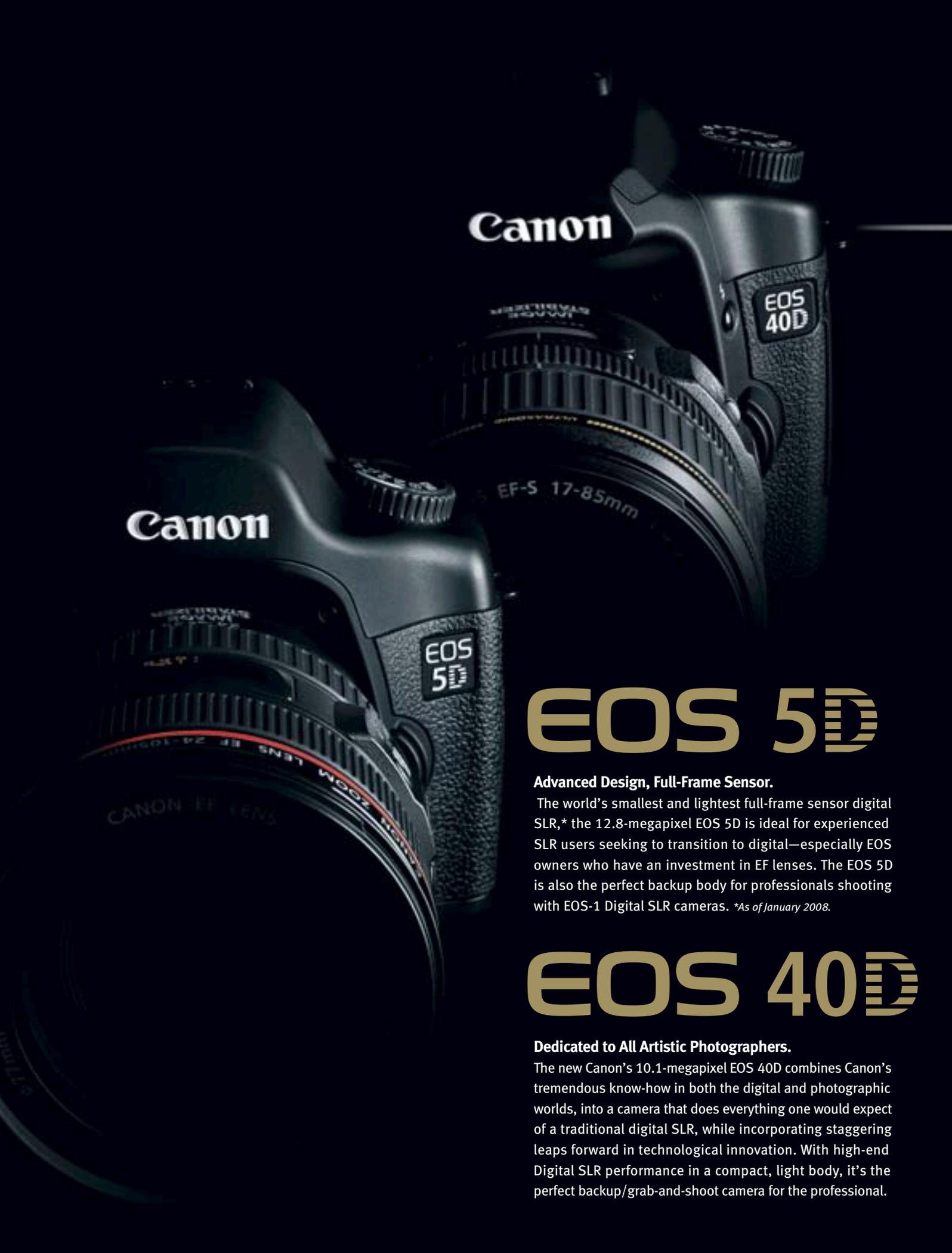
•f/4 •1/320 sec •ISO:100

### Direct Printing

To improve the camera's operation with Canon printers, Canon has made four improvements to PictBridge: faster data transfer, printing layout, printing effects, and cable disconnection after data transfer completion. The EOS-1Ds Mark III and EOS-1D Mark III support all of the above as well as RAW and sRAW image printing via PictBridge (must be RAW files taken with either the EOS-1Ds Mark III or EOS-1D Mark III). Any Canon or third-party PictBridge printer can be used to print images. With RAW/sRAW + JPEG images, the JPEG image is printed.

The [Red-eye 1] printing effect has been added to: [Off], [On], [Vivid], [NR], [Vivid+NR], and [Face brightener]. When [Red-eye 1] is used for a flash shot containing red eye, the red eye can be corrected before printing.

Direct printing to Canon's compact, 4 x 6-inch CP-type printers is also possible, taking full advantage of the options provided by PictBridge. This is an excellent option for providing quick "proof" prints to clients or subjects when shooting on-location.



Canon

EOS  
40D

Canon

EOS  
5D

# EOS 5D

## Advanced Design, Full-Frame Sensor.

The world's smallest and lightest full-frame sensor digital SLR,\* the 12.8-megapixel EOS 5D is ideal for experienced SLR users seeking to transition to digital—especially EOS owners who have an investment in EF lenses. The EOS 5D is also the perfect backup body for professionals shooting with EOS-1 Digital SLR cameras. \*As of January 2008.

# EOS 40D

## Dedicated to All Artistic Photographers.

The new Canon's 10.1-megapixel EOS 40D combines Canon's tremendous know-how in both the digital and photographic worlds, into a camera that does everything one would expect of a traditional digital SLR, while incorporating staggering leaps forward in technological innovation. With high-end Digital SLR performance in a compact, light body, it's the perfect backup/grab-and-shoot camera for the professional.



Camera: EOS 5D  
 Lens: EF 70-200mm f/4L IS USM  
 Picture Style: Landscape  
 ©2008 Anthony Edgeworth All Rights Reserved

# Capture Your Vision with Precision

LANDSCAPE

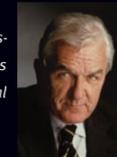


Full-frame CMOS Sensor (Actual Size)



## LANDSCAPE

“Scrambling up numerous windswept 50-foot dunes—sometimes in driving rain—to photograph the “Legendary Golf Links of Ireland,” I quickly came to appreciate the lighter weight and smaller size of the EOS 5D. Yet, despite its compact size, the 5D is truly a no-compromise camera. I enjoy the full-frame sensor and have resolution to spare. Paired with EF IS lenses, the 5D has been the ideal tool for me.”



— Anthony Edgeworth  
 Canon Explorer of Light

## The Canon CMOS Sensor Advantage

Proprietary Canon CMOS (Complementary Metal-Oxide Semiconductor) sensors—whether the full-frame 12.8-megapixel CMOS sensor in the EOS 40D or the APS-C size sensor in the EOS 30D—capture image data with exceptional clarity and efficiency. They incorporate sophisticated Canon on-chip noise reduction technology and ensure outstanding color rendition and image detail.

## Canon’s DIGIC Image Processors

Canon’s unique DIGIC Image Processors combine with Canon’s CMOS sensor technology to achieve superb performance.



DIGIC Image Processors’ outstanding power works with the multichannel sensor signal and high-speed buffer memory to deliver significantly improved camera response. Image quality is now even better, and power consumption has been further reduced.

## Big, Bright LCD Monitors

Both the EOS 5D and new EOS 40D have large LCD monitors for easy image review and menu operation.



EOS 40D

## Picture Style

Picture Style is to the digital photographer what changing film types was to the film shooter. Six different Picture Style settings give a variety of different “looks,” and each can be further fine-tuned by the user. Color Saturation, Color Tone, Contrast, and in-camera sharpening are all adjustable, over a broad range. Black & White images can also be recorded, using the Monochrome Picture Style.



## Picture Style



Standard

**Standard** – For crisp, clean images with good sharpness and vivid color reproduction—ideal for general shooting, requiring little to no post-processing.

**Portrait** – Color settings are warmed for pleasing skin tone reproduction. Slightly weaker sharpening than the

Standard mode yields more natural skin and hair detail.

**Landscape** – Color settings are optimized for deep blues and greens for more saturated skies and greenery. Slightly stronger sharpening than the Standard mode yields more crisply defined image elements, such as mountains, trees, and buildings.

**Neutral** – Provides natural color reproduction with no in-camera sharpening applied—a good choice for images that will be post-processed.

**Faithful** – Delivers the most accurate color rendition when shooting under 5200K lighting. No in-camera sharpening is applied.

**Monochrome** – Sharpness and contrast can be adjusted and users can mimic the effect of colored filters with traditional B&W film and/or add a colored tint to images as well.



# Unmatched Autofocus and Auto Exposure Accuracy

WEDDING



## WEDDING PHOTOJOURNALISM

“My first real experience with the EOS 5D was during a high-profile wedding. The quality of the images, even at high ISO like the one shown here, had me awestruck. Having switched from a completely different system, I was pleased by how intuitive the camera was to use. The EOS 5D is a tool that I trust; it enables me to create my art as an extension of my hand, eye and heart.”



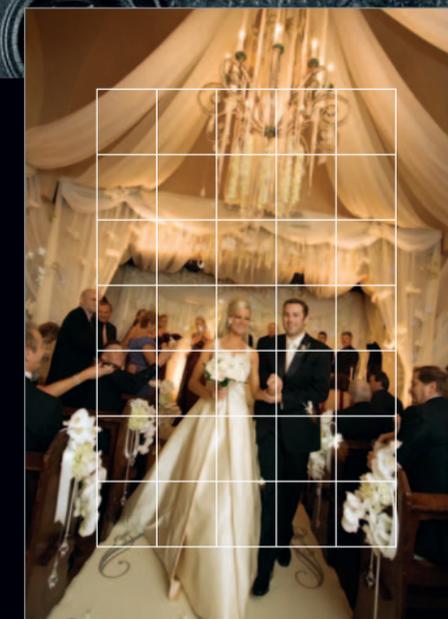
— Joe Buissink  
Canon Explorer of Light

## Fast, Precise AF Performance

Outstanding autofocus performance is a hallmark of EOS SLR cameras, and the EOS 5D is a superb example. Nine AF points make it easier to lock onto subjects, even if they are not centered in the composition. There are also six supplemental assist points around the center AF point, which can significantly improve focus tracking accuracy with moving subjects when using the AI Servo AF mode. Fast, accurate, predictive focusing makes the EOS 5D an excellent choice for moving subjects or any unpredictable situations.

## Superb Exposure Control

The EOS 5D offers the professional photographer a wide range of advanced metering options. The Evaluative Metering system uses data from the camera's 35-zone sensor as well as focusing point information. The onboard microcomputer uses a sophisticated series of calculations to ensure accurate exposure calculation in even the most challenging lighting situations. The EOS 5D also provides several additional metering options, including center-weighted, partial area, and spot metering. And regardless of the metering pattern in use, the camera's Quick Control Dial permits instant access to exposure compensation—without ever removing an eye from the viewfinder.



-  **35-zone Evaluative Metering**  
Analyzes light, based on an emphasis of the AF point in use, metering off the subject, wherever it might be in the composition.
-  **Partial Metering**  
Meters 9% of the viewfinder at the center area.
-  **Spot Metering**  
Reads approximately 3.5% at the center of the viewfinder area.
-  **Center-Weighted Metering**  
Reads the entire composition, yet places emphasis on the center of the image.



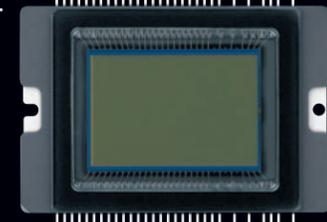
# DSLR Performance Distilled



6.5 fps Continuous Shooting Speed

## Superb Image Quality

The EOS 40D comprises a formidable combination of Canon technologies that deliver both operating speed and superb image quality. The newly developed APS-C size 10.1-megapixel Canon CMOS sensor uses the latest design and manufacturing processes to ensure noise-free, high-resolution image capture with an expanded usable ISO range. 14-bit A/D converters provide extended precision for superior tonal accuracy. The latest-generation DIGIC III Image Processor is faster and more powerful than ever, achieving even higher levels of performance. Also included is the Highlight Tone Priority mode, which expands the available range of capture in the highlights without compromising shadow detail or camera performance.



APS-C Size CMOS Sensor (Actual Size)

## High-Precision AF

The EOS 40D incorporates a newly developed 9-point area AF system that uses cross-type points with lenses f/5.6 or faster, providing more reliable focusing under difficult lighting conditions. Each of the 9 AF points uses this cross-type coverage, a first among Canon AF SLR cameras. In addition, the EOS 40D incorporates a diagonally mounted cross-type sensor at the center AF point that is sensitive to both vertical and horizontal lines, further improving focusing sensitivity and precision with wide-aperture lenses (f/2.8 or faster).

## Outstanding Performance

With a maximum continuous shooting speed of 6.5 fps, the EOS 40D is a fast, responsive DSLR. It can capture up to 75 consecutive full-resolution JPEG images or up to 17 RAW images in a single continuous burst.



## Live View Function with Wireless Capability

When the Live View Function is enabled, the huge 3.0-inch LCD monitor becomes the viewfinder. Any portion of the image can be magnified by 5x or 10x to aid in precise manual focusing. A new feature on the EOS 40D is the ability to instantly access autofocus during Live View Function, with one press of the AF-on button; Live View Function clears to enable AF, then returns as soon as the button is released. You can view with a grid overlay, perfect for keeping your subjects straight in your compositions. There are also two silent shooting options. Live View Function images can also be displayed on a TV or computer monitor. With Canon EOS Utility software installed on your computer, you can check focus and composition in real time... even manually focus and fire the camera remotely from the computer. Connection between the camera and computer can be via USB cable or wireless LAN (with the optional Wireless File Transmitter WFT-E3A).

# Great Images Start with Great Lenses



For many professional photographers, Canon EF series lenses alone are reason enough to choose the EOS System. A unique blend of the world's most advanced optics, microelectronics, and precision manufacturing technologies, EF lenses are perfected in Canon's laboratories and proven in the field. Whatever, whenever, and wherever you shoot, you can count on Canon EF lenses to deliver the finest imaging performance.



Image Stabilizer OFF

Image Stabilizer ON

## Optical Image Stabilizer

Canon's Optical Image Stabilizer technology makes handheld photography possible in more low-light situations than ever before. When camera shake occurs using normal lenses without Optical Image Stabilizer technology, the image projected on the image sensor also shakes, often resulting in blurred images at slower shutter speeds. With Canon Image Stabilized lenses, a special group of lens elements automatically shifts position, compensating for the movement and stabilizing the image. This compensatory effect adds the equivalent of up to four stops of light (depending upon the lens), expanding a photographer's handheld options dramatically.

*With optical IS in the lens, Canon can equip each IS lens with the stabilizer it needs for effective shake correction. Other systems are limited by how far they can move an image sensor, and as a result their stabilization is less effective as telephoto lengths get longer. Also, optical IS can be seen right in the viewfinder—impossible with some other stabilizer systems.*



Camera: EOS-1D Mark III  
Lens: EF 70-200mm f/2.8L IS USM  
©2008 Arthur Morris All Rights Reserved

## L-Series Lenses

Most highly regarded among professional photographers, Canon L-Series lenses are distinguished by a bold red ring around the outer barrel. What makes them truly distinctive, however, is their remarkable optical performance—the result of sophisticated Canon technologies such as Ultra-low Dispersion UD glass, Fluorite and aspherical elements, and Super Spectra Coating.

## Diffractive Optics

Innovative Canon diffractive optics (DO) technology results in high-performance lenses that are more compact than traditional refractive designs. Conventional glass lens elements disperse incoming light, causing chromatic aberration. The unique Canon multilayer diffractive elements are constructed by bonding diffraction gratings to the surfaces of two or more lens elements. These elements are then combined to form a single multilayer DO element. The DO element's dispersion characteristics are designed to cancel chromatic aberrations at various wavelengths when combined with conventional glass optics. This results in outstanding reductions in "color fringing"—chromatic aberration—rivaling that of L-series telephoto lenses. Canon DO technology is ideal for telephoto lens optics and makes possible significant size reduction while maintaining superb optical performance.

## Ultrasonic Motor

Canon developed the world's first lens-based Ultrasonic Motor (USM) to power the lens autofocus mechanism. Instead of large noisy drive trains powered by conventional motors, Canon USM lenses drive the lens using the fine electronic vibrations created by piezoelectric ceramic elements. The focusing action of the lens is fast and quiet, with virtually instantaneous stops and starts. USM lenses also draw minimal power from the camera, ensuring longer battery life. Canon makes two types of Ultrasonic Motor lenses. Ring-type USM lenses, found in large aperture and super-telephoto designs, permit manual focusing without first switching out of the auto mode. Micro USM designs bring the performance benefits of Canon USM technology to a wide assortment of affordable EF lenses.



## Specialty Lenses

Canon's EF lens system includes numerous special purpose lenses. Some examples:

**Fisheye**—Perfect for super wide-angle and special-effect photography, Canon's full-frame fisheye can focus as close as 8 inches (0.2m), and delivers exceptionally sharp images throughout its focus range. Up to three gel filters can be inserted into its built-in rear filter holder.



**Macro**—The EOS lens lineup has a number of options for true close-up and macro photography. With five macro lenses for precision, and three screw-on close-up lenses for convenience—in addition to Life-Size Converter EF and two Extension Tubes—Canon EF macro lenses and close-up accessories can uncover detail that is impossible for the unaided human eye to detect.



**TS-E**—Canon's Tilt/Shift lenses bring many of the advantages of technical view cameras to the EOS System. Tilt movements alter the angle of the plane of focus between the lens and film plane, making broad depth-of-field possible even at larger apertures. Shift movements slide the lens's optical axis along the film/sensor plane, enabling photographers to correct or alter perspective at almost any angle.



**EF-S Lenses**—Designed for Canon EOS Digital cameras with APS-C sized sensors (with a 1.6x conversion factor), Canon EF-S lenses take advantage of the sensor's smaller size to deliver optimized performance in compact, lightweight designs. The remarkably compact EF-S 17-85mm f/4-5.6 IS USM is a perfect example of this new technology. With a 35mm equivalent range of 27-136mm (when used on the EOS 40D) and its built-in Optical Image Stabilizer, it is an outstanding walk-around lens.



# Smarter Flash Photography

Integral to the EOS System, Canon Speedlites are the ideal flash light source for EOS SLR cameras. They are technologically advanced to provide perfect exposure and illumination with just about any subject. They are also highly adaptable, providing an endless variety of configurations and versatile shooting options. For professional flash photography, rely on Canon Speedlites to solve the most demanding lighting challenges.



Camera: EOS-1D Mark III  
Lens: EF 24-70mm f/2.8L USM  
©2008 Bruce Darr All Rights Reserved

E-TTL II additionally incorporates distance information from compatible EF lenses for the most precise flash exposure control. For example, it ignores sensor areas that report abnormally high levels, eliminating underexposure that can otherwise be caused by straight reflections. Correct flash exposure is ensured even when shooting a subject with a highly reflective object in the background, or if the subject itself is highly reflective. In addition, because distance information is used in calculating the flash output level, E-TTL II prevents over-exposure when photographers lock focus and recompose.

## E-TTL II

Canon E-TTL (Evaluative Through-The-Lens) flash exposure control uses a preflash fired after the shutter button has been fully depressed—but before the camera's reflex mirror goes up. The camera's evaluative metering sensor—the same sensor that reads ambient light—is used to compare the ambient light values with the light reflected from the subject by the preflash. The camera then calculates and stores the flash output required for optimum exposure of the main subject and the background.

## Wireless AutoFlash Control

Multiple Speedlites can obtain lighting effects not possible with a single flash. While previous multiple-flash setups required cumbersome wires to connect the camera and flashes, compatible EOS Speedlites can be used as wireless slaves. With a Speedlite 580EX II or Speedlite Transmitter ST-E2 attached to an EOS Digital SLR, an unlimited number of compatible EX-series Speedlites can operate as dedicated slave units. With nothing more than an EOS camera and a number of Speedlite flashes, the opportunities for creative lighting are endless.



## Macro Photography and Wireless Options

The Canon Speedlite flash system family includes versatile solutions for macro photography requirements: The **Macro Ring Lite MR-14EX** features twin circular flash tubes that can be fired at equal or uneven power with a ratio that can be varied over a six-stop range. One or more compatible EX-series Speedlites can be used as wireless slaves along with the MR-14EX. Incandescent focusing lamps and two types of modeling flash are provided to enable preview of lighting effects. The controller unit features an illuminated full-information LCD panel and accepts optional hi-capacity battery packs.

The **Macro Twin Lite MT-24EX** gives serious close-up, nature, and macro enthusiasts a different, directional option in macro lighting. The two separate flash heads can be swiveled around the lens and aimed independently. They can even be removed from their holder and mounted off-camera. Flash head output can also be independently adjusted with easy ratio control over a six-stop range. Like the MR-14EX, the Macro Twin Lite MT-24EX is fully E-TTL compatible with all EOS SLR bodies. Wireless E-TTL flash control is possible with one or more 580EX II, 580EX, 550EX, 430EX, or 420EX Speedlites configured as slave units.

The **Speedlite Transmitter ST-E2** is a dedicated controller that can be used with an unlimited number of compatible Speedlite slave flashes. The transmitter is effective over distances up to 33 ft. outdoors and 49.5 ft. indoors.

## Speedlite 580EX II

- Durable, weather-resistant construction with extensive rubber gaskets and seals.
- Metal flash “foot” with moving rubber cover for weather-resistance.
- New external flash sensor for non-TTL auto flash.
- PC socket for expanded off-camera versatility.
- Recycling about 20% faster than 580EX, and quieter.
- Same powerful Guide Number (max. 190-feet) and 24mm wide coverage (with 14mm wide panel) as previous 580EX.
- New accessory Off-Camera Shoe Cord OC-E3 and Compact Battery Pack CP-E4 form a weather-resistant system when combined with EOS-1Ds or 1D Mark III.
- Full compatibility with all EOS SLR cameras, and certain PowerShot models.



## Speedlite 430EX

- Significantly greater user control via new LCD panel on rear of flash.
- Wide-angle pull-down panel covers 14mm lens (on a full-frame camera).
- Powerful max. Guide number at 105mm setting (GN141—feet, at ISO 100).
- Auto conversion of flash zoom coverage with compatible digital SLR cameras.
- White balance info communicated instantly to compatible digital SLR cameras.
- Bounce upward to 90°; swivel right (to 90°) and left (180°).



## Speedlite Transmitter ST-E2

- Dedicated transmitter to control unlimited number of slave flashes.
- Speedlites 580EX II, 580EX, 550EX, 430EX, and 420EX can be controlled.
- Controls slave units up to 33 ft. outdoors and 49.5 ft. indoors.
- Ideal compact alternative for wireless E-TTL.



## Macro Twin Lite MT-24EX

- Attaches to all Canon EF macro lenses (EF 180mm f/3.5L requires Macro Lite Adapter 72C).
- Ideal for close-up lighting with a directional “look.”
- Heads can be swiveled or bounced and can be removed from mounting ring for added control.
- Powerful Guide Number of 78 (feet, at ISO 100), full E-TTL control and E-TTL features including FEL, Hi-speed sync, and Flash Exposure Bracketing.
- Incandescent focusing lamps, and two different types of 1-second modeling flash allow easy focusing and previewing of lighting effects.



## Macro Ring Lite MR-14EX

- Twin-tube ring lite designed for close-up photography with EF Macro lenses; Flash tubes can fire together or independently.
- Compatible with all EOS bodies.
- Supports E-TTL Wireless Autoflash in conjunction with one or more Compatible off-camera Slave Units.
- Incandescent focusing lamps and two forms of modeling flash permit preview of lighting effects.
- Illuminated LCD panel for easy flash settings in any lighting condition.



# Canon Solutions for Big, Bold, Spectacular Prints

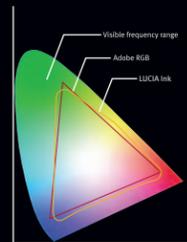


## imagePROGRAF

Photographers seeking to produce their own gallery-grade inkjet prints have had limited choices... until now. Understanding the demands of professional photographers—especially those that shoot with the EOS System—Canon has responded with the imagePROGRAF series printers, featuring impressive new technologies that bring unprecedented quality and performance to wide-format photo printing.

### LUCIA 12-Color Ink Set

The 12-color Canon LUCIA ink set delivers a substantially wider color gamut than competitive printers. The far greater range of available colors produces richer, more vibrant prints with significantly reduced metamerism (the perceived shift of color balance when viewing prints under different lighting conditions). The ink set includes three levels of gray—Black or Matte Black, Gray, and Photo Gray—to deliver black-and-white photo prints of exceptional tonal detail. The inks are pigment-based, ensuring long-lasting prints with excellent archival characteristics. imagePROGRAF printers ship with a starter set of all 12 inks.



Canon LUCIA Ink set vs. Adobe RGB Canon RC Photogloss L-50

### Photo-Lithographic User-Replaceable Dual Print Heads

An advanced head design uses two print heads—each with 15,360 nozzles—yielding over 30,000 nozzles. This not only makes possible extremely high output resolution but also ensures faster, more reliable printing. Photographers no longer need to choose between print speed and image quality because superior Canon print head technologies deliver both. The large number of nozzles also substantially increases print head life so that the printer requires less frequent maintenance. And because the print heads are user-replaceable, maintenance can be performed with minimal downtime and no costly service calls.



### Unsurpassed Output Media Selection

Canon imagePROGRAF printers include support for a wide range of papers and specialty output media, such as RC photo papers, transparent film, and fine art papers. Superior carriage design enables the printer to handle a wide range of media thicknesses and finishes. Moreover, the Media Configuration Tool supplied with the printer enables users to update the software, using a periodically published database, to accommodate new Canon and other popular media as they become available.



### 16-Bit Printing Support

While conventional inkjet printers are 8-bit-per-channel devices, requiring a conversion from 16 bits somewhere along the workflow, the imagePROGRAF printers provide advanced direct output support for 16-bit files. A supplied plug-in enables printing of 16-bit RAW images directly from Digital Photo Professional software. Also included is an export module for direct printing of 16-bit files from Adobe® Photoshop®. These features provide the photographer with the first true wide-dynamic-range workflow option from capture to output. Images are reproduced with smoother tonal gradations for greater photorealism. Dynamic-range-related problems, such as posterization and banding, are virtually eliminated.



### Automated Black Ink Cartridge Switching

The ink set includes Black and Matte Black, only one of which will be used depending on output media selection. While other printers require the user to perform an inconvenient and wasteful manual operation to flush unused ink and switch cartridges, the imagePROGRAF printers automate the process. With both Black ink cartridges loaded at all times, the switchover is fast and wasteless, performed with a simple push of a button.

## imagePROGRAF iPF9100

### Large format Printer for Professional and Commercial Materials.

The iPF9100 is a 60-inch wide graphic art model incorporating LUCIA 12-color pigment ink. It is committed to the productivity and efficiency required in business applications such as professional labs while maintaining high quality large prints. The large operation LCD panel makes workflow significantly easier to see and to operate from entering print data to producing output. The other outstanding features: a built-in 80GB hard disk drive to buffer and store print jobs, and ink supply is via a tubing system with a sub-ink tank to help seamless ink tank replacement. A sub-ink tank is provided as an ink storage buffer tank, ensuring stable ink supply.



## imagePROGRAF iPF8100

### Two Black and Two Gray Inks Create Richer Blacks.

Capable of prints up to 44-inch wide, the iPF8100 uses Canon's 12-color LUCIA pigment ink system, extending the color gamut far beyond what can be seen on a screen. Black or Matte Black, plus two gray inks create black and white photographs that are nothing short of inspiring. Canon's FINE (Full-photolithography Inkjet Nozzle Engineering) print heads ensure that ink is delivered to the paper with speed, generous coverage, and unprecedented accuracy. With a built-in 80GB hard disk drive, the iPF8100 exceeds lab-quality printing, right in the studio.



## imagePROGRAF iPF6100

### A Better Large-Format Printing Solution.

The imagePROGRAF iPF6100 accommodates 24-inch wide media and features the new LUCIA ink system, further enhancing the wide color gamut, smooth gradations, and great speed for which imagePROGRAF printers are renowned. The LUCIA pigment-based inks provide improved scratch resistance for even better print longevity. Reformulated Gray and Photo Gray inks plus new processing optimization ensure superior tonal gradation with less visible grain and reduced bronzing. A built-in Automatic Color Stability Control System ensures exceptional output consistency over the life of the printer and among multiple printers.



## imagePROGRAF iPF5100

### The Next-Generation Professional Photo Printer.

Understanding the demands of professional photographers—especially those that shoot with the EOS System—Canon has responded with the imagePROGRAF iPF5100, featuring impressive new technologies that bring unprecedented quality and performance to 17-inch wide photo printing. The LUCIA 12-color ink set delivers a substantially wider color gamut than competitive printers. Three levels of Gray—Black or Matte Black, Gray, and Photo Gray—deliver black-and-white photo prints of exceptional richness and tonal detail. The improved pigment-based ink formulations provide superior print longevity with reduced graininess and bronzing.



# Fast, Spectacular, Affordable Desktop Photo Printing



Combining unparalleled Canon expertise in photography, photocopying, and printing technologies, PIXMA Pro photo printers are redefining output quality, performance, and convenience. Employing extraordinary ink set and printhead technologies, sophisticated drivers with advanced color controls, professional software support, and compatibility with a broad selection of papers and specialty media, Canon PIXMA Pro photo printers are meeting, and even surpassing, the expectations of the most demanding professional photographers.

## FINE Print Head Technology

Canon's high-precision FINE (Full-photolithography Inkjet Nozzle Engineering) print heads each have thousands of nozzles designed to release microscopic ink droplets as small as 1-picoliter in a single pass, resulting in fast, high-resolution printing. Capable of plotting thousands of ink droplets each second, the high-density nozzle pitch produces sharper detail and less grain. Canon's print heads are engineered using a photo-lithographic process that produces incredibly high-precision output and equally incredible prints.



## 10-Color Pigment Ink System

Featuring the same LUCIA pigment ink found in the imagePROGRAF printers, the PIXMA Pro9500's 10-color pigment ink set produces professional-quality, archival prints. The Gray, Black and Matte Black ink produce monochrome photographs of unrivaled quality on fine art or glossy paper. Gray ink reduces grain, banding and metamerism and virtually eliminates color shifts. Unlike Photo Black ink that increases contrast, Matte Black ink increases black density on fine art paper while maintaining detail in shadows. With 10 individual ink tanks, users can replace a single color, reducing waste and saving money. Since the Pro9500's ink is less sensitive to light and environmental factors, prints have incredibly smooth gradations and are archival.



## ChromaLife100 Ink System

The PIXMA Pro9000 features the highly refined dye-based Canon ChromaLife100 ink system, which uses Red and Green inks in addition to Cyan, Magenta, Yellow, Photo Cyan, Photo Magenta, and Photo Black. This advanced 8-color system reproduces a much wider color gamut than conventional inkjet printers, delivering a color range that rivals color slide film. The dye-based ink set further ensures vividly brilliant colors and a high-luster surface finish that enhances the beauty of printed images.



## Long-Lasting Photos

Canon ChromaLife100 ink technology also delivers prints that withstand the test of time. PIXMA Pro prints will resist fading for up to 100 years when kept in albums. When combined with genuine Canon photo media, prints typically exhibit 30-year light fastness and 10-year gas fastness.\*

\*Based on accelerated dark storage testing by Canon under controlled temperature, humidity and gas conditions, simulating storage in an album with plastic sleeves. Canon cannot guarantee the longevity of the print; results may vary depending on printed image, drying time, display/storage conditions and environmental factors. See [www.consumer.usa.canon.com/chromalife100](http://www.consumer.usa.canon.com/chromalife100) for additional details.

## Advanced Camera Direct Printing

Photographers who shoot with Canon EOS Digital SLR cameras can take advantage of extraordinary capabilities when sending images directly to PIXMA Pro printers (via USB 2.0 Hi-Speed interface). For example, direct support for Canon Picture Style technology enables advanced print output control, either faithfully preserving original intent or dialing in specific image enhancements. Special output options, including useful layouts, can be selected on the camera—no need for a computer.

## Enhanced PictBridge Functions

PictBridge compatible digital cameras and printers make it easy to print pictures on the spot without a personal computer.



EXIF Data Single Image Print

35-image Contact Sheet

The Canon EOS System takes PictBridge direct printing to the next level, providing an unprecedented amount of control over image optimization and output options. When you connect the latest-generation Canon EOS Digital SLR cameras to compatible Canon photo printers, such as PIXMA Pro printers, you can, for example, choose automatic image adjustment using EXIF information or make adjustments manually to create more vivid prints. You'll have more paper size and formatting options, such as index sheets with shooting information. You can even correct automatically for back-lighting and remove red-eye from your flash shots.

## Versatile, Convenient Paper Handling

The PIXMA Pro printers feature dual paper paths: standard top-loading and manual front-loading. This advanced design accommodates a wide range of media types. The manual front feeder provides a straight paper path, enabling the use of large, non-standard paper sizes as well as thicker fine art and specialty media.

## PIXMA Pro9500

### LUCIA 10-Color Pigment Ink Set Creates Rich Color Photos.

For the highest quality color and black-and-white photographs, up to 13" x 19", one need look no further than the PIXMA Pro9500. With the LUCIA 10-color pigment ink system, there's no other printer out there that can print both stunning color and smooth black-and-white photographs like the Pro9500. The inclusion of Gray, Matte and Photo Black pigment tanks, combined with 3 pl droplets ensure the smoothest gradations possible and the results are prints that will astound.



## PIXMA Pro9000

### Professional Quality Photos for Big Ideas.

Capable of quickly printing lab-quality prints up to 13" x 19", Canon's PIXMA Pro9000 raises the bar thanks to its combination of speed and versatility. Its FINE print head generates a maximum resolution of 4800 x 2400 dpi and ChromaLife100 dye-based inks create long lasting, beautiful photos. Canon's Easy-PhotoPrint Pro software, including Photoshop and Digital Photo Professional (V.2.1 and higher) plug-ins, combine with a new printer driver for advanced color control, ensuring accurate prints from the start.



# The Power of Wireless Connectivity



EOS-1D Mark III with Wireless File Transmitter WFT-E2A

## Wireless File Transmitter WFT-E3A

Designed for exclusive use with the EOS 40D camera, the WFT-E3A provides advanced functions and capabilities, including both wireless (802.11b or g) and wired (100Mbps Ethernet) LAN connectivity with easy wizard-based network configuration. A new, powerful transmitter design with high-performance internal antenna delivers extended wireless range—up to 492 feet (150m)\* from the computer or a network access point. You can connect a compatible third-party GPS device via USB, allowing location information to be added to each image's EXIF data. Or, you can connect a compatible USB v.2.0 hard drive to the transmitter and shoot directly to the drive. (Note: The WFT-E1A and WFT-E2A Wireless Transmitter units are not compatible with the EOS 40D.)

The WFT-E3A transmitter's ideal shape—similar to a battery grip—integrates perfectly with the EOS 40D and provides a second set of the most often used camera controls for vertical shooting. (The controls remain functional even when there is no battery in the transmitter.) FTP, PTP, and HTTP communications protocols are supported so that files can be transferred using a number of methods—for example, using a Web browser.



EOS 40D with Wireless File Transmitter WFT-E3A

## Wireless File Transmitter WFT-E2A

Canon's all Wireless File Transmitter WFT-E2A is a vast improvement over our previous Wireless Transmitter WFT-E1A. It sports many new features that the professional photographer will find indispensable. While it retains the best features of the WFT-E1A such as an Ethernet (hard wired) connection and 802.11 b and g, it now is much easier to set up and use. Utilizing the onboard connection wizard, the WFT-E2A can connect in three ways: In HTTP mode, up to three users can securely log in to the camera to browse and

download selected images with a standard web browser. PTP connectivity allows the user to easily connect a single camera to a computer with advanced remote-control capabilities. Of course we still offer FTP transfer, with a simplified connection interface, for secure transmission to a computer on your network or over the internet. USB 2.0 Hi-Speed host capability allows GPS data from many popular receivers to be embedded in EXIF data as well as allowing the photographer to shoot directly or back up image data to many commercially available external USB hard drives. The WFT-E2A is much smaller and lighter

than its predecessor, allowing full access to the camera's external sockets while maintaining the weather resistance and durability of the camera body and offering faster communication between the camera and the transmitter. It has a small built-in antenna capable of wireless communication at distances up to 492 feet (150m)\*. It is powered by the camera's battery, reducing the extra equipment the photographer needs to carry.

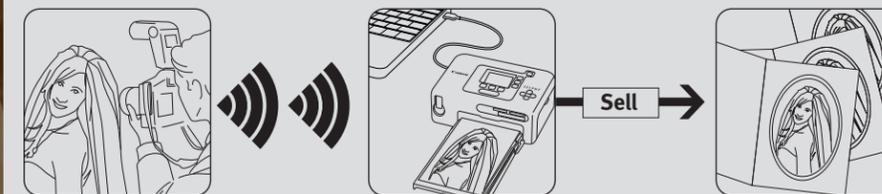


Camera: EOS-1D Mark III  
Lens: EF 70-200mm f/2.8L IS USM  
©2008 Terrell Lloyd. All Rights Reserved

\* With no obstructions between the transmitting and receiving antennas, and no radio interference. With a large, high-performance antenna attached to the wireless LAN access point.  
† Maximum distance requires access point with separate antenna; wireless transmission range dependent upon environmental factors and type of receiver in use.



## Wedding Photography



Wedding photographers can have one less thing to worry about with a Canon Wireless Transmitter attached to their camera. Free to roam about the ceremony and reception, photographers can feel confident knowing their images are being transferred to their computer as they shoot. They won't run out of memory cards or lose important

shots while offsite downloading images to the computer. They can shoot either vertically or horizontally, transferring their images without worry of getting tangled up in wires. Results can be shared and orders can be taken on the spot, from clients and guests; showing photographs in print or on screen.

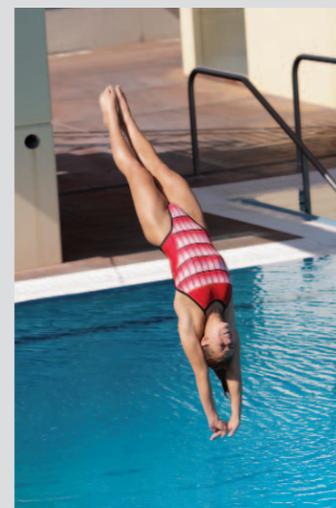


## Commercial Studio Photography



Studio photographers can transfer images automatically, either immediately or after the shooting session. In immediate mode, the art director, client, and assistants can be working, even off-site, giving feedback during the session for greater spontaneity and efficiency. In operation, images transfer to the computer via

wireless or wired LAN. Wirelessly, Canon's transmitters allow a generous distance range from camera to computer. In wired mode, a port on the side of the unit connects, with an appropriate Ethernet cable, to a computer or other Ethernet device.



## Sports Photojournalism



Wireless file transfer has already found a home with sports photographers and photojournalists, who benefit from the speed and ease of transferring images while they shoot. By transmitting images to a local computer, an assistant manages and forwards image files immediately. This way, the photographer can meet any deadline and

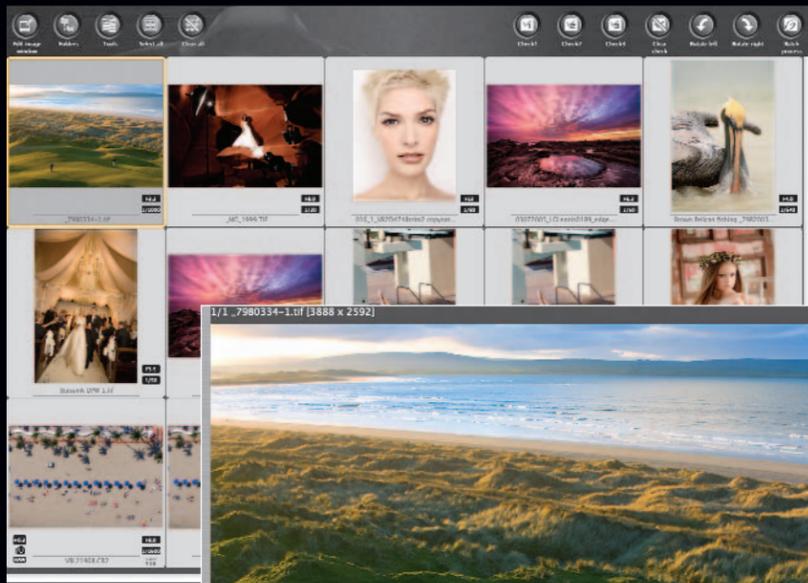
can even get feedback on images while shooting. And, there's always a back-up image, since the same file is recorded on a memory card in the camera. Whether capturing the winning dive, or the medal ceremony, the photographer will never miss a minute of the action.

Canon USA does not provide support for configuring TCP/IP, encryption or FTP on your computer and/or network. You should consult with your IT specialist or computer systems integrator to configure your computer and/or network for these services.

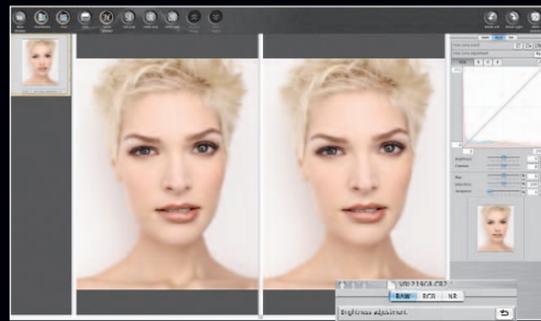
# Digital Solutions for Professionals



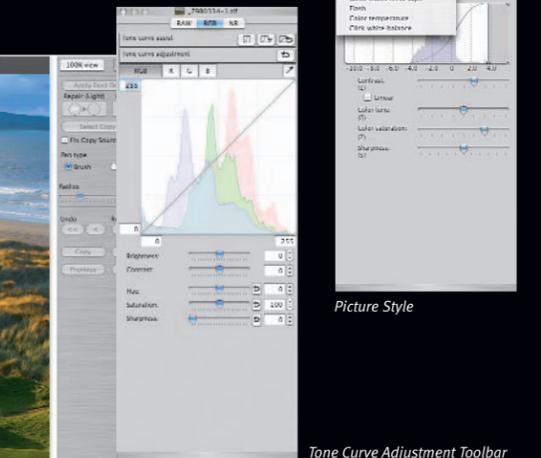
Professional Software Tools—Digital cameras capture images as digital data. Digital photography, therefore, benefits from computer software designed to enhance capture, processing, and output. The Canon EOS System embraces a wide range of powerful software tools that provide advanced functions to aid the professional photographer.



Large Thumbnails View



Comparison View



Picture Style

Tone Curve Adjustment Toolbar

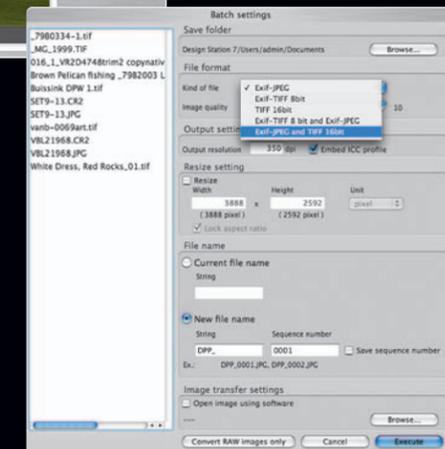


Stamp Tool



## Digital Photo Professional

Canon Digital Photo Professional is a RAW image processing application featuring a newly designed, dedicated data processing engine. It streamlines the workload of professional digital photographers by enabling high-speed RAW image processing and preview, with support for sRGB, Adobe RGB, and Wide Gamut RGB color spaces. It provides excellent support for color-managed workflows, and provides numerous controls for exposure and color settings. It also includes a cropping tool, a navigation tool, CMYK printer simulation, batch conversion, multiple image download, and image transfer to other photo applications.

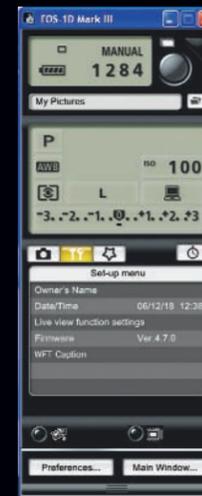


Batch Processing Window

## Live View Function

The EOS-1Ds Mark III, EOS-1D Mark III, and EOS 40D all offer Live View Function, which enables the image at the sensor to be displayed on a computer monitor in real time. With Canon EOS Utility software installed on the computer, the user can check and adjust focus and composition on the computer. The camera can even be fired remotely from the computer. Connection between the camera and computer can be via USB cable or, with the optional Wireless File Transmitter WFT-E2A or WFT-E3A, via wireless LAN. The wireless option enables all Live View capabilities over a distance up to 492 feet (150m).\*

Live View Function is a powerful problem-solver that addresses all those situations in which it would be awkward, difficult, or impossible to shoot conventionally by looking through the viewfinder. Requested by numerous studio and remote sports photographers, the Canon Remote Live View Function enables EVF (electronic viewfinder) shooting via a wired or wirelessly connected computer. While viewing the real-time output from the camera's imaging sensor on a computer monitor, the photographer can perform numerous functions—such as check and adjust the focus using 5x and 10x magnification; check for moiré and false color; and verify composition, lighting, and exposure—before remotely releasing the shutter via the computer.



## New Original Data Security Kit OSK-E3

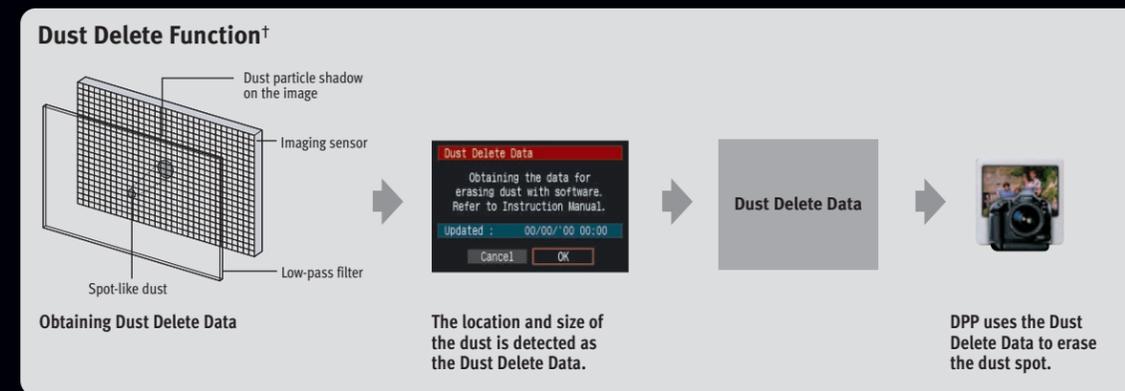
Canon's advanced data verification hardware/software kit consists of a USB card reader/writer, a dedicated Original Data Security Card, and software to be installed on a Windows computer. The system can verify the originality and integrity of image data. It can also identify specific data elements (image pixels, EXIF text, GPS info, etc.) that have been altered.



A new feature in this version is encryption capability.\*\* Photographers can now encrypt their image files to prevent unauthorized viewing or wireless theft. Encrypted images can be viewed only on personal computers on which the necessary OSK-E3 decoding engine has been installed.

## Dust Delete Function

By photographing a plain nearby white subject at infinity focus, the photographer can acquire data identifying the position of any dust particles on the sensor surface. The data are appended to the image file and can be used by Digital Photo Professional software to automatically erase dust spots. This unique system can be a tremendous time saver, especially for professional photographers who must shoot (and change lenses) in dusty environments. It greatly reduces time spent at the computer touching up images.

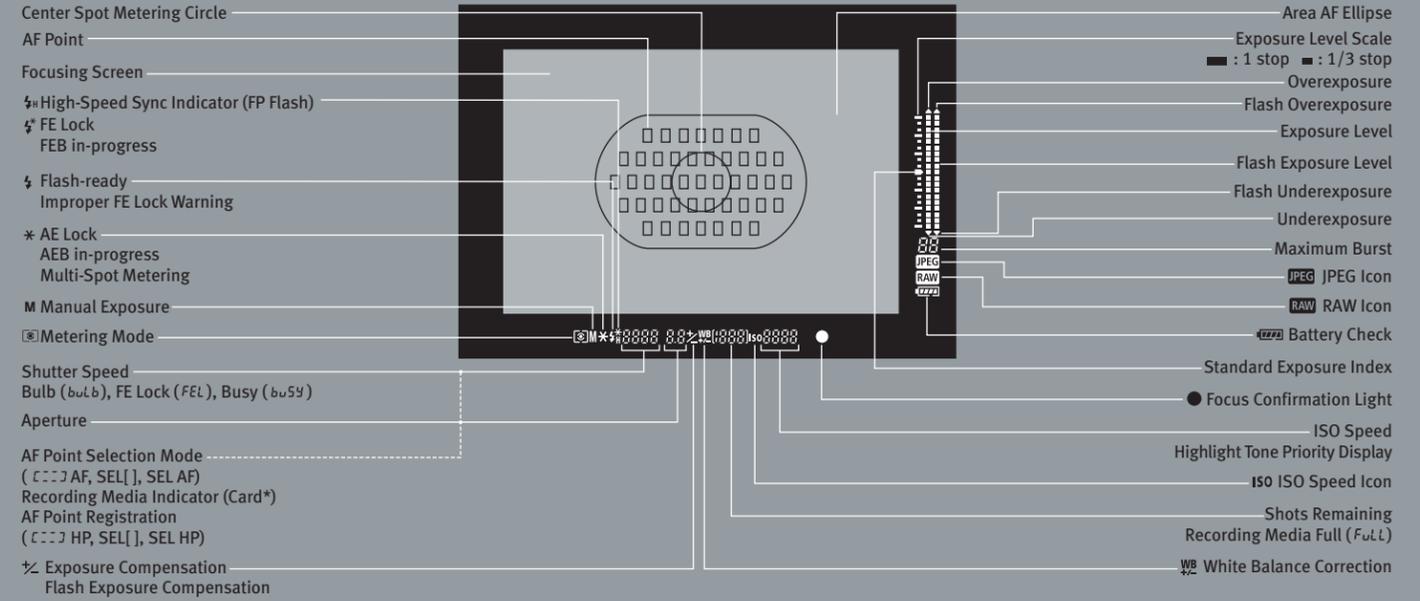


\* With no obstructions between the transmitting and receiving antennas, and no radio interference. With a large, high-performance antenna attached to the wireless LAN access point.  
\*\* Encryption possible with EOS-1Ds Mark III and EOS-1D Mark III cameras only. † Not available on EOS 5D

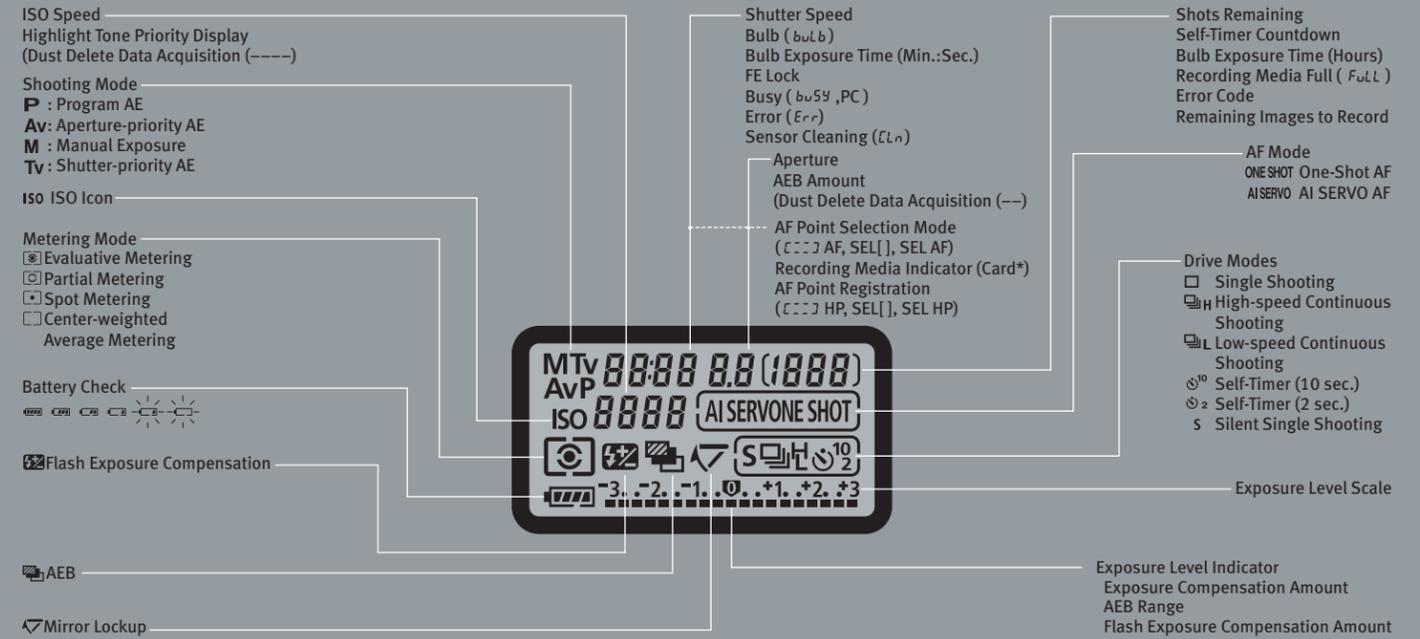
# Nomenclature for EOS-1Ds Mark III



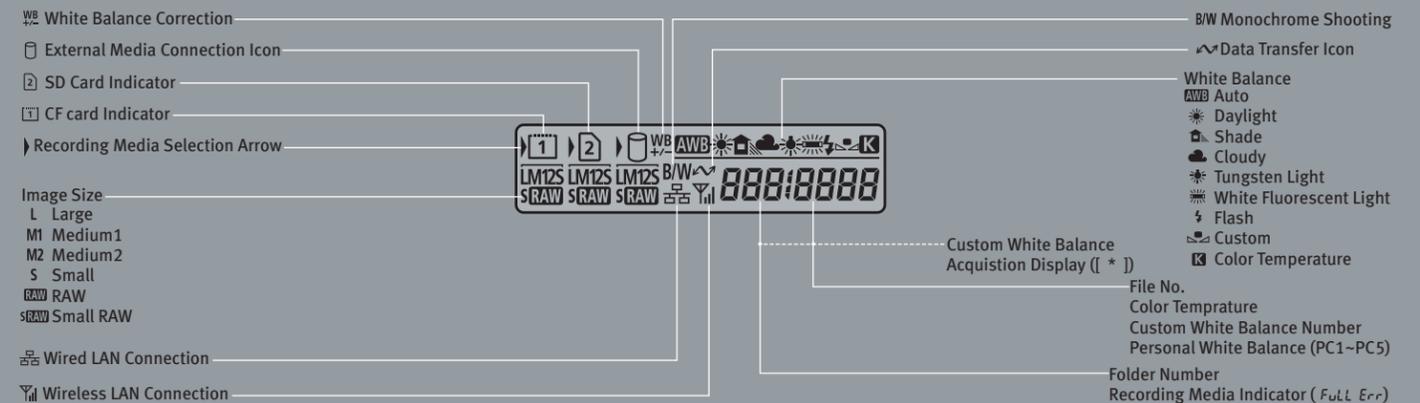
## Viewfinder Information



## Top LCD Panel Information



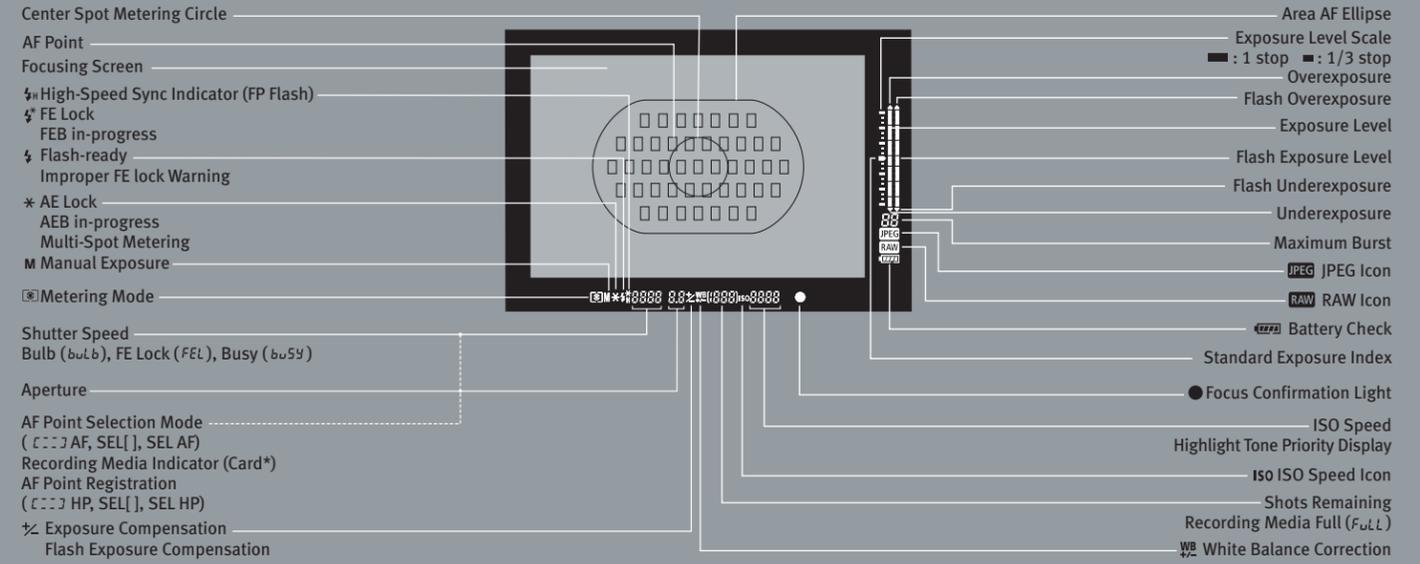
## Rear LCD Panel Information



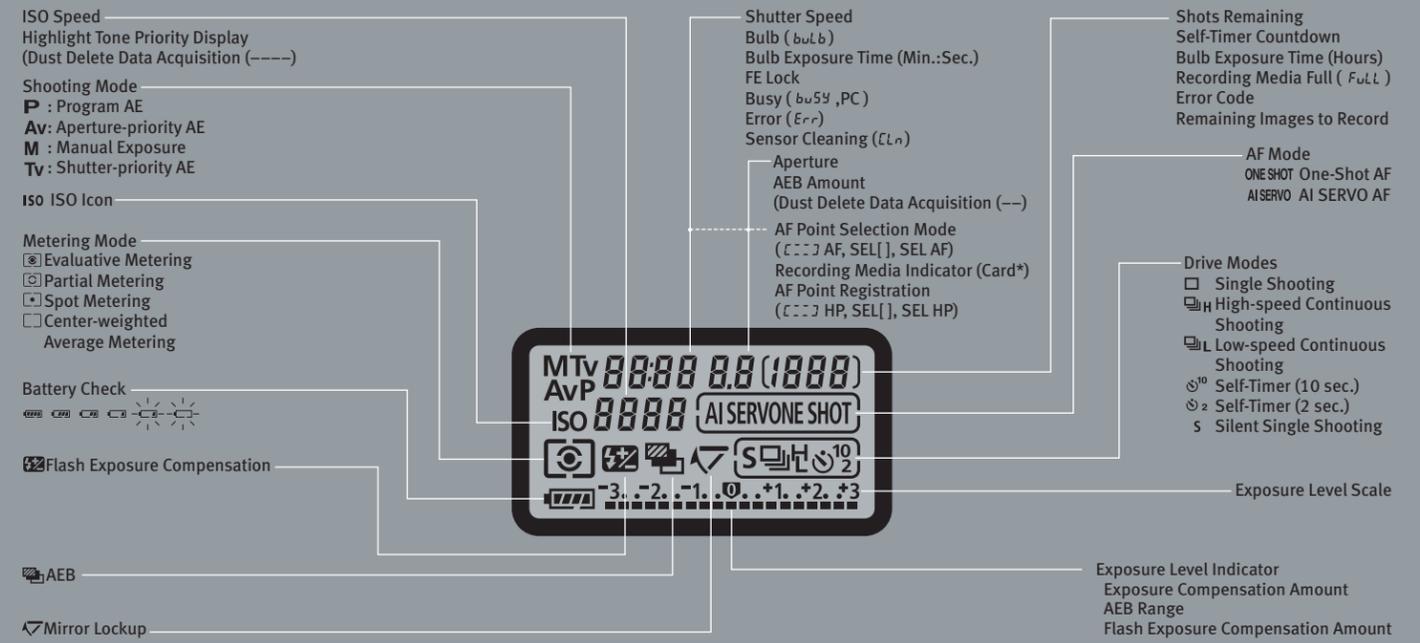
## Nomenclature for EOS-1D Mark III



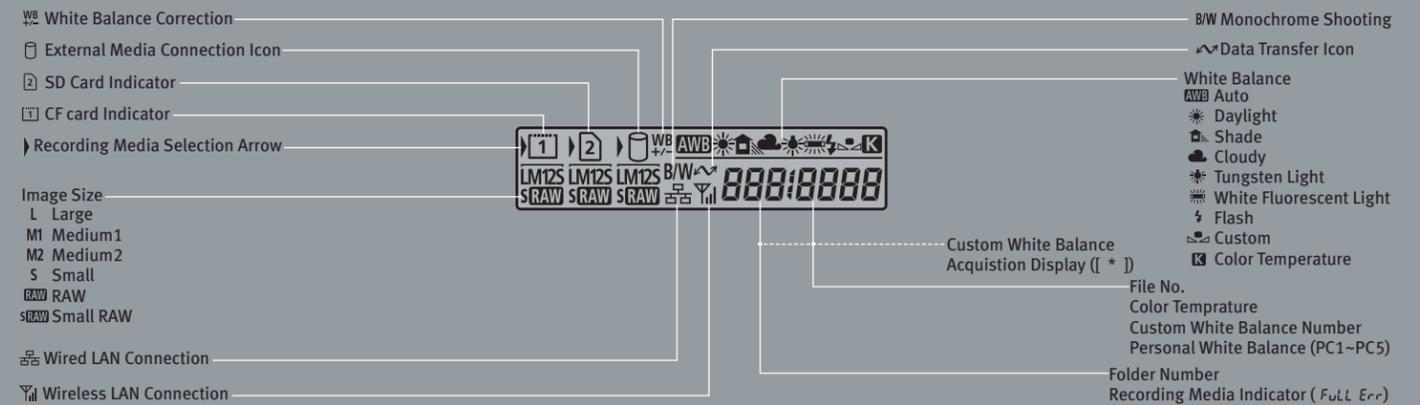
### Viewfinder Information



### Top LCD Panel Information



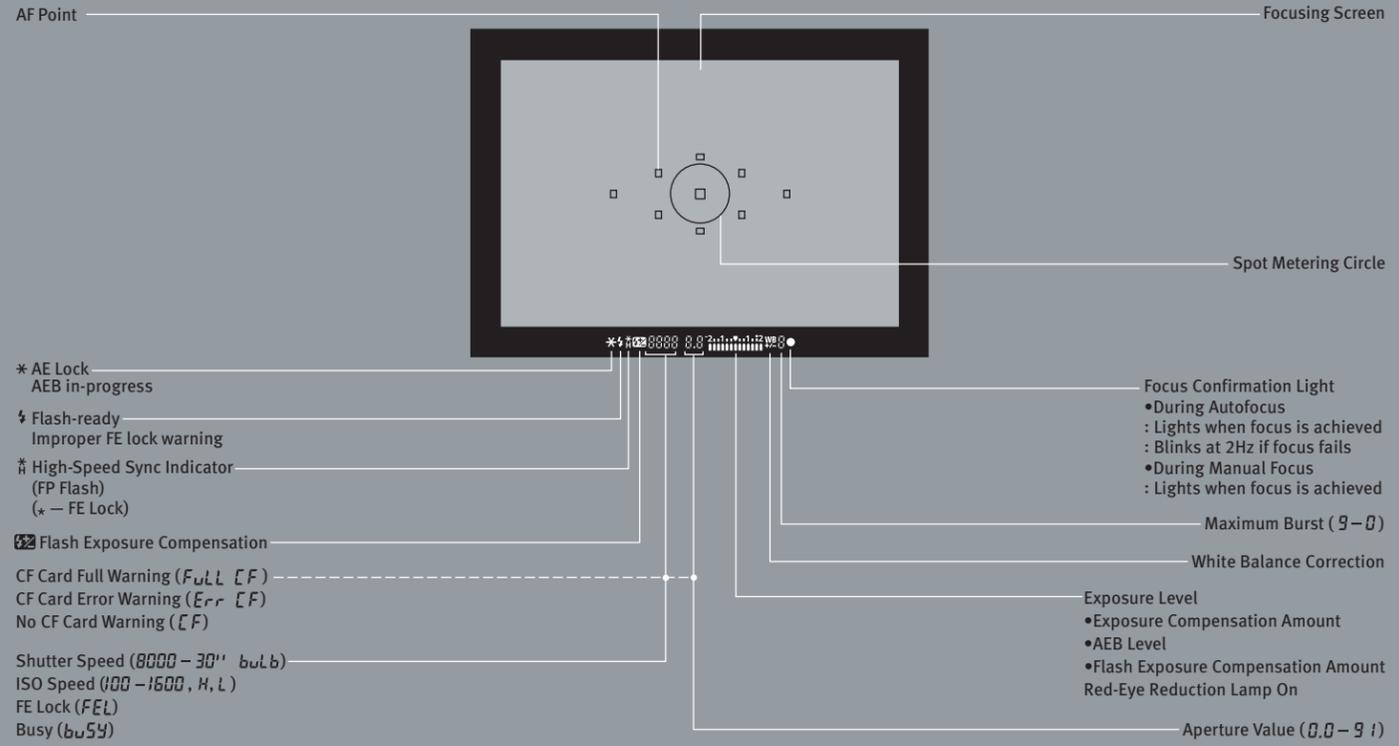
### Rear LCD Panel Information



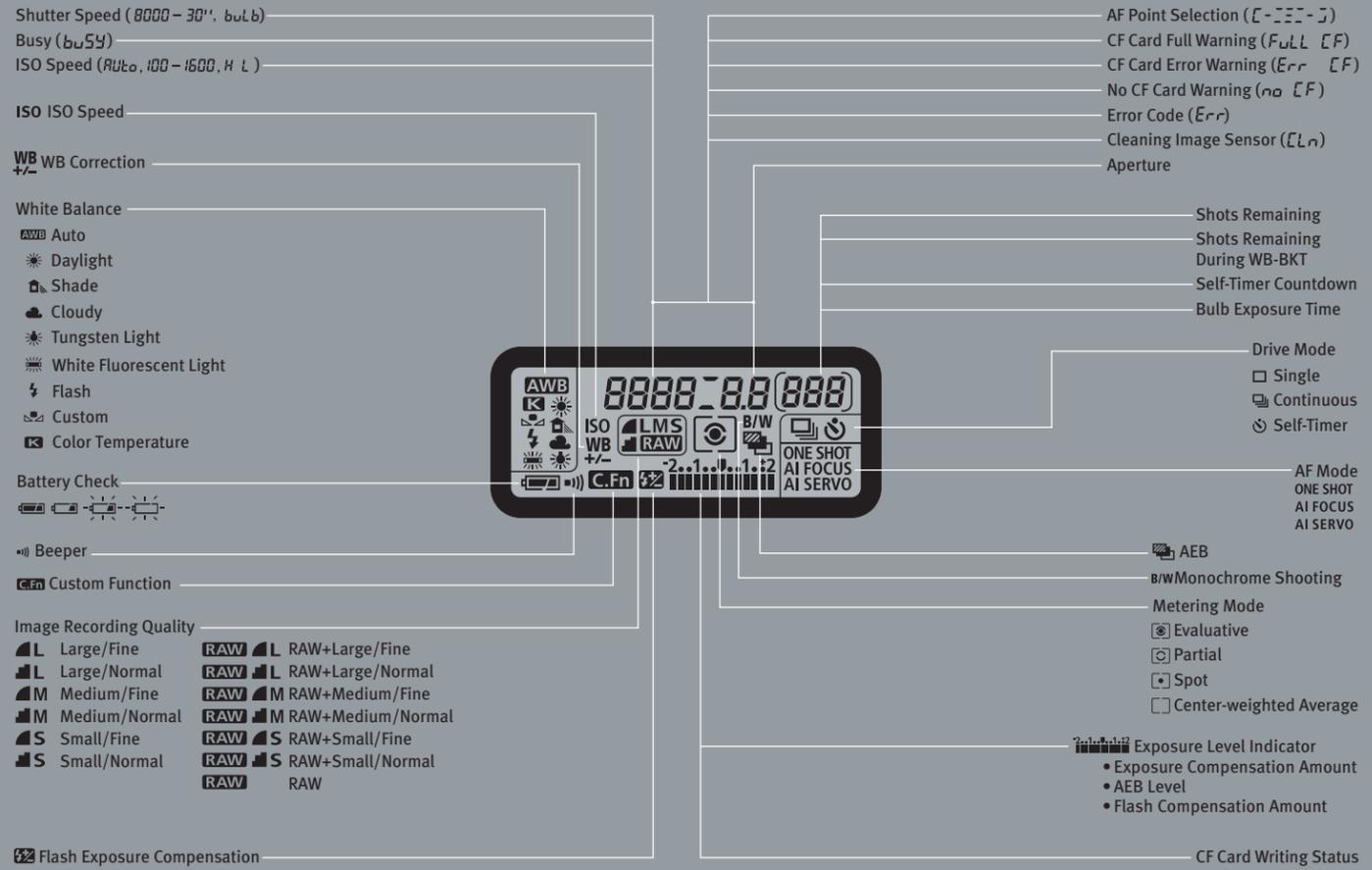
# Nomenclature for EOS 5D



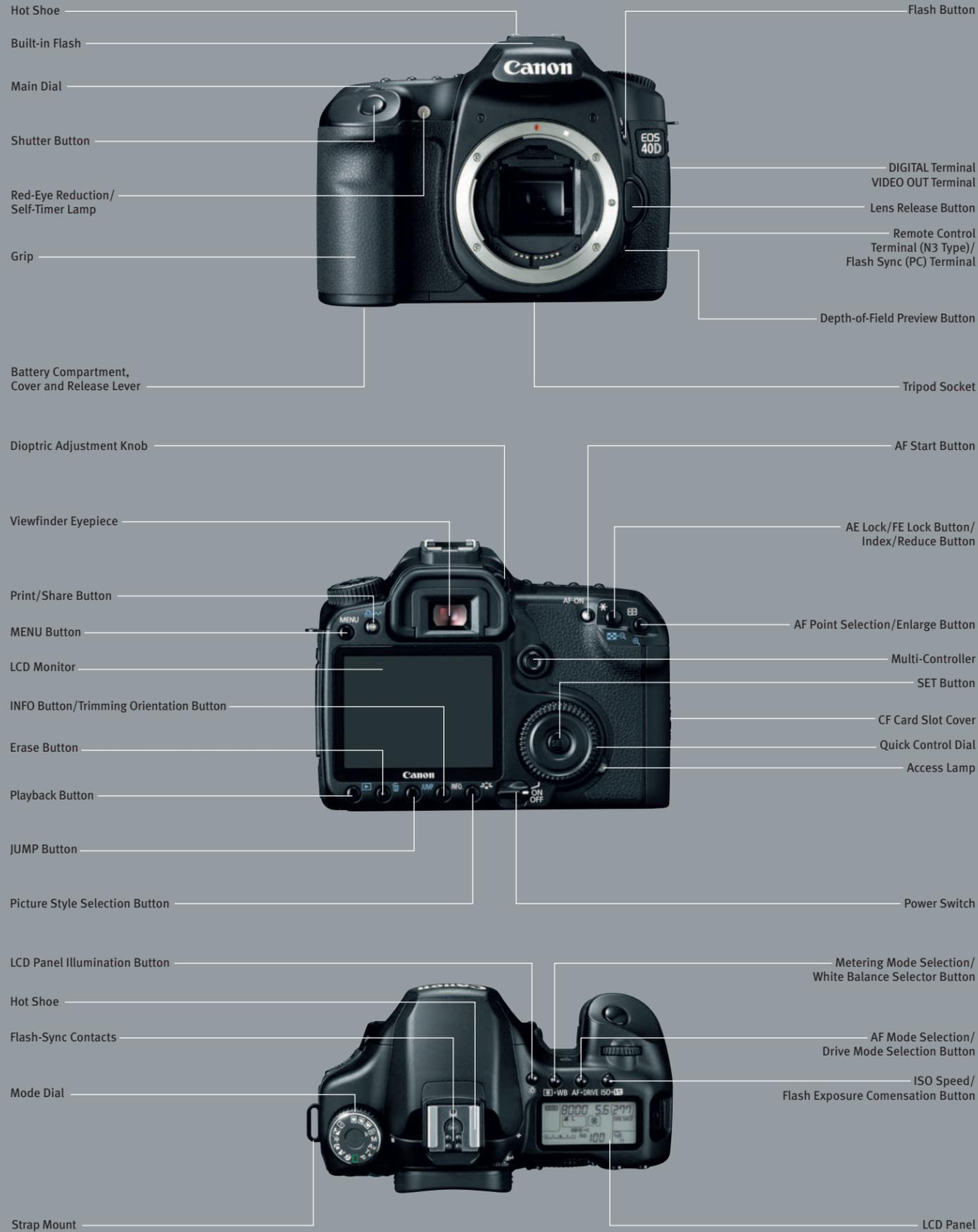
## Viewfinder Information



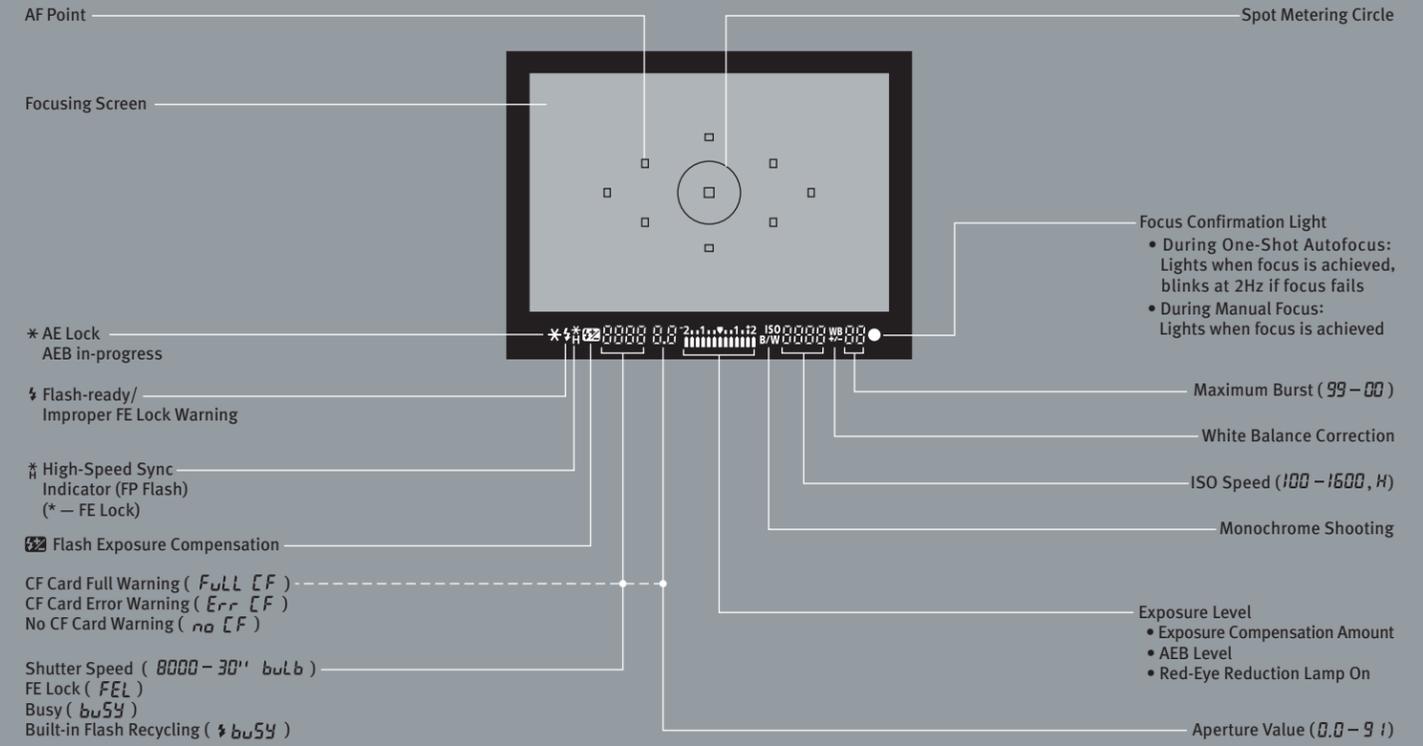
## Top LCD Panel Information



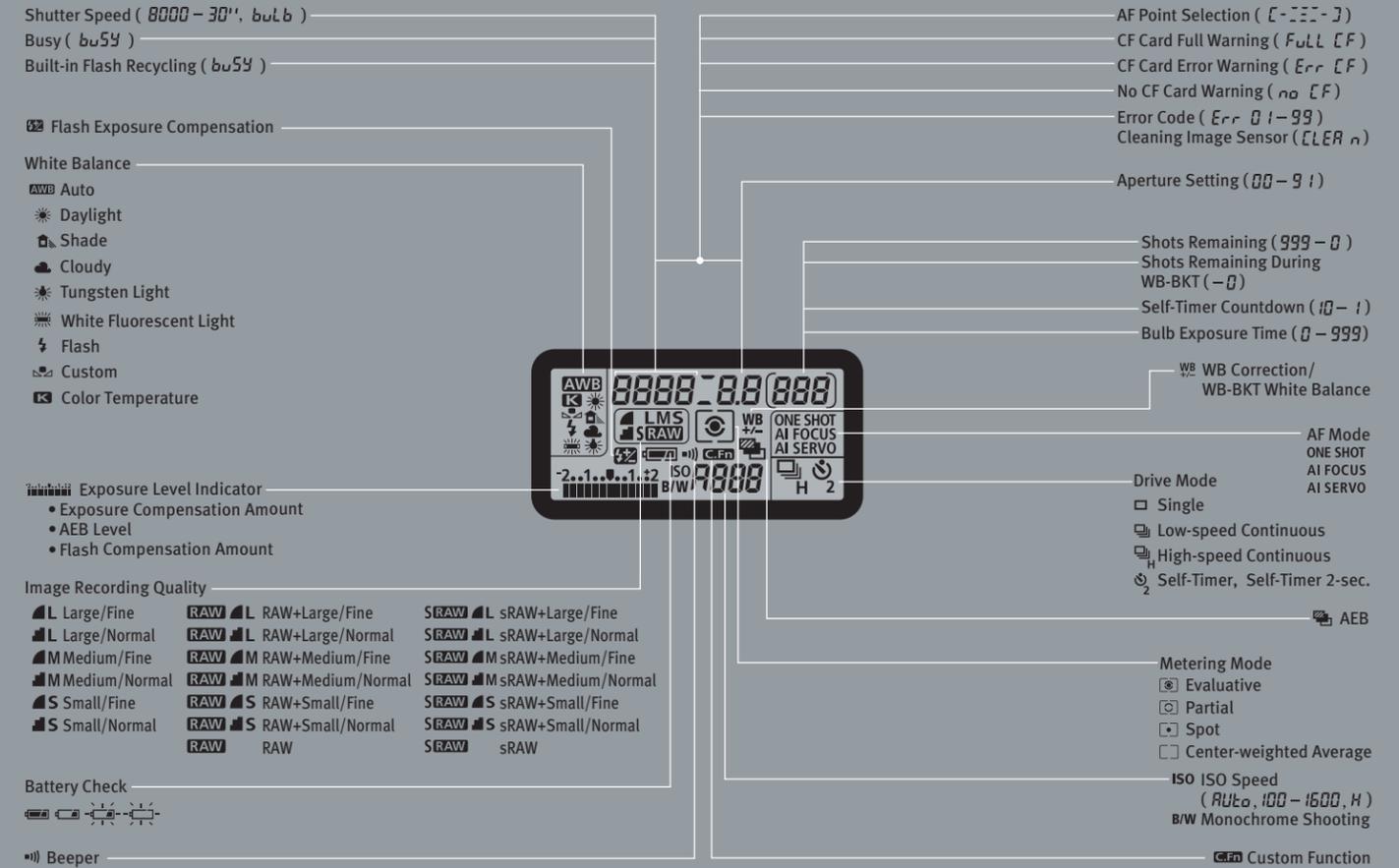
# Nomenclature for EOS 40D



## Viewfinder Information



## Top LCD Panel Information



# EOS-1Ds Mark III and EOS-1D Mark III Custom Function Chart

Custom Function	Function Description	No.	Setting
<b>C.Fn I: Exposure</b>			
C. Fn-01	Exposure level increments	0	1/3-stop increments
		1	Speeds/apertures 1-stop increments, Exposure compensation in 1/3-stops
		2	1/2-stop increments
C. Fn-02	ISO speed setting increments	0	ISO set in 1/3-stop increments
		1	ISO set in 1-stop increments
C. Fn-03	Set ISO speed range	-	Disable (camera ISO range 100-3200)
		-	Enable (apply user-registered available ISO range)
		Register	Set highest ISO (1-stop increments) up to "H" Set lowest ISO (1-stop increments), "L" thru 1600(1Ds)/3200(1D) Return
		0	Return
C. Fn-04	Bracketing Auto Cancel	0	On (AEB cancels if camera turned off, etc.)
		1	Off (AEB remains in effect unless flash turned on)
C. Fn-05	Bracketing sequence	0	0 → - → +
		1	- → 0 → +
		2	+ → 0 → -
C. Fn-06	Number of bracketing shots	0	3 shots
		1	2 shots
		2	5 shots
		3	7 shots
C. Fn-07	Spot metering link to AF point	0	Disable (spot metering always at center)
		1	Enable (spot metering at manually selected AF pt.)
C. Fn-08	Safety Shift	1	Enable (Tv/Av modes)
		2	Enable (ISO speed shifts, in P, Tv, Av modes)
C. Fn-09	Select usable shooting modes	-	Disable (all exposure modes available) Enable (only modes registered are selectable)
		Register	M P Tv BULB Av Apply
		0	Apply
C. Fn-10	Select usable metering modes	-	Disable (all metering patterns available) Enable (only metering modes registered are selectable)
		Register	☉ ☐ ☉ ☐ Apply
		0	Apply
C. Fn-11	Metering pattern in Manual mode	0	Specified metering mode on camera's LCD panel
		1	Evaluative metering only in M mode
		2	Partial metering only in M mode
		3	Spot metering only in M mode
		4	Center-weighted average only in M mode
C. Fn-12	Set shutter speed range	-	Disable (apply user-registered range)
		Register	Highest speed: 250-8000 Lowest speed: 30"-60 Apply
		0	Apply
C. Fn-13	Set aperture value range	-	Disable (use lens's full aperture range) Enable (apply user-registered aperture range)
		Register	Min. aperture (Max. f.): 1.4-91 Max. aperture (Min. f.): 1.0-64 Apply
		0	Apply
C. Fn-14	Apply shooting/Metering mode	-	Disable (no switching to registered settings) Enable (Press "*" button to switch settings)
		Register	With AE lock button (AF on) With AE lock button (AF off)
C. Fn-15	Flash sync. speed in Av mode	0	Auto (shutter speed set based on ambient light)
		1	1/250 sec.(1Ds)/1/300 sec.(1D) fixed
<b>C.Fn II: Image/Flash exp/Display</b>			
C. Fn-01	Long exp. noise reduction	0	Off
		1	Auto (camera decides whether to apply reduction)
		2	On (noise reduction applied; 1 sec. and longer only)
C. Fn-02	High ISO speed noise reduction	0	Off
		1	On
C. Fn-03	Highlight tone priority	0	Disable
C. Fn-04	E-TTL II flash metering	0	Evaluative flash metering
		1	Average flash metering over all 63 metering zones
C. Fn-05	Shutter curtain sync.	0	1st-curtain synchronization
		1	2nd-curtain synchronization (EOS Speedlite only)
C. Fn-06	Flash firing	0	Enable
		1	Disable - AF assist beam continues to operate
C. Fn-07	Viewfinder info. during exp.	0	Disable
		1	Enable (viewfinder info visible during bursts)
C. Fn-08	LCD panel illumination during Bulb	0	Off
		1	On during Bulb
C. Fn-09	INFO button when shooting	0	LCD monitor Displays camera settings
		1	LCD monitor Displays shooting functions
<b>C.Fn III: Autofocus/Drive</b>			
C. Fn-01	USM lens electronic MF	0	MF possible after One-shot AF completed
		1	Disable after One-shot AF
		2	Disable completely in AF mode
C. Fn-02	AI Servo tracking sensitivity	-	Slow: -2, -1, 0, +1, +2: Fast
C. Fn-03	AI Servo 1st/2nd image priority	0	AF priority/2nd shot onward - Tracking priority
		1	AF priority/2nd shot onward - Drive speed priority
		2	Release/2nd shot onward - Drive speed priority
C. Fn-04	AI Servo AF tracking method	0	Main focus point priority
		1	Continuous AF track priority (ignores closer objects)
C. Fn-05	Lens drive when AF impossible	0	Focus search on
		1	Focus search off
C. Fn-06	Lens AF stop button function (select Canon Super-telephoto IS lenses only)	0	AF stop
		1	AF start
		2	AE lock

Custom Function	Function Description	No.	Setting
C. Fn-06	(Cont.)	3	AF point:M → Auto/Auto → ctr
		4	ONE SHOT ↔ AI Servo
		5	IS start
		6	Switch to registered AF point
		0	Disable (no adjustment for front or back-focus)
		1	Adjust all by same amount Forward: -20 ..... 0 ..... +20 Backward
C. Fn-07	AF Microadjustment	0	Disable (one AF point only when manually selected)
		2	Adjust by lens
C. Fn-08	AF expansion with selected pt	0	Disable (one AF point only when manually selected)
		1	Enable (expand by adding left/right Assist pts)
		2	Enable (expand by adding ring of six surrounding Assist pts)
C. Fn-09	Selectable AF point	0	19 points
		1	Inner 9 points
		2	Outer 9 points
C. Fn-10	Switch to registered AF point	0	Disable
		1	Enable
C. Fn-11	AF point auto selection	0	☉ direct: disable / ☐ enable
		1	☉ direct: disable / ☐ :disable (auto AF select mode impossible to access)
		2	☉ direct: enable / ☐ :enable
C. Fn-12	AF point display during focus	0	On (red illumination on)
		1	Off
		2	On (lights momentarily when focus achieved)
C. Fn-13	AF point brightness	0	Normal
		1	Brighter
C. Fn-14	AF-assist beam firing	0	Enable (Speedlite's AF assist beam fires normally)
		1	Disable
C. Fn-15	Mirror lockup	0	Disable
		1	Enable (mirror lowers after each shot)
		2	Enable: Down with SET (mirror remains up until SET pressed)
C. Fn-16	Continuous shooting speed	-	Disable (shoots at default fps rates) Enable (applies user-registered fps rates)
		Register	High speed: 5,4,3,2 fps(1Ds)/10-2 fps(1D) Per shot Low speed: 1,2,3,4 fps(1Ds)/1,3-9 fps(1D) Per shot Apply
		0	Apply
		1	Apply
C. Fn-17	Limit continuous shot count	-	Disable
		Register	Enable Limited shots: 99-2 Apply
		0	Apply
<b>C.Fn IV: Operation/Others</b>			
C. Fn-01	Shutter button/AF-ON button	0	Metering + AF start (at both buttons)
		1	Metering + AF start/AF stop
		2	Metering start/Meter + AF start (no AF at shutter button)
		3	AE lock/Metering + AF start
		4	Metering + AF start/disable (AF-on button)
		0	Disable
		1	Enable (reverse role of AEL and AF-on buttons)
C. Fn-02	AF-ON/AE lock button switch	0	Exposure comp/Aperture
		1	AF point selection (instant AF point access with rear dial)
		2	ISO speed (instant ISO access with rear dial)
C. Fn-03	Quick Control Dial in meter	0	Normal (disabled)
		1	White balance
		2	Image size
		3	ISO Speed
		4	Picture Style
		5	Record func. + media/folder
		6	Menu display
7	Image playback		
C. Fn-04	SET button when shooting	0	Tv= / Av=
		1	Tv= / Av= (reverse functions in M mode for top/rear dials)
		0	Normal
		1	Reserve direction
		0	Disable
		1	Enable (possible to set aperture on body w/o lens)
		0	Rear LCD panel
C. Fn-05	Tv/Av setting for Manual exp.	0	Normal
		1	Enable
		2	Enable
C. Fn-06	Dial direction during Tv/Av	0	Normal
		1	Reserve direction
		0	Disable
C. Fn-07	Av setting without lens	0	Disable
		1	Enable (possible to set aperture on body w/o lens)
		0	Disable
C. Fn-08	WB + media/image size setting	0	Rear LCD panel
		1	LCD monitor (displayed when FUNC button pressed)
		0	Protect (hold button in: sound rec.)
C. Fn-09	Button function	0	Normal (enable)
		1	Sound rec. (press & release; protect possible via menu only)
		0	Normal (enable)
C. Fn-10	Button function when $\odot$ cofs	0	Normal (enable)
		1	Disable $\odot$ , Multi-controller
		0	EC-C IV
C. Fn-11	Focusing screen	1	EC-A, B, C, C II, C III, D, H, I, L
		2	EC-S
		3	EC-N, R
C. Fn-12	Timer length for timer	-	Disable (use camera's built-in settings) Enable (apply user-registered changes)
		Register	6 sec. timer: 0-6-59 sec., 1-60 min. 16 sec. timer: 0-16-59 sec., 1-60 min. Time after release: 0-2-59 sec., 1-60 min. Apply
		0	Apply
		1	Apply
C. Fn-13	Shortened release time lag	0	Disable (standard 55ms "time lag")
		1	Enable (as low as 40ms, depending upon lens aperture)
C. Fn-14	Add aspect ratio information	0	Off
		1	Aspect ratio 6:6
		2	Aspect ratio 3:4
		3	Aspect ratio 4:5
		4	Aspect ratio 6:7
		5	Aspect ratio 10:12
C. Fn-15	Add original decision data	0	Off
		1	On (used by optional Original Data Security Kit)
		0	Disable (LCD auto adjust)
C. Fn-16	Live View Function exposure simulation	0	Disable (LCD auto adjust)
		1	Enable (LCD simulates actual exposure level)

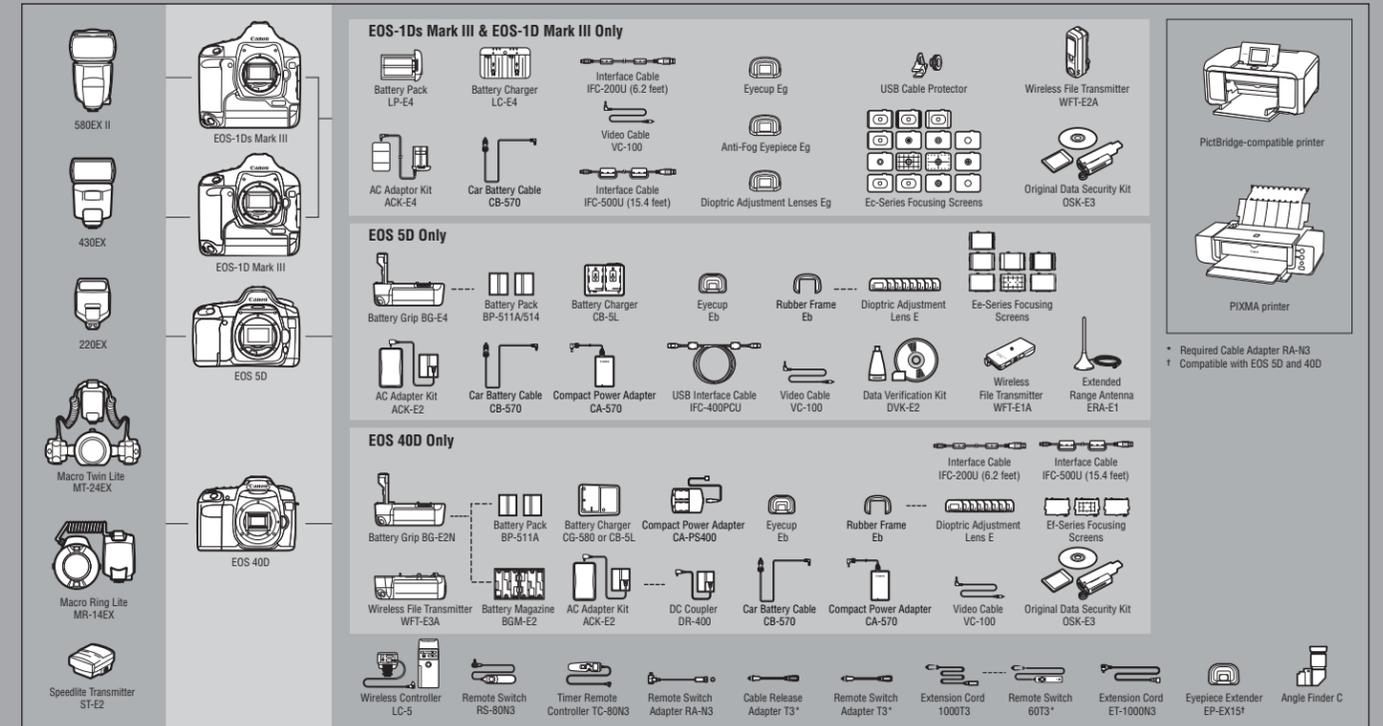
# EOS 5D Custom Function Chart

Custom Function	Function Description	No.	Setting
C. Fn-01	SET function when shooting	0	Default (No Function)
		1	Change quality
		2	Change Picture Style
		3	Menu display
		4	Image replay
C. Fn-02	Long exposure noise reduction	0	Off
		1	Auto
		2	On
C. Fn-03	Flash sync. speed in Av mode	0	Auto
		1	1/200 sec. (Fixed)
C. Fn-04	Shutter/AE lock button	0	AF/AE lock
		1	AE lock/AF
		2	AF/AE lock, no AE lock
C. Fn-05	AF-assist beam	0	Emits
		1	Does not emit
		0	1/3-stop
C. Fn-06	Exposure level increments	1	1/2-stop
		0	Off
C. Fn-07	Flash firing	0	Fires
		1	Does not fire
C. Fn-08	ISO expansion	0	Off
		1	On
C. Fn-09	Bracket sequence/Auto cancel	0	0, - , + / Enable
		1	0, - , + / Disable
		2	-0, + / Enable
		3	-0, + / Disable
C. Fn-10	Superimposed display	0	On
		1	Off
C. Fn-11	Menu button display position	0	Previous (top if power off)
		1	Previous
C. Fn-12	Mirror lockup	2	Top
		0	Disable
C. Fn-13	AF point selection method	1	Enable
		0	Normal
C. Fn-14	E-TTL II	1	Multi-controller direct
		2	Quick Control Dial direct
C. Fn-15	Shutter curtain sync.	0	Evaluative
		1	Average
C. Fn-16	Safety shift in Av or Tv	0	1st-curtain sync.
		1	2nd-curtain sync.
C. Fn-17	AF point activation area	0	Standard
		1	Expanded
C. Fn-18	LCD display → Return to shoot	0	With Shutter Button only
		1	Also with * etc.
C. Fn-19	Lens AF stop button function	0	AF stop
		1	AF start
		2	AE lock while metering
		3	AF point: Manual → Auto/AutoCenter →
		4	ONE SHOT ↔ AI SERVO
C. Fn-20	Add original decision data	0	Off
		1	On
C. Fn-00	Focusing Screen	0	E-A
		1	E-D
		2	E-S

# EOS 40D Custom Function Chart

Custom Function	Function Description	No.	Setting
<b>C.Fn I: Exposure</b>			
C. Fn-01	Exposure level increments	0	1/3-stop
		1	1/2-stop
		0	1/3-stop
C. Fn-02	ISO speed setting increments	1	1-stop
		0	Off
C. Fn-03	ISO expansion	1	On
C. Fn-04	Bracketing auto cancel	0	On
C. Fn-05	Bracketing sequence	1	Off
		0	0, - , + - , 0, +
C. Fn-06	Safety Shift	0	Disable
		1	Enable (Tv/Av)
C. Fn-07	Flash sync. Speed in Av mode	0	Auto
		1	1/250 sec. (fixed)
<b>C.Fn II: Image</b>			
C. Fn-01	Long exp. noise reduction	0	Off
		1	Auto
		2	On
C. Fn-02	High ISO speed/noise reduction	0	Off
		1	On
C. Fn-03	Highlight tone priority	0	Disable
<b>C.Fn III: Autofocus/Drive</b>			
C. Fn-01	Lens drive when AF impossible	0	Focus search on
		1	Focus search off
		0	AF stop
C. Fn-02	Lens AF stop button	1	AF start
		2	AE lock
		3	AF point M → Auto/Auto → ctr
		4	ONE SHOT ↔ AI SERVO
		5	IS start
C. Fn-03	AF point selection method	0	Normal
		1	Multi-controller direct
C. Fn-04	Superimposed display	2	Quick Control Dial direct
		0	On
C. Fn-05	AF-assist beam firing	1	Off
		0	Enable
C. Fn-06	AF during Live View function shooting	1	Disable
		0	Only external flash emits
C. Fn-07	Mirror lockup	0	Disable
		1	Enable
<b>C.Fn IV: Operation/Others</b>			
C. Fn-01	Shutter button/AF-ON button	0	Metering + AF start
		1	Metering → AF start/AF stop
		2	Metering start/Metering + AF start
		3	AE lock/Metering + AF start
		4	Metering + AF start/Disable
C. Fn-02	AF-ON/AE lock button switch	0	Disable
		1	Enable
C. Fn-03	SET button when shooting	0	Normal (disabled)
		1	Change quality
		2	Change Picture Style
C. Fn-04	Dial direction during Tv/Av	3	Menu display
		4	Image replay
		0	Normal
		1	Reverse direction
C. Fn-05	Focusing screen	0	EFA
		1	EFD
		2	EFS
C. Fn-06	Add original decision data	0	Off
		1	On
C. Fn-07	Live View Function exposure simulation	0	Disable (LCD auto adjust)
		1	Enable (simulate exposure)

# System Chart



## Specifications

	EOS-1Ds Mark III	EOS-1D Mark III
<b>Autofocus System</b>	TTL-AREA-SIR CMOS Sensor; One-Shot and AI Servo AF with Focus Prediction; Manual focusing confirmation possible with EF lenses; Automatic or manual focus point selection	
<b>Special Features</b>	<ul style="list-style-type: none"> <li>• 21.1 Megapixel CMOS Digital SLR camera</li> <li>• Built-in 3.0" wide viewing angle color monitor</li> <li>• 57 Custom functions in 4 sets</li> <li>• QUICK Control Dial</li> <li>• Simultaneous RAW and JPEG image capture</li> </ul>	<ul style="list-style-type: none"> <li>• Dioptic adjustment</li> <li>• Depth-of-field preview</li> <li>• FE lock</li> <li>• Mirror lock</li> <li>• N3 remote control socket</li> <li>• USB 2.0 Hi-Speed compatible</li> <li>• Magnesium alloy body</li> <li>• Dual "DIGIC III" Image processors</li> <li>• 14-bit A/D conversion</li> </ul>
<b>Sensor Size</b>	36.0 x 24.0mm	28.1 x 18.7mm
<b>Crop Factor</b>	1.0x (Full-frame)	1.3x (APS-H)
<b>No. of Focusing Points</b>	45 (Area AF Ellipse); 19 cross-type AF points (plus 26 Assist AF points)	
<b>Autofocus Sensitivity</b>	EV -1–18 (at ISO 100)	
<b>Shutter</b>	Vertical-travel, focal-plane shutter with soft-touch electromagnetic release, all speeds electronically controlled	
<b>Shutter Speeds</b>	1/8000–30 sec. & Bulb; manually settable in 1/3-, 1/2-, 1-stop increments	
<b>Maximum Flash Synchronization Speed</b>	Up to 1/250 sec.; high-speed sync. available with EX-series Speedlites	Up to 1/300 sec.; high-speed sync. available with EX-series Speedlites
<b>Recording Media</b>	Digital images are stored on removable CompactFlash™ (Type I or II) or SD/SDHC memory card	
<b>Frames Per Second</b>	Single, 3.0 fps, 5.0 fps	Single, 3.0 fps, 10.0 fps
<b>Metering System</b>	TTL full-aperture metering: <ul style="list-style-type: none"> <li>• 63-zone Evaluative metering</li> <li>• 8.5% Partial metering</li> <li>• 2.4% Center spot metering</li> <li>• 2.4% Spot metering (linked to user-selected focusing point)</li> </ul>	TTL full-aperture metering: <ul style="list-style-type: none"> <li>• 63-zone Evaluative metering</li> <li>• 13.5% Partial metering</li> <li>• 3.8% Center spot metering</li> <li>• 3.8% Spot metering (linked to user-selected focusing point)</li> </ul>
<b>Metering Sensitivity</b>	EV 0–20 for all patterns (at ISO 100 with f/1.4 lens)	
<b>Exposure Compensation</b>	±3 stops in 1/3- or 1/2-stop increments	
<b>Flash Exposure Compensation</b>	±3 stops in 1/3- or 1/2-stop increments	
<b>AE Lock</b>	Yes	
<b>Exposure Modes</b>	<ul style="list-style-type: none"> <li>• Shutter Speed-priority AE</li> <li>• Aperture-priority AE</li> <li>• Program AE (shiftable)</li> <li>• Manual</li> </ul>	<ul style="list-style-type: none"> <li>• E-TTL II Flash AE</li> <li>• Flash Metered Manual</li> <li>• Bulb</li> </ul>
<b>White Balance</b>	Settings: Auto, Daylight, Shade, Cloudy, Tungsten Light, Fluorescent Light, Flash, Color Temperature setting, Custom White Balance (5 settings possible), Personal White Balance (5 settings possible) Color temperature range 2,500–10,000K	
<b>Viewfinder</b>	Fixed eye-level pentaprism	
<b>Viewfinder Coverage</b>	100% horizontal/vertical at 0.75x	100% horizontal/vertical at 0.76x
<b>Viewfinder Information</b>	Inside the picture area: Area AF Ellipse, illuminated AF points and Spot metering circle. Displayed at the bottom and right side of the viewing area: <ul style="list-style-type: none"> <li>• Shutter speed</li> <li>• Aperture value</li> <li>• AE Lock</li> <li>• FE Lock</li> <li>• Shots remaining</li> <li>• Max. burst</li> </ul>	<ul style="list-style-type: none"> <li>• Multi-spot readings</li> <li>• Metering pattern</li> <li>• Highlight tone priority</li> <li>• Exposure level/Flash exposure level/Manual exposure level</li> <li>• Exposure compensation/Flash compensation</li> <li>• Exposure bracketing</li> <li>• Flash ready/Hi-speed sync</li> <li>• Focus confirmation</li> <li>• White Balance +/-</li> <li>• ISO speed</li> <li>• JPEG indicator</li> <li>• RAW indicator</li> <li>• Battery check</li> <li>• Memory card full warning</li> </ul>
<b>Focusing Screens</b>	Laser-matte screen Ec-C IV with area AF Ellipse and fine Spot metering circle provided as the standard screen (interchangeable with Ec-series focusing screens, metering correction data can be set with a custom function for the Laser-matte screens)	
<b>Self-Timer</b>	Electronically controlled with 2- or 10-second delay	
<b>Image Playback</b>	Image display format: Single Image, 4-image index, 9-image index, jump, Magnified zoom (approx. 1.5x – 10x), Auto review right after shooting, Histogram, Auto rotate, Rotate. Highlight alert is displayed in Single Image display and (INFO.) display, the highlight areas with overexposed data will blink	
<b>Direct Printing</b>	Compatible printers: CP Printers, Bubble Jet Direct, and PictBridge compatible printers	
<b>Body Dimensions (W x H x D)</b>	6.1 x 6.3 x 3.1 in./156 x 159.6 x 79.9mm	6.1 x 6.2 x 3.1 in./156 x 156.6 x 79.9mm
<b>Weight (Body Only)</b>	42.7 oz./1,210g	40.7 oz./1,155g

## Specifications

	EOS 5D	EOS 40D
<b>Autofocus System</b>	TTL-CT-SIR CMOS Sensor; One-Shot and AI Servo AF with Focus Prediction; Manual focusing confirmation possible with EF lenses; Automatic or manual focus point selection	
<b>Special Features</b>	<ul style="list-style-type: none"> <li>• 12.8 Megapixel CMOS Digital SLR camera</li> <li>• Built-in 2.5" wide viewing angle color monitor</li> <li>• 21 Custom functions with 57 settings</li> <li>• Multi-controller</li> <li>• Simultaneous RAW and JPEG image capture</li> </ul>	<ul style="list-style-type: none"> <li>• Dioptic adjustment</li> <li>• Depth-of-field preview</li> <li>• FE lock</li> <li>• Mirror lock</li> <li>• N3 remote control socket</li> <li>• USB 2.0 Hi-Speed compatible</li> <li>• Magnesium alloy body</li> </ul>
<b>Sensor Size</b>	35.8 x 23.9mm	22.2 x 14.8mm
<b>Crop Factor</b>	1.0x (Full-frame)	1.6x (APS-C)
<b>No. of Focusing Points</b>	9 (plus 6 Assist AF points); Center AF point is cross-type; Hybrid high and standard precision	9; Each AF point has cross-type sensor; Center AF point also has diagonal, high-precision cross-type sensor for f/2.8 or faster lenses
<b>Autofocus Sensitivity</b>	EV -0.5–18 (at ISO 100)	
<b>Shutter</b>	Vertical-travel, focal-plane shutter with soft-touch electromagnetic release, all speeds electronically controlled	
<b>Shutter Speeds</b>	30–1/8000 sec. & Bulb; manually settable in 1/3-stop increment	30–1/8000 sec. & Bulb; manually settable in 1/3 or 1/2-stop increments
<b>Maximum Flash Synchronization Speed</b>	Up to 1/200 sec.; high-speed sync. available with EX-series Speedlites	Up to 1/250 sec.; high-speed sync. available with EX-series speedlites
<b>Recording Media</b>	Digital images are stored on removable CompactFlash™ (Type I or II)	
<b>Frames Per Second</b>	Single, 3.0 fps	Single, 3.0 fps, 6.5 fps
<b>Metering System</b>	TTL full-aperture metering: <ul style="list-style-type: none"> <li>• 35-zone Evaluative metering</li> <li>• 8% Partial metering</li> <li>• 3.5% Center spot metering</li> </ul>	TTL full-aperture metering: <ul style="list-style-type: none"> <li>• 35-zone Evaluative metering</li> <li>• 9% Partial metering</li> <li>• 3.8% Center spot metering</li> </ul>
<b>Metering Sensitivity</b>	EV 1–20 for all patterns (at ISO 100 with f/1.4 lens)	
<b>Exposure Compensation</b>	±2 stops in 1/3- or 1/2-stop increments	
<b>Flash Exposure Compensation</b>	±2 stops in 1/3- or 1/2-stop increments	
<b>AE Lock</b>	Yes	
<b>Exposure Modes</b>	<ul style="list-style-type: none"> <li>• Program AE (shiftable)</li> <li>• Shutter Speed-priority AE</li> <li>• Aperture-priority AE</li> <li>• Full Auto</li> <li>• Manual</li> </ul>	<ul style="list-style-type: none"> <li>• E-TTL II Flash AE</li> <li>• 6 PIC (Programmed Image Control) modes</li> <li>• Full Auto Mode</li> <li>• 3 user-defined Custom Mode</li> </ul>
<b>White Balance</b>	Settings: Auto, Daylight, Shade, Cloudy, Tungsten Light, Fluorescent Light, Flash, Custom, Color Temperature setting	
<b>Viewfinder</b>	Fixed eye-level pentaprism	
<b>Viewfinder Coverage</b>	96% horizontal/vertical at 0.71x	95% horizontal/vertical at 0.76x
<b>Viewfinder Information</b>	Inside the picture area: Nine focusing points, 3.5% Spot metering circle. Displayed at the bottom of the viewing area: <p>Numeric and textual information with 7-segment LCD:</p> <ul style="list-style-type: none"> <li>• Shutter speed</li> <li>• Aperture value</li> <li>• AE Lock</li> <li>• FE Lock</li> <li>• Max. burst</li> <li>• Exposure level</li> </ul>	Inside the picture area: Nine focusing points, 3.8% Spot metering circle. Displayed at the bottom of the viewing area: <p>Numeric and textual information with 7-segment LCD:</p> <ul style="list-style-type: none"> <li>• Shutter speed</li> <li>• Aperture value</li> <li>• AE Lock</li> <li>• FE Lock</li> <li>• Max. burst</li> <li>• Exposure level</li> <li>• Flash exposure compensation</li> <li>• Exposure bracketing</li> <li>• Flash ready/High-speed sync</li> <li>• Focus confirmation</li> <li>• White Balance +/-</li> <li>• CF card full warning</li> </ul>
<b>Focusing Screens</b>	Precision laser-matte screen Ee-A marked with focusing points and Spot metering circle (interchangeable with Ee-series focusing screens; metering correction via C.Fn 00)	Precision laser-matte screen Ef-A marked with focusing points and Spot metering circle (interchangeable with dedicated Ef-series screens. Metering correction via Custom Function IV-5)
<b>Self-Timer</b>	Electronically controlled with 2- or 10-second delay	
<b>Image Playback</b>	Single image, Single Image (INFO.), 4-image index, 9-image index, Magnified zoom (approx. 1.5x – 10x), Rotated Image can be displayed. Highlight alert is displayed in Single Image and Single Image (INFO.) formats, any overexposed highlight areas link in the image display	
<b>Direct Printing</b>	Compatible printers: CP Printers, Bubble Jet Direct, and PictBridge compatible printers	
<b>Body Dimensions (W x H x D)</b>	6.0 x 4.4 x 3.0 in./152 x 113 x 75mm	5.7 x 4.2 x 2.9 in./145.5 x 107.8 x 73.5mm
<b>Weight (Body Only)</b>	28.6 oz./810g	26.1 oz./740g

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