

EOS 50D

The Featured Professionals

An Affordable SLR for Demanding Photographers

A remarkable combination of imaging performance, high-speed shooting capability, advanced features and a compact smooth-handling design, the EOS 50D answers the call for a wide range of photographers, including professionals and serious enthusiasts. It features an APS-C size 15.1 Megapixel Canon CMOS sensor for spectacular image capture and an advanced DIGIC 4 Image Processor for refined performance and capabilities. It delivers outstanding, low-noise images, even at higher ISO settings. With a superb 3.0-inch Clear View LCD monitor (920,000 dots/VGA), expanded Live View shooting capabilities, plus an array of automatic image enhancement technologies, the EOS 50D is a stellar DSLR, ready to deliver imaging excellence as a primary camera or a backup body.

WEDDING



**Hanson
Fong**

Explorer of Light

Putting the System to Work

Hanson Fong is recognized as one of the premier wedding photographers in the industry today. His work has been displayed in prestigious venues, such as the International Photography Hall of Fame and the Epcot Center. He has lectured at every major school of photography across America and his work has received high critical acclaim throughout the world. The tremendous versatility and solid dependability of the EOS System make it Fong's professional workhorse.

TRAVEL



**Lewis
Kemper**

Explorer of Light

Dependability in the Field

Lewis Kemper is a renowned outdoor photographer whose work is ubiquitous. His images have been seen in editorial and commercial usage in over 16 different countries and in print media ranging from national ads to book covers. Kemper is currently a contributing editor and columnist for *Outdoor Photographer* and *PC Photo*. For demanding outdoor shooting, EOS is Kemper's "go to" system for reduced size and weight without sacrificing professional features.

COMMERCIAL



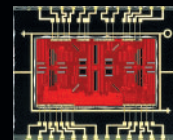
**Douglas
Kirkland**

Explorer of Light

Tools for the Professional's Travel Bag

Douglas Kirkland worked for *Look* and *Life* magazines during the '60s and '70s — the "golden age" of photojournalism. A highly respected fashion and celebrity photographer, Kirkland has worked on the sets of over one hundred motion pictures, making him one of the most sought-after entertainment industry photographers. With so much travel in his schedule, he relies on the EOS System to deliver lightweight, professional solutions.

Ready to Take on the Toughest Assignments



EOS 50D AF Sensor

Dependable Autofocus, Even in Low Light

The EOS 50D features outstanding autofocus performance, employing nine cross-type AF points to lock onto subjects, even if they are not centered in the composition. The center AF points are an advanced, diagonally mounted cross-type that enhances vertical and horizontal sensitivity at the widest lens apertures. They assure standout available light autofocus performance in a greater number of low-light shooting situations. **123**

Improved Low-Noise Performance

Eye-popping image quality is also assured by an improved noise reduction system, which can be used for long exposures and high-ISO shooting. The DIGIC 4 Image Processor has significantly improved noise reduction effectiveness, greatly reducing compromise in image detail when noise reduction is applied. With the EOS 50D, you can also select all but the strongest noise reduction setting without adversely affecting the maximum burst shooting speed in continuous mode. **123**

Outstanding Image Quality

The Canon 15.1 Megapixel CMOS sensor, the DIGIC 4 Image Processor and other advanced technologies, such as 14-bit A/D conversion, deliver high-quality image capture. The photographs you shoot with the EOS 50D will stand out for their extraordinary detail, color and dynamic range. The photodiode design in the EOS 50D CMOS sensor also ensures sublime low-noise performance when shooting at higher ISO settings. **123**

Better Flash Illumination

The Canon E-TTL II flash exposure control system compares light values and accurately calculates the flash output required for optimum illumination of the main subject and background. It ensures balanced, natural lighting, for example, when using fill flash. When you use Canon EX-series Speedlite flashes with the EOS 50D, you have at your disposal a world class flash lighting system.

Heavy-Duty but Light Around Your Neck

The EOS 50D is the perfect camera for assignments that require a light, nimble SLR body capable of quality image capture. The compact design of the 50D features top, front and rear covers made of magnesium alloy, known for its outstanding strength and light weight. The body's basic chassis is constructed of stainless steel for rugged durability. The EOS 50D also incorporates a high-performance shutter tested and rated to operate reliably over 100,000 cycles.

HDMI Output

The EOS 50D provides HDMI output, which enables the transmission of images captured by the camera to a High Definition television monitor for group viewing.



"In my world of wedding photography, you only have one chance. A professional camera must be



rugged, light-weight, fast and able to

produce the imagery with the quality my clients expect. The EOS 50D fits that profile with a large 3.0-inch screen and high-tech 15.1 Megapixel Canon CMOS sensor."

Hanson Fong

Explorer of Light



Unsurpassed Image Quality and Dependability



High-Resolution Capture

15.1 MEGA PIXELS
CMOS

The EOS 50D incorporates a Canon 15.1 Megapixel APS-C size CMOS sensor that delivers images of superlative quality.

Captured images exhibit exceptionally low noise and are unsurpassed in clarity, detail and color purity. Moreover, the high-resolution detail ensures a wide range of possible photographic applications as well as expanding post-production enlargement and cropping options. [123](#)

Exceptional Image Quality

The combination of the Canon 15.1 Megapixel CMOS sensor, the latest DIGIC 4 Image Processor and other advanced technologies, such as 14-bit A/D conversion, ensures the highest-quality image capture. Image detail, color and dynamic range are impeccable. Plus, the EOS 50D maintains its superlative low-noise performance even when shooting at higher ISO settings, enabling the use of faster shutter speeds often needed in action photography. [123](#)

High-Performance SLR Made to Travel

The compact, lightweight design of the EOS 50D makes it the ideal DSLR for professionals who need to carry extra camera bodies or shoot in high-activity situations. The EOS 50D body is an especially good match for the ultra-compact EF-S 18–200mm f/3.5–5.6 IS lens. This combination is perfect for “grab and go” shooting — light, easy-handling, covering everything from ultra-wide to super-telephoto — enabling you to capture superb images in just about any situation imaginable.

Dependable, Durable Camera

The top, front and rear covers of the EOS 50D body are made of magnesium alloy, known for its outstanding strength and light weight. The body's basic chassis is constructed of stainless steel for steadfast durability. The 50D also incorporates a high-performance shutter tested and rated to operate reliably over 100,000 cycles. [123](#)



3.0-inch Clear View LCD Monitor

A high-performance LCD monitor provides a large, detailed image and informational display. The brilliant 3.0-inch screen features approximately 920,000 dots/VGA with



enhanced brightness to ensure easy viewing ability even in bright outdoor conditions. The new high-resolution monitor complements the camera's

expanded Live View shooting options, which give you more alternatives to traditional through-the-viewfinder image composition. The Live View Function with Face Detection Live mode, for example, uses contrast AF to detect the human face, assuring proper subject focus even in the most challenging shooting situations. [124](#)

“If you want a compact lightweight camera with a lot of great features, you can't beat the EOS

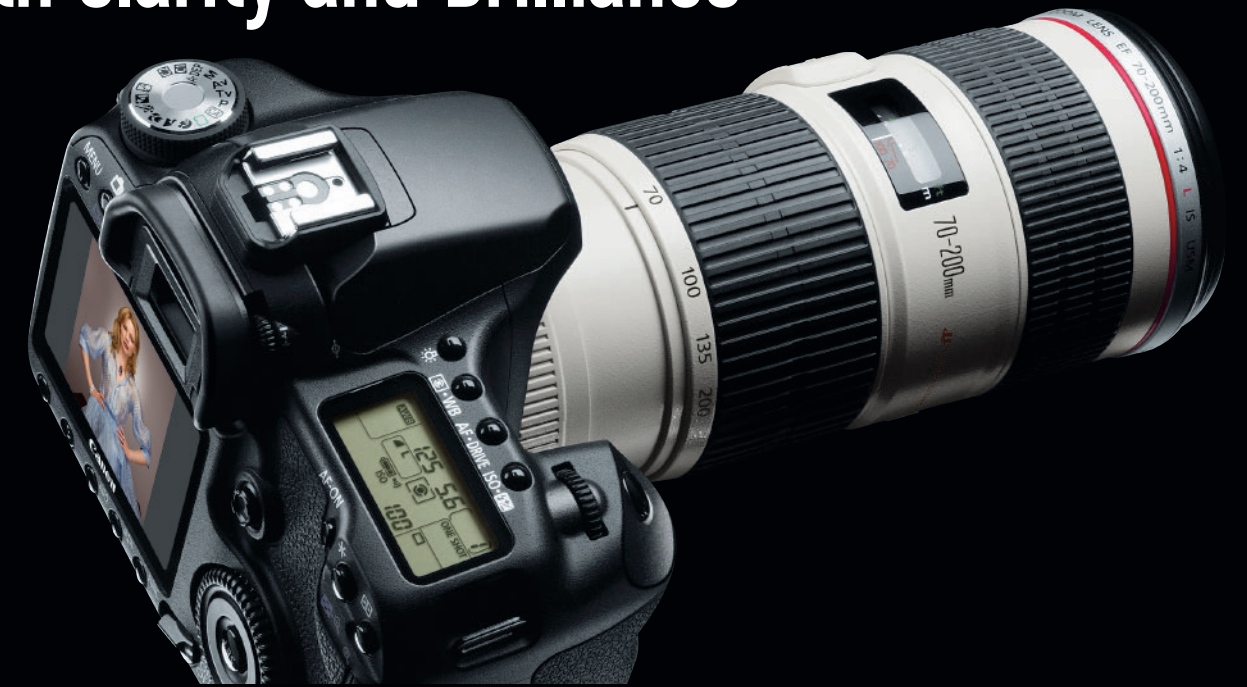


50D. With its ability to render beautiful images at

high ISO, produce smooth color transitions with its 14-bit color and the ability to hold highlight detail with the Highlight Tone Priority, your images will shine! I also love the fast 6.3 frames per second and buffer that never seems to quit. This camera would be a welcome addition in any camera bag!”

Lewis Kemper
Explorer of Light

Capture the Moment with Clarity and Brilliance




Actress Melissa George photographed by Douglas Kirkland on August 14, 2008, in Perth, Australia, for the 2009 Linneys jewelry advertising campaign. © 2009 Douglas Kirkland. All Rights Reserved.


Performance Without the Weight Penalty

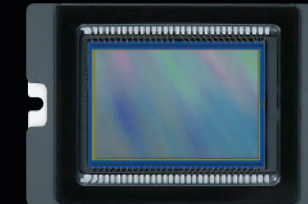
The EOS 50D proves good things can come in compact, lightweight packages. If what you need is a light, nimble SLR body with uncompromising performance and outstanding image capture quality, look no further than the 50D. It features top, front and rear covers made of magnesium alloy, known for its outstanding strength and light weight.

Extraordinary Durability and Solid Dependability

In addition to the magnesium alloy covers, the EOS 50D body features a basic chassis constructed of stainless steel for steadfast durability. The 50D also incorporates a high-performance shutter tested and rated to operate reliably over 100,000 cycles. Part of the EOS Integrated Cleaning System, the EOS 50D also features a Canon self-cleaning sensor unit, which removes dust using ultrasonic vibrations. 

3.0-inch Clear View LCD Monitor


The EOS 50D has a brilliant, high-resolution 3.0-inch LCD monitor, featuring approximately 920,000 dots/VGA with enhanced brightness to ensure eye-popping viewing ability even outdoors on a sunny day. The large, high-performance screen provides detailed image and information, displayed with unprecedented clarity and color accuracy. 




APS-C Size CMOS Sensor (actual size)

15.1 MEGA
PIXELS
CMOS

Outstanding Image Quality

The powerful Canon 15.1 Megapixel CMOS sensor, the advanced DIGIC 4 Image Processor, 14-bit A/D conversion and other advanced Canon technologies, assure image capture of the highest quality. Your photographs will be characterized by extraordinary detail, rich color and expanded dynamic range. 

Easier Access to Advanced Picture Style Features

The Picture Style feature enables photographers to select necessary camera settings through pre-programmed presets. It enables you to make optimal choices from among the many camera parameters simply by selecting the type of shooting. The EOS 50D provides six preset settings and three additional custom settings that you can program with your own settings. 



Picture Style – Portrait

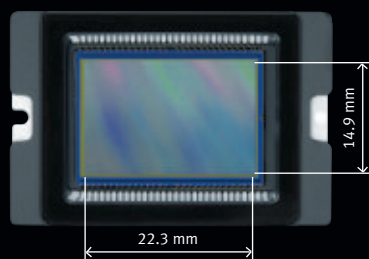
"I have never taken any camera out of the box and see it perform so simply and impeccably immediate as the EOS 50D. I always have high expectations for Canon and they never cease to astonish me. It has happened again with this camera. Superb image quality over comparable models and incredible value for the price. In addition, it is lightweight, easy to handle and is quickly becoming my close friend and traveling companion."

Douglas Kirkland
Explorer of Light

High-End Technology Without Compromise

Canon Innovation: The Hallmark of All EOS SLR Cameras

Highly Sensitive 15.1 Megapixel CMOS Sensor



EOS 50D APS-C CMOS Sensor (actual size)

The EOS 50D CMOS sensor delivers a high imaging resolution of approximately 15.1 effective megapixels. The recording area of the sensor is 22.3 x 14.9mm (APS-C), which results in a lens conversion (crop) factor of approximately 1.6 in relation to the traditional full-frame 35mm film format. An innovative micro semiconductor manufacturing process has increased the photodiode area and the photoelectric conversion rate, significantly improving noise performance, high ISO shooting capability and overall dynamic range. Light gathering efficiency has been improved through an improved fabrication process that eliminates gaps between the microlenses. An enhanced high-speed data acquisition system, which employs four channels per line, ensures faster image capture.

Advanced DIGIC 4 Image Processor



Successive generations of Canon DIGIC technology have brought steady improvement in processing speed and image

quality, providing the necessary power to deal with the increased volume of data generated by imaging sensors of ever-increasing pixel dimensions. The DIGIC 4 Image Processor in the EOS 50D incorporates the latest Canon technologies, elevating imaging performance to dizzying heights. Moreover, the DIGIC 4 Image Processor makes possible, an array of

advanced features, such as Live View Function with Face Detection AF, Auto Lighting Optimizer, Lens Peripheral Illumination Correction and expanded RAW capture options.

Expanded ISO Range

The advanced design of the Canon EOS 50D CMOS sensor and DIGIC 4 Image Processor delivers a remarkably wide ISO range of 100–3200 in standard mode, selectable in 1/3-stop increments. In extended range mode, the high end can be boosted to 6400 or 12800. The combined low-noise performance of the CMOS sensor and DIGIC4 Image Processor makes the higher ISO settings usable in real-world shooting situations.

Multiple RAW Recording Options

The EOS 50D augments traditional RAW recording by providing three RAW capture modes. The standard RAW mode fully utilizes the sensor providing a 4752 x 3168 pixel (approximately 15.1 Megapixels) image. The sRAW1 and sRAW2 modes capture at 3267 x 2178 (approx. 7.1 Megapixels) and 2376 x 1584 (approx. 3.8 Megapixels) pixels, respectively. The latter two RAW recording options greatly enhance shooting flexibility, enabling the photographer to select pixel dimensions appropriate to the assignment and reducing file sizes whenever possible to streamline processing.

Outstanding Low-Noise Performance

Riveting image quality is also assured by an improved noise reduction system. A Custom Function can be used to select automatic noise reduction with long exposures. Similarly, a Custom Function allows the photographer to fine-tune the degree to which noise reduction is applied when shooting at high ISO settings. The DIGIC 4 Image Processor has significantly reduced chroma noise in shadow areas. Moreover, all but the strongest noise reduction setting can now be selected without adversely affecting the maximum burst shooting speed in continuous mode.

Rugged Construction

The EOS 50D is a durable, dependable camera. The top, front and rear covers of the body are made of magnesium alloy, known for its out-

standing strength and light weight. Furthermore, by integrating the camera grip with the front cover, Canon engineers achieved excellent body rigidity. The body's basic chassis is constructed of stainless steel for exceptional durability and long-term mechanical reliability.

Innovative EOS Integrated Cleaning System

The Canon EOS Integrated Cleaning System uses ultrasonic vibration to remove dust that settles on the sensor surface. This self-cleaning routine is automatically activated whenever the camera is powered on or off, but can also be manually activated by the user. Moreover, by shooting a plain white subject, the photographer can acquire dust delete data that are transmitted along with the image (whether JPEG or RAW). Canon Digital Photo Professional (DPP) software can then be used to manually or automatically erase the dust spots. The EOS 50D incorporates the advanced Integrated Cleaning System that features an ultrasonic vibration system and a fluorine coating on the low-pass filter that better resists dust adhesion.



Self-Cleaning Sensor Unit

Fast Continuous Shooting with Precise Autofocus

Nine AF points make it easier to lock onto subjects, even if they are not centered in the composition. All AF points are of the cross type, with a diagonally mounted cross-type sensor at the center AF point that is sensitive to both vertical and horizontal lines. This enhances available light autofocus performance when using lenses f/2.8 and faster. The EOS 50D autofocus system also incorporates an advanced automatic compensation system that virtually eliminates the focusing errors that can occur with different light sources. In addition, the EOS 50D provides AF microadjustment capability via a Custom Function. Microadjustment can be performed globally (for all lenses) or individually for each lens in a photographer's arsenal. Up to 20 lenses can be programmed for AF microadjustment.

The high-performance shutter assembly, the fast autofocus system, the advanced

CMOS sensor, and the world-class DIGIC 4 Image Processor combine to make the EOS 50D a highly responsive, fast-handling camera. Despite the increased data handling requirements associated with 15.1 Megapixel image capture,



6.3 fps continuous shooting speed

the EOS 50D can shoot continuously at 6.3 fps. It can also capture up to 60 consecutive full-resolution JPEG images when a traditional CF card is used, and up to 90 JPEG images when a UDMA CF card is used, or up to 16 RAW images in a single continuous burst with either a CF or UDMA CF card.

Picture Style Presets

The Canon Picture Style feature provides a number of user-friendly presets that eliminate the need to make numerous individual changes to camera settings. They enable the photographer to make optimal choices based simply on the type of shooting. The EOS 50D provides six factory preset styles (Standard, Portrait, Landscape, Neutral, Faithful and Monochrome) and enables the user to program three additional custom presets. Modifiable parameters include sharpness, contrast, color saturation, color tone, filter effect and toning effect.

Auto Lighting Optimizer

The Auto Lighting Optimizer automatically adjusts brightness and contrast during image processing. This process can dramatically improve the tonal qualities of an image, especially when shooting conditions cause AE underexposure, flash underexposure, low contrast, or back-lit scene underexposure. It is automatically selected when shooting with the EOS 50D in the Full Auto or Creative Auto mode. In all other shooting modes, the user can select standard, weak, strong or no processing.



Auto Lighting Optimizer (Backlit Face Detect): Standard

Auto Lighting Optimizer (Backlit Face Detect): Disable

Lens Peripheral Illumination Correction

This powerful feature automatically corrects for light fall-off at the four corners of an image with many lenses. Since peripheral illumination characteristics vary for each lens, this corrective system relies on a registered database. With JPEG images, the correction is performed in-camera at the time of capture. With RAW images, the correction can be performed post-capture using Canon DPP software. The EOS 50D can store correction data for approximately 20 Canon lenses, and lens data can be added or deleted using the EOS Utility.

Extended Live View Function Capabilities

Live View Function allows the photographer to compose and shoot using the rear LCD monitor. Live View Function settings can now be accessed via a centralized function screen for easier use. In Live View mode, the camera uses Evaluative metering via the image sensor. Most shooting options — such as drive mode, ISO speed, Picture Style, white balance and AF mode (see below) — can be selected while in Live View mode.

There are three Live View AF modes. In Quick mode, the AF sensor is used for phase-difference detection. One-Shot AF is automatically selected, and the user can select an AF point even while the Live View Function image is displayed. When the AF Start button is pressed, the mirror goes down, momentarily interrupting the live display. After autofocus has executed, the mirror flips up, and the Live View Function image is restored. The Live mode uses the image sensor to perform contrast-detection AF. The Multi-controller can be used to select the AF point within 63% of the picture area. The Face Detection Live mode uses contrast AF to detect the human face. If multiple faces are detected, the face closer to the center and/or the larger face is automatically selected as the AF point. The photographer can use the Multi-controller to select a different face for AF as desired.

3.0-inch Clear View LCD Monitor

A high-performance LCD monitor provides large, detailed image and informational display. The brilliant 3.0-inch Clear View LCD monitor

features approximately 920,000 dots/VGA, providing 100% image area coverage and a wide viewing angle of 160° (both vertically and horizontally). The color gamut is much closer to the sRGB colorspace, ensuring more tonally accurate, natural-looking, viewed images. A new panel coating is more smudge resistant and provides dependable anti-reflection properties.

Wireless File Transmitter WFT-E3A

Originally designed for use with the EOS 40D camera, the WFT-E3A is also compatible with the EOS 50D, providing advanced



EOS 50D with Wireless File Transmitter WFT-E3A

functions and capabilities, such as both wireless (802.11b or g) and wired (100Mbps Ethernet) LAN connectivity. Its powerful transmitter with high-performance internal antenna deliver 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, enabling location information to be added to each image's EXIF data. Or, you can connect a USB v.2.0 hard drive to the transmitter for expanded recording media options. The WFT-E3A integrates perfectly with the EOS 50D body and provides a second set of the most often used camera controls for vertical shooting.

Comprehensive System Accessories

In addition to the impressive selection of Canon EF lenses and Speedlite flashes, the EOS 50D is fully compatible with all of the accessories available for the EOS 40D. These include the BG-E2N battery grip and the many power supply options, including power adapters and couplers. Also available for the EOS 50D are dedicated data interface cables, dioptic adjustment lenses, EF Series focusing screens and the OSK-E3 Original Data Security Kit.

* 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.

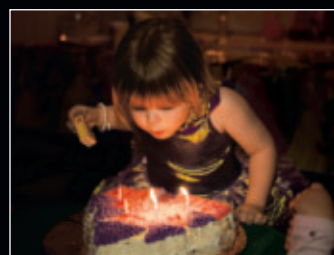
The Perfect Complement to Your EOS System

PowerShot

With shared EOS technologies like Genuine Canon optics, Optical Image Stabilizer, DIGIC Image Processor and a familiar user interface, it's easy to transition seamlessly between an EOS SLR and a PowerShot compact camera. They're the perfect complement to each other.



High Sensitivity System



The excellent performance of the PowerShot S90 and G11 is in no small part thanks to the new High Sensitivity System from Canon. The combination of a powerful 10

Megapixel CCD sensor and the brilliant DIGIC 4 Image Processor, along with fast lenses (f/2.0 on the S90 and f/2.8 on the G11) and the Canon Optical Image Stabilizer, ensure enhanced low light performance. It delivers lower noise images even at higher ISOs, an increase in dynamic range, less blurring, less use of flash and more confidence to shoot in dimly-lit situations.

Advanced Lenses with OIS

The design brilliance and know-how that goes into some of the world's most celebrated optics delivers the phenomenal lenses found in the S90 and G11.

With bright maximum apertures, fast lenses (f/2.0 on the S90 and f/2.8 on the G11), Wide-Angle Zooms (28 – 105mm on the S90 and 28 – 140 on the G11) and the lens-based Canon Optical Image Stabilizer, images are guaranteed to be sharp and crisp with impressive contrast and color fidelity no matter the subject.



DIGIC 4

The Canon DIGIC 4 Image Processor iSAPS technology ensures that image capture is completed quickly and easily, and that every image captured is as clear and sharp as can be. More powerful processing makes the recording of large, high resolution images faster and easier than ever before, while iSAPS technology enables high-speed AF and high-precision exposure and color processing, all in the blink of an eye.



Enhanced Camera Operation

Specialized features, like the 2.8-inch Vari-angle PureColor System LCD, found on the PowerShot G11, and the control ring found on the PowerShot S90, bring a whole new level of customization to the photographic process. With the G11's Vari-angle PureColor System LCD, it's simple to compose and shoot with the camera held high above the photographer's head or at hip level, enhancing composition choices and making shooting possible in more situations. With the S90's control ring, parameters like exposure, aperture, white balance, zoom and more can be accessed and set with a simple twist.

RAW Image Capture

Both the PowerShot G11 and S90 offer RAW image recording in addition to JPEG. Perfect for images that the photographer wishes to work with in post-production, RAW files are the equivalent of digital negatives, in that only the image data is recorded. With RAW image files, the photographer can alter aspects like color balance, sharpness, saturation and more, infinite times in post-production without image degradation.



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PowerShot G11

The Best and the Brightest

The PowerShot G11 brings Canon EOS performance to a compact camera that can shoot anywhere, anytime. Featuring the High Sensitivity System, which combines a 10.0 Megapixel sensor with high ISO sensitivity, the Canon DIGIC 4 Image Processor and a fast, 5x Optical f/2.8 Lens (28-140mm equivalent) with the amazing Canon Optical Image Stabilizer; the PowerShot G11 is engineered to perform. It features a large, 2.8-inch Vari-angle PureColor System LCD with 461,000 dots, plus optical viewfinder. It offers the ultimate in creative control, with a range of shooting modes including RAW + JPEG, has an improved Smart Auto function with 22 predefined shooting situation settings, is compatible with a number of optional accessories, including Speedlites, lens adapters and a waterproof housing, and connects to an HDTV via HDMI. With power to go, amazing automatic and manual functions, speed, flexibility and superlative Canon optics, the G11 is indeed the flagship PowerShot.



PowerShot S90

Pocketable Perfection

The new PowerShot S90 from Canon puts SLR control and speed into a pocketable, take-anywhere gem of photographic excellence. It delivers phenomenal results in most any situation. It has the Canon High Sensitivity System — composed of a 10.0 Megapixel sensor designed for low-noise, high-ISO shooting up to ISO 12800 and the Canon DIGIC 4 Image Processor — and a bright f/2.0 3.8x Optical Zoom (28 – 105mm equivalent) with the Canon Optical Image Stabilizer. And the S90 delivers phenomenal performance thanks to its fast lens, a 3.0-inch PureColor System LCD for true to life color reproduction, its customizable control ring for easy access and operation of manual or other creative shooting settings and its ability to shoot RAW + JPEG for the ultimate in creative control. All of this comes in a sleek, gorgeous and portable design tailored for the pockets of photographers everywhere.



Film-Like Quality Projection



REALiS

Canon created the REALiS line of multi-media projectors to meet the exacting demands of professional photographers.

REALiS projectors feature a patented Aspectual Illumination System (AISYS), and LCOS (Liquid Crystal on Silicon) technology. Incorporating sophisticated Canon optics and a high-accuracy color management system, Canon REALiS projectors display even the subtlest hues and color gradations, reproduced with amazing clarity, resulting in true-to-life photography every time. For accuracy, simplicity and the confidence of Canon-to-Canon, there's no substitute for REALiS.

Display High Resolution Images and Video



To match the increasing demand for wide screen, all REALiS projectors can display wide screen content

produced on your PC or MAC. The REALiS WUX10 Mark II allows you to display images in high resolution WUXGA, perfect for displaying photographs and high definition 1080p video – with zero compression.

The LCOS Advantage

What is the LCOS technology advantage? Lattice-free, seamless images. LCOS produces exceptional color, intricate detail and HD images that leap off the screen in breathtaking quality and integrity. REALiS LCOS projectors minimize the "screen-door effect," creating detailed, color-rich images with text that is crisp and dark. The advantages of LCOS are easy to see for both presenter and audience alike: photos with rich color, deep contrast, fine grain and sharp resolution. There's no clearer choice than REALiS.



The AISYS Optical System

Our proprietary AISYS optical system efficiently utilizes and equalizes light from the projector lamp, thereby boosting the performance of both key functions: brightness and contrast. AISYS, which stands for Aspectual Illumination System, increases brightness and contrast together; one function never sacrifices the other. AISYS even allows us to produce a more compact unit, reducing unit weight and cost.

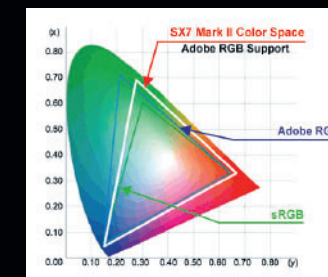


Taking LCOS to the Next Level

Rarely satisfied and never complacent, count on Canon to develop a method for making LCOS technology even better. Image quality is optimized thanks to new optical elements that were incorporated into the illumination optical system, enhancing the uniformity of light. Technically speaking, the Polarizing Beam Splitters (PBS) in the color separation and recombination system were designed for more precise light control. What does this science mean to you? REALiS brings you a whole new standard in bright, beautiful, high-definition, high-contrast images. REALiS assures a captivated audience. REALiS assures confident presenters. REALiS brings you the next level in LCOS performance.

Proprietary Color Management

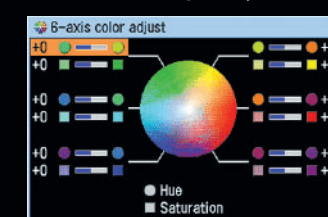
All REALiS projectors feature Canon's high-accuracy Color Management System (CMS) which ensures accurate color reproduction for an extended color space and compensates for color variances due to lighting differences. The advantage: true HD-quality color even in the toughest conditions. Precise control prevents the excess leakage of light, producing rich, detailed gradations even in the



The REALiS SX7 series supports Adobe RGB color space.

shadowed portions of images — recreating depth and dimension with stunning drama and realism. The REALiS SX7 features Adobe RGB Color Match System. Proprietary color filters incorporated into the AISYS optical system deliver exceptional accuracy and detail in both Adobe RGB and sRGB modes. This is ideal for professional photography, where color integrity is crucial.

Fine Tune Image Adjustment Control



Fine tune adjustments to color can be made with the 6-axis color adjustment function.

The REALiS WUX10 Mark II and the SX80 Mark II both feature a Photo image mode setting, allowing you to make precise adjustments to the projector's color temperature and

color level. All but the REALiS SX800 also feature a 6-Axis Color Adjustment function, meeting the needs of photography professionals with demanding color requirements. Both hue and saturation can be adjusted independent of RGB and CMYK color axes.

DICOM Simulation Image Mode

The DICOM Simulation image mode simulates the results of a device compliant with the Digital Imaging and Communications in Medicine (DICOM) Part 14 standardized display function, for the display of grayscale images. When in the DICOM Simulation image mode, images such as X-rays, CAT scans, and MRI's can be projected in a tone similar to the DICOM standard. While not approved for medical diagnoses, this mode is ideal for medical educators who need to display large images to properly trained students, and to conduct lectures and conferences. The DICOM Simulation image mode is included on all Mark II D projectors.

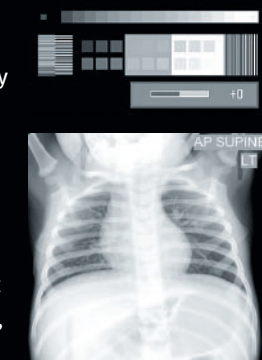


Photo Image Mode

The Photo image mode setting allows you to make precise adjustments to the projector's color temperature and color level. Ambient light can cause changes in the accuracy of the colors being projected. The Photo image mode allows you to make adjustments to the projector based on the lighting condition of the room, to ensure optimum color accuracy. The Photo image mode is included on all Mark II projectors.

Versatile Connectivity

The REALiS SX80 includes a built in USB port for seamless PC presentations and PictBridge camera compatibility, an HDMI terminal (Version 1.3 Deep Color) for projection of high quality digital images and 1080p video, and a built-in network connection for remote network operation.



Projectors & Visualizers

REALiS Series – LCOS Projectors

REALiS WUX10 Mark II D

With cutting-edge WUXGA high-definition resolution (1920 x 1200), the wide-screen REALiS WUX10 Mark II D Multimedia Projector from Canon adds impact to any presentation, having improved light efficiency, uniformity, and expanded color space for outstanding color reproduction that delivers razor-sharp image quality. Including proprietary Canon AISYS-enhanced LCOS technology, other features include 3200 lumens, a 1.5x zoom, full 10-bit image processing, a new DICOM Simulation Mode and versatile connectivity with an HDMI port (version 1.3 deep color) that supports 1080p high-definition video. The REALiS WUX10 Mark II D additionally has a built-in network connection for remote network operation.



REALiS WUX10 Mark II

The REALiS WUX10 Mark II is a high-performance WUXGA (1920 x 1200) resolution projector using LCOS technology, providing spectacular image quality, resolution and color reproduction for end-users in corporate, educational and specialized fields. This exceptional widescreen projector also features 3200 lumens, a powerful 1.5x zoom, full 10-bit image processing, a new Photo Image Mode for advanced color management and versatile connectivity with an HDMI port that supports 1080p high-definition content. The exclusive AISYS technology improves light efficiency, uniformity and expands color space for outstanding color reproduction, delivering razor-sharp image quality.



REALiS SX7 Mark II D

The astounding color reproduction of the Canon REALiS SX7 Mark II D Multimedia Projector ensures true-to-life high-definition images without blur. This powerful projector offers super-bright 4000 lumens, SXGA+ (1400 x 1050) high resolution, an Adobe RGB Color Match System and a new DICOM Simulation Mode for displaying images with exact detail, perfect for corporate or medical applications. Highly detailed images are reproduced with amazing color and contrast due to the projector's 1.7x optical zoom lens and AISYS-enhanced LCOS technology for high-quality, gapless projection.



REALiS SX7 Mark II

The Canon REALiS SX7 Mark II ensures true high-definition images and gorgeous color reproduction for your presentations. Native SXGA+ resolution (1400 x 1050), an Adobe RGB Color Match System, and a new Photo Image Mode provide superior reproduction of source text, graphics and moving images. Highly detailed images are reproduced with amazing color and contrast thanks to the projector's 1.7x optical zoom lens. Ultra-bright 4000 lumens and a long-lasting AC lamp, combined with the Canon AISYS-enhanced LCOS optical system technology, provide high performance projection at all times, projecting seamless images with no gaps between pixels.



REALiS SX80 Mark II D

Offering 3000 lumens, the Canon REALiS SX80 Mark II D is equipped with an expanded display area of SXGA+ (1400 x 1050) high resolution and Canon AISYS-enhanced LCOS technology, expanding color space and producing amazingly accurate images. Featuring a new DICOM Simulation image mode setting, the REALiS SX80 Mark II D can be calibrated to the DICOM14 standard. Other features include a built-in USB port for "PC Free" presentations and PictBridge camera compatibility, an HDMI terminal (version 1.3 deep color) for projection of high-quality digital images and 1080p video, and a built-in network connection.



REALiS SX80 Mark II

The REALiS SX80 Mark II is an affordable, high-performance SXGA+ (1400 x 1050) resolution projector using LCOS technology providing exceptional image quality, resolution and color reproduction for corporate, educational, and specialized fields. With 3000 lumens, an HDMI port (version 1.3 deep color) that supports high-definition 1080p content, a USB port that allows for "PC Free" presentations and PictBridge compatibility, and a new DICOM Simulation Mode, the SX80 Mark II is equipped with an expanded display area of SXGA+ (1400 x 1050) high resolution and Canon's AISYS-enhanced LCOS technology, producing amazingly accurate images.



REALiS SX800

A truly affordable way to upgrade to a high-resolution LCOS projector, the SX800 features advanced technology and SXGA+ resolution (1400 x 1050), creating spectacular, true-to-life, high-definition images that pop off the screen. With 3000 lumens, the SX800 brings enriched color, clarity, and textural nuances to your presentations. Canon's proprietary AISYS-enhanced LCOS technology virtually eliminates the distracting "screen door" effect common with LCD units, so intricate details and text as small as 7-point remain crisp and legible. The SX800 projector contains the technology and functionality you need for superior performance, as well as fast, easy, and quiet operation, at a reasonable price.



Visualizer

Visualizer RE-455X

The Canon RE-455X video visualizer combines image quality with the versatility and flexibility you need to display a wide variety of documents, media, and even 3-D objects. No matter what you need to show in the office or classroom, with XGA (1024 x 768) resolution, 15 frames per second capture, a 12x zoom lens, twin fluorescent lamps, RGB input and a variety of features, the RE-455X is easy to use and easy to carry. You can even connect your PC and switch between the RGB input from your computer and the image from the RE-455X for a single, seamless presentation.



Professional Tools for HD Video Capture

Canon High Definition HDV video cameras reflect decades of Canon leadership and know-how in the design and manufacture of cameras and lenses for professional video and still photography. You get not only outstanding HD image quality, but also the operability, flexibility, reliability and connectivity that professionals demand of their gear. Canon HD video cameras deliver the technologies, performance and features that make them serious tools for the capture of creative HD content. They'll help you get the job done with efficiency, excellence and expression.



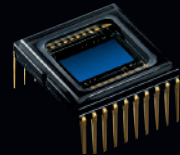
Genuine Canon Zoom Lens

HD image quality starts with optics, and Canon professional HDV video cameras deliver the many benefits of Canon's world-renowned lens technologies. Genuine Canon Professional L-series video camera lenses incorporate fluorite and ultra-low-dispersion elements, ensuring outstanding resolution contrast and color reproduction, and delivering a level of image quality throughout the entire zoom range far better than conventional optics. The standard 20x zoom covers an exceptionally wide and useful range of focal lengths, assuring wide versatility for a vast range of shooting applications.



Native 16:9, 3CCD Performance

A sophisticated 3CCD design employs separate native 16:9 sensors for each primary color. The high pixel count — approximately 1.67 million pixels (1440 x 1080) per sensor — ensures detailed HD capture (equal to about 800 TV lines of horizontal resolution). Color is rendered with exceptional accuracy and wide dynamic range and virtually no color noise.



DIGIC DV II HD Image Processor

Engineered and manufactured exclusively by Canon, specifically for HD, the advanced DIGIC DV II HD Image Processor uses proprietary algorithms and architectures to deliver optimal image quality at the blisteringly high operating speeds.

The DIGIC DV II HD processor is optimized for HD video, operating at 1440 x 1080 pixels with 4:2:2 color sampling. A hybrid noise reduction system uses dual processes to improve image clarity in monotone and shadow areas. Color reproduction is remarkably natural, especially in skin tone areas and with dark and light scenes. A hybrid noise reduction system employs dual processes to ensure brilliantly clear HD images.



SuperRange Optical Image Stabilization

The 20x HD video zoom lens on Canon HDV video cameras incorporates proprietary Canon SuperRange Optical Image Stabilizer technology, which further improves low-frequency vibration control by using two detection methods (gyro and vector). The image at the CCD sensor is analyzed, providing additional feedback to the prism for even greater compensation precision. The result is highly reliable camera shake correction, even at long focal lengths.

Canon Interchangeable XL Lens Mount

The XL H1S and XL H1A video cameras feature the XL mount system that offers the added range and flexibility of interchangeable lenses. For example, the optional Canon HD Video Lens 6x XL has a 3.4 to 20.4mm Wide-Angle Zoom range, which gives you an extensive range of focal lengths from 24.5 to 147mm (in equivalent 35mm full-frame film format terms).



Professional Interface Capabilities

The XL H1S and XH G1 camcorders are designed to meet interface requirements in a variety of professional shooting and production environments: HD-SDI (SMPTE 299M) or SD-SDI (SMPTE 272M) output with 4:2:2 color sampling and embedded audio and time code greatly reduces cabling complexity. A Genlock input enables multi-camera synchronization in live-switched environments. A switchable SMPTE input/output port accommodates time



Unique Customization Features

The unmatched customization capability built into Canon HDV video cameras make them exceptionally versatile and flexible. The customization features enable them to be precision-tailored for different environments, different users and different jobs. Numerous image adjustments, display options and custom function settings define the camera's performance and operating characteristics. Groups of these settings can be saved and exported to other Canon HDV video cameras using an SD memory card or Canon Console software. Organizations that use many cameras can take advantage of this feature to easily set up multiple units for uniform capture characteristics.

code requirements on the XH G1, while separate input and output terminals are available on the XL H1S.

High-Speed Zoom Mode and Manual Iris Ring

A High-Speed Zoom Mode provides superb response, enabling zoom speed control by how fast the zoom ring is rotated. The Manual Iris Ring enables fine, smooth adjustment in 1/8th-stop increments. The combination of the focus, zoom, and iris rings on the lens creates the same "feel" as on manual broadcast lenses — a design preferred by professional users.

XL H1S | XL H1A

High Definition HDV

These video cameras combine industry-standard connections and terminals not only with a wide range of image control settings and options, but also the advanced Genuine Canon 20x HD L-series Video Zoom Lens III. They also feature an interchangeable lens mount compatible with 6 video lenses and Canon EF lenses. Both HD video cameras have added an even higher level of customization options and capabilities for demanding professionals.



XH G1S | XH A1S

High Definition HDV

Smaller and light-weight, yet still maintaining superb Canon image quality, capability and performance that professionals require, these professional video cameras feature Genuine Canon 20x HD L-series Video Zoom Lenses, SuperRange Optical Image Stabilizers and DIGIC DV II HD Image processors to create outstanding 1080 HD resolution images with functionality, flexibility and reliability.



VIXIA HF S21

High Definition Flash Memory Camcorder

The Canon VIXIA HF S21 records high definition video to a 64GB internal flash drive or directly to two removable SDHC memory cards. The Canon 1/2.6-inch 8.59-megapixel Full HD CMOS Image Sensor and Canon DIGIC DV III Image Processor combine to provide stunning 1920 x 1080 resolution in gorgeous color. Dynamic SuperRange OIS with Power IS technology, 3.5-inch High Resolution Touch Panel LCD and Smart Auto all unite to provide superb image quality and simple functionality to make your video everything it can be.



High Definition Evolved



XF300

High Definition Camcorder

With a host of features previously reserved for only the most advanced professional cameras, the Canon XF305 and XF300 deliver Full HD, 1920 x 1080 video simply, economically and without compromise. Featuring MPEG-2 4:2:2 50Mbps recording directly to low-cost Compact Flash cards, the XF305 and XF300 are designed to operate seamlessly within established industry workflows, quickly delivering outstanding image quality for any application. Whether shooting news, documentaries, weddings or events, on location or in studio, the XF305 and XF300 raise the bar, offering outstanding reliability and intuitive operation that one can only expect from Canon.

Genuine Canon 18x HD L-Series Lens



The XF305 and XF300 feature a stunning 18x HD L-Series video lens designed to capture every image with superb clarity and capable of delivering 1,000 TV lines of resolution. With a 35mm equivalent zoom range of 29.3 – 527.4mm, it's perfect for everything from wide-angle to extreme telephoto shooting. As with the famous Canon EF L-Series camera lenses, this HD L-Series video lens uses advanced optical design and technology.

The lens incorporates High-Index-Ultra-Low Dispersion (HI-UD), UD, and aspherical lens elements to capture high-resolution video while minimizing chromatic aberration. Precise and predictable lens operation is achieved with mechanical end stops for both zoom and focus systems. Additionally, the lens barrel includes distance indicators for easily setting desired focus distance and moving between focus points while recording.

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HD Video Lens

XF305

High Definition Camcorder

The Canon XF305 and XF300 feature a new SuperRange Optical Image Stabilizer (OIS) system featuring Dynamic and Powered modes for optimal performance in the greatest variety of situations. Powered mode suppresses the types of vibrations most prevalent when shooting telephoto, while Dynamic mode is designed to provide extra compensation at wide angle focal lengths to eliminate vibration common when walking and shooting.

Three Native 1920 x 1080 CMOS Image Sensors (Canon Engineered and Manufactured)

The XF305 and XF300 feature three native 1920 x 1080 CMOS image sensors that deliver outstanding, Full HD video recording with minimal noise. Plus, the 1/3-inch sensor enables a compact lens and body design, for greater mobility and quick shooting.

DIGIC DV III Image Processor

Designed specifically for Canon HD camcorders, the next generation DIGIC DV III Image Processor ensures natural, lifelike colors with excellent black reproduction. Tonal gradations and shadow detail are captured with remarkable accuracy. The DIGIC DV III Image Processor enables Genuine Canon Face Detection, which



is ideal for tracking a face in a crowd. Additionally, DIGIC DV III works to minimize power consumption, resulting in longer battery life.



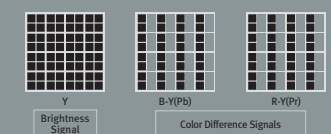
MPEG-2 4:2:2 50Mbps Codec

The XF305 and XF300 incorporate Canon's new MPEG-2 4:2:2 50Mbps codec (Canon XF Codec), capable of recording fine detail and deep color while maintaining compatibility with industry standard workflows. Placing both the XF305 and XF300 on the high end of the market in terms of codec quality, these are the camcorders to use when advanced post-production processing such as compositing, color correction or grading will be required. The XF305 and XF300 capture Full HD (1920 x 1080) at a maximum 50Mbps (Constant Bit Rate). 4:2:2 color sampling offers twice the color resolution of HDV and other 4:2:0 formats for robust, accurate color detail. The XF305 and XF300 use Material Exchange Format (MXF). MXF, an internationally standardized file format, is designed to make the exchange of audio and video materials among NLE (Non-Linear Editing) systems simple. The MXF format wraps video and audio with metadata in a single file, maintaining access to critical information throughout the production process.

MPEG-2 Long-GOP

4:2:2

Twice the color resolution of 4:2:0



50Mbps

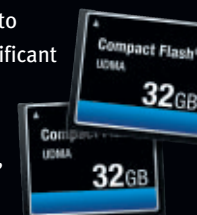
Highest Recording Capability 50Mbps (CBR)

MXF

Material Exchange Format

Essence Metadata

with which files can be transferred to computers, CF cards represent a significant savings in cost. The XF305 and XF300 have two hot-swappable CF card slots, perfect for relay recording, copying and backup.



Smooth Integration With Production Infrastructure

The XF305 and XF300 are designed to produce video files compatible with most production and broadcast environments. Industry standard MPEG-2 compression means easy integration for broadcast, cable or satellite networks. Canon worked closely with major non-linear editing (NLE) manufacturers to ensure maximum compatibility and seamless workflow with the Canon XF Codec. The XF305 also offers terminal support for HD-SDI output, genlock and time code, ideal for live broadcast applications, multi-camera shooting and uncompressed Full HD output. With the XF305 and XF300, Canon has designed the ideal go-to camera for professional productions, large or small.



Advanced Features

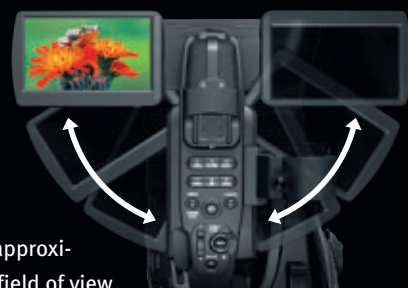
The XF305 and XF300 feature a number of functions designed specifically to make complicated shoots easier. Often found as part of expensive external units, the XF305 and XF300 include a versatile waveform monitor and vectorscope. The waveform monitor provides an objective and detailed analysis of overall image brightness and RGB components ensuring correct exposure. The vectorscope shows real-time image hue and saturation analysis, key to achieving accurate white balance and for making color balance changes on the fly.

Compact Flash Card Recording

The XF305 and XF300 record on easily available, non-proprietary, and inexpensive CF cards. Besides their rugged, solid-state construction and the speed and ease

4.0-inch LCD Monitor, High Resolution EVF and Advanced Focusing Features

The XF305 and XF300 feature a bright and sharp 1.23 Megapixel 4.0-inch LCD monitor with approximately 100% field of view coverage. The LCD flips both ways for viewing from the left or right side of the camera and has an extra 35 degrees of movement for increased operability, even in tight situations. The XF305 and XF300 also offer a 0.52-inch, 1.55 Megapixel color electronic viewfinder (EVF), a breakthrough in critical focusing. Two peaking modes and a magnification mode are available in standby and record mode, making it extremely easy for the camera operator to check and confirm critical focus. In addition, Canon's exclusive Edge Monitor Focus Assist system displays a red and green waveform monitor at the bottom of the LCD monitor and three red focus check areas across the monitor. The green waveform shows overall focus while the red waveform shows the status of each focus check box. With this dynamic focus feedback, the user can quickly tune focus in a specific area, and move between focus points in a scene with a whole new level of accuracy and speed.



second for capturing sports and action. For PAL compatible shooting, an optional upgrade for 50i and 25p recording is available through the Canon Factory Service Center.

For shoots when the action stops and starts, the XF305 and XF300 have a Pre-Record feature. With Pre-Record activated, the camcorder constantly buffers approximately three seconds of video into its memory. When the record button is pressed, recording begins immediately and the content of the camera's buffer memory is added, ensuring that no important or unexpected action is missed. The Slow and Fast Motion mode allows the XF305 and XF300 to record a different frame rate than the playback frame rate resulting in either a fast or slow motion effect during playback. Since the camera is recording real frames and modifying the playback rate, there is no quality loss due



Interval Recording

to interpolation and maximum image quality is maintained. In 1080p mode, fast motion is supported up to 2.5x the normal

rate and as slow as 1/2.5x. In 720p mode, fast motion is supported up to 5x the normal rate and as slow as 1/1.25x. For time-lapse applications, the XF305 and XF300 have an Interval Recording mode that can be left to shoot a specified number of frames at pre-defined intervals. For stop-frame animation, the XF305 and XF300 feature a frame record function allowing the camcorder to be programmed to record a specified number of frames each time the camera is triggered.

Customization

With extensive custom settings, the XF305 and XF300 enable the professional user to control and customize every facet of shooting. A vast range of image quality, control and display options ensure camera operation that is intuitive, speedy and comfortable, no matter the style of the shooter.

- For just the right look, the XF305 and XF300 camcorder's Custom Picture Settings make it simple to define the Gamma, Knee, Color Matrix Adjustment, Saturation, Sharpness, Master Black, Skin Tone and more.

Recording Modes and Frame Rates

No matter the prescribed workflow, the XF305 and XF300 can capture video at just the right resolution, speed and bit rate. These are the first cameras in their class to shoot MPEG-2 4:2:2 files at 50Mbps (Constant Bit Rate), 35Mbps (Variable Bit Rate), for longer shooting times and 25Mbps (Constant Bit Rate) for compatibility with HDV content. In addition to shooting in Full HD mode, 720p mode is available at speeds up to 60 frames per

Recording Mode		
Recording Mode	Resolution	Frame rate
50Mbps 4:2:2	1920	60i
	x	30P
	1080	24P
	x	60P
	720	24P
	x	30P
35Mbps 4:2:0	1920	60i
	x	30P
	1080	24P
	x	60P
	720	24P
	x	30P
25Mbps 4:2:0	1440	60i
	x	30P
	1080	24P

Optional 50i/25p upgrade through Canon Factory Service Center

- To customize the operation of the XF305 and XF300 to the tastes and particulars of the user, 28 different functions are assignable to 13 buttons located on the camera. All custom menus and settings can be saved onto an SD card, making it easy to share settings among cameras or users, saving significant setup time when matching multiple cameras to a pre-set style or moving between cameras.



Custom Picture Settings					
Gamma	Normal 1		Selective NR	Effect Level	Off
	Normal 2			Low	
	Normal 3			Middle	
	Normal 4			High	
	Cine 1			Hue	0 → 31
	Cine 2			Chroma	0 → 31
Black	Master Pedestal	-50 → +50	Color Matrix	Area	0 → 31
	Red	-50 → +50		Y Level	0 → 31
	Green	-50 → +50		Select	Normal 1
Blue	-50 → +50	Normal 2			
Level	-50 → +50	Normal 3			
Range	-5 → +50	Normal 4			
Point	-1 → +50	Cine 1			
On		Cine 2			
Low Key Saturation	Enable	On	White Balance	Gain	-50 → +50
	Level	-50 → +50		Phase	-18 → +18
Knee	Enable	On		R-G	-50 → +50
	Off			R-B	-50 → +50
	Auto	On		G-R	-50 → +50
	Slope	-35 → +50		G-B	-50 → +50
	Point	50 → 109	B-R	-50 → +50	
	Saturation	-10 → +10	B-G	-50 → +50	
Sharpness	Level	-10 → +50	Color Correction	B Gain	-50 → +50
	H.Detail Frequency	-8 → +8		G Gain	-50 → +50
	HV Detail Balance	-8 → +8		R Gain	-50 → +50
	Limit	-50 → +50	Off		
	Select	0 → +15	A Area Select	Select Area	A
	Gain 0 → 9			B	
	Knee Aperture	Gain 0 → 9		A&B	
	Slope 0 → 3			Phase 0-31	
	Level 0 → 50			Chroma 0-31	
	Slope 0 → 3			Area 0-31	
Offset 0 → 50		Y Level 0-31			
Coring	Level	-30 to +50	A Area Revision	Level -50 to +50	
	D-Ofst 0 to +50			Phase -18 to +18	
	D-Curve 0 to +8			Phase 0-31	
	D-Depth -4 to +4		Chroma 0-31		
Noise Reduction	Auto		B Area Select	Area 0-31	
	Off			Y Level 0-31	
	1 → 8			Level -50 to +50	
	Off		B Area Revision	Phase -18 to +18	
	Level	-50 → +50		Phase 0-31	
	Press	On		Chroma 0-31	
Skin Detail	Effect Level	Low	Setup Level	Level	-50 → +50
	Middle			On	
	High			Off	
	Hue	-16 → +16	100% Clip	On	
	Chroma	0 → 31		Off	
	Area	0 → 31			
Y Level	0 → 31				

Extensive Connectivity

The XF305 and XF300 are designed with numerous options to insure that the camcorders meet the requirements of professional workflows by connecting seamlessly with other production equipment. They are equipped with a DC-In terminal, allowing connection to AC power and the hot swapping of batteries, XLR audio inputs for connection to professional audio devices, USB 2.0 Hi-Speed, HDMI out, AV out, component video out, headphone jack, dedicated video 2 out and a remote connection featuring full LANC support for camera control with third-party controllers. Additionally, the XF305 adds HD-SDI, genlock and SMPTE time code (in/out) terminals, essential for live broadcast and multi-camera setups. A new Intelligent Lithium-Ion battery system provides detail about the remaining power level and battery wear. The XF305 and XF300 also maintain compatibility with legacy Canon BP-900 series batteries maintaining the value of existing batteries many professionals already own.



Canon XF Utility

Compatible for use on both Mac and Windows platforms, Canon XF Utility software provides a simplified first step in the process of managing and playing back clips. Additionally, the software can manage lists of clips in a number of display formats, add and edit metadata, and backup media.

Refined Ergonomics and Durability for Easier Operation

The XF305 and XF300 are designed from the ground up to maximize shooting comfort and usability. The camcorders feature a redesigned layout making them more intuitive than any that came before them. New users and users switching from other products will find the button layout, camera menu system and camera controls familiar and easy to use out of the box. The well balanced design allows the operator to comfortably control the camera and easily maintain a steady shot while minimizing arm fatigue.



Great Images Start with Great Lenses

For many professional photographers, Canon EF Series lenses alone are reason enough to choose the EOS System. A venerable blend of world-class optics, microelectronics, and precision manufacturing technologies such as a new SWC (Subwavelength Structure Coating) lens coating for better light transmission and reduced flare, 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 high quality imaging performance.



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 4-stops (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.

HYBRID IS Hybrid Image Stabilizer

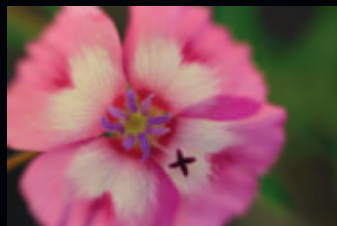
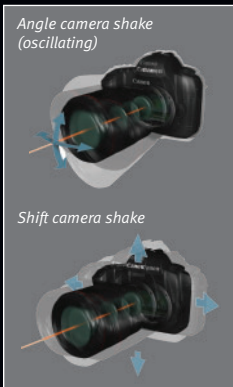
During normal shooting situations, sudden camera movement in rota-

tional camera angles can cause significant image blur. During macro or close-up photography however, the image blur caused by linear camera shake — when the camera moves parallel to the subject — is more pronounced. Optical Image Stabilizer (OIS) is optimized to counteract rotational or angular camera shake and works well for most camera shooting situations. To help compensate for linear camera shake, a new acceleration sensor was required, the Hybrid Image Stabilizer.

Canon Hybrid Image Stabilizer technology, found in the **EF 100mm f/2.8L Macro IS USM**, employs a highly sophisticated algorithm combining the feedback of both the acceleration sensor and angular velocity sensor found in current OIS technology. This combination moves the image stabilizer lens elements, effectively compensating for both rotational and linear camera shake. Hybrid IS dramatically enhances the effects of Optical Image Stabilizer, especially during macro shooting. The incorporation of Hybrid IS allows users to more effectively compensate for camera shake during close-up shooting, marking a significant improvement in macro photography for portrait, nature or wedding shoots.

L-Series Lenses

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.



Taken with EF 100mm f/2.8L Macro IS USM with Hybrid Image Stabilizer

Diffraction 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 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

Super Telephoto Lenses — Distinguished by their white color and seen at major sporting events around the world, the powerful EF Super Telephotos are ideal for getting up-close detail from afar. The latest additions to the EF Lenses line-up, the **EF 800mm f/5.6L IS USM** and **EF 200mm f/2L IS USM** feature dust and water resistance, Optical Image Stabilizer technology for up to 4-stops of shake correction and magnesium alloy components for further weight

reductions while retaining strength and durability. They both feature fluorite and UD lens elements reducing chromatic aberration for outstanding optical performance. They are also compatible with Extender EF 1.4x II and Extender EF 2x II, for additional power and versatility.

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 different macro lenses for precision, and three screw-on close-up options 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, allowing precise control of depth-of-field even at large 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.



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.

Wireless Auto Flash 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 II, 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.

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.

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.



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Speedlite 580EX II

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



Speedlite 430EX II

- Excellent build quality, including a metal foot for added strength
- Approx. 20% faster recycling time, compared to the previous 430EX.
- One-touch, quick-lock mechanism for easy attaching/detaching flash from camera.
- Full flash control possible on camera menu, with compatible EOS Digital SLR cameras.
- Virtually silent flash recycle.
- Zoom flash head covers range of 24-105mm; maximum guide number 141 ft./43m at ISO 100



Speedlite Transmitter ST-E2

- Dedicated transmitter to control unlimited number of Slave flashes.
- Speedlites 580EX II, 580EX, 550EX, 430EX II, 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. EF 100mm, f/2.8L IS requires Macrolite Adapter 67).
- 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.



The Power of Wireless Connectivity

As quickly as the digital SLR has become commonplace in the hands of professional photographers and enthusiasts alike, so too has wireless communication between the SLR and external components. The EOS series has a number of dedicated Wireless File Transmitters that keep the camera connected to the wireless world, simply, with tremendous speed. Whether connected through a port on the side of the camera or incorporated into a camera-integrated design, Canon Wireless Transmitters can connect and have two-way communication with computers and handheld devices.



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Canon Wireless Transmitter Technology

Canon Wireless Transmitters can, wirelessly and quickly, connect to Local Area Networks (LANs) up to 500 feet and connect and upload to FTP (File Transfer Protocol) or dedicated WFT (Wireless File Transfer) servers. In HTTP mode, up to three separate computers, anywhere in the world, can access a camera's memory card with the WFT using a standard web browser (Microsoft Internet Explorer™, Apple Safari™, etc.). Images can be selected from the browser window and dragged onto a computer's desktop or to a

folder, which copies the full file to the computer. EOS Utility connectivity allows the photographer to connect a single camera to a computer for advanced two-way communication. WFT controllers can also connect through USB or Bluetooth to GPS units, and have coordinates, altitude and time code added to each image's shooting (or EXIF) data. External hard drives can be attached for direct recording or backup. Plus, select WFT models can be used as remote control receivers, allowing for wireless shooting and control, from a range of web-enabled handheld devices — even iPhones and the iPod Touch.



Wi-Fi & WPS

Connecting the camera to a network over Wi-Fi with a Wireless Protected

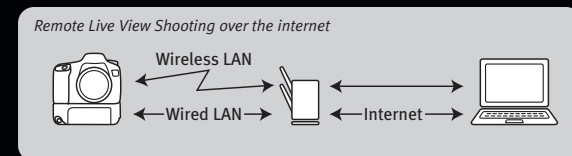
Setup (WPS) couldn't be simpler. There are three ways to connect a WFT equipped EOS with a Server: With a push button configuration (PBC Method), the photographer selects WPS on the camera and pushes the wireless LAN terminal's WPS button to make the connection. With the WPS Pin Method, the photographer selects WPS (Pin Method) on the camera and an 8-digit identification number is assigned and sent to the LAN terminal. Once confirmed, the secure connection is complete. Finally, a WPS can also be set up with a connection wizard. The photographer selects the "wizard connection" on the camera's menu, selects a Wireless LAN terminal, sets an encryption key and then enters it for a wireless connection.



WFT setting display

File Transfer & FTP WFT

With a WFT and an FTP server, wireless remote live view shooting is possible over the Internet, making it possible to setup, shoot and save from a remote location. Meanwhile, through an Internet browser, the camera's Live View image can be seen, settings can be confirmed and changed, shots can be taken and images can be recorded on the camera and computer simultaneously.

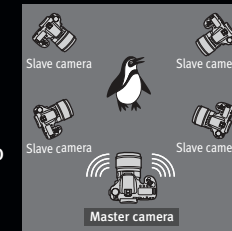


Media Server (DLNA)

Many Canon WFT devices are compatible with DLNA (Digital Living Network Alliance) compliant devices. With a WFT attached, the Digital EOS can create a dedicated DLNA media server, allowing numerous points of access to images, instantaneously and wirelessly. This means that not only can media recorded on the EOS be uploaded wirelessly to a computer; they can also be viewed through DLNA compatible audio systems, televisions, Digital Video Players, even networked media players.

Camera Linking

A new feature available on WFT transmitters, WFT-E2 II A*, WFT-E4 II A and WFT-E5A, camera linking makes it possible for up to 10 cameras to shoot the same subject simultaneously, from different angles. Without a Wireless Access Point, up to 10 cameras can be connected and set up to take a shot the instant the shutter is released on the Master (main) camera. With an effective distance of 150 meters, this linked shooting is invaluable for the best possible capture of sports, news and wildlife and other quickly moving subjects that can be shot from a number of angles.



Arranging the slave cameras

Bluetooth, USB (GPS)

Whether connected by Bluetooth or through USB, GPS devices can be connected to Canon WFT transmitters to transmit location and elevation data along with the EXIF data for each image. With Bluetooth connections, photographers can enjoy all of the benefits of GPS units without the concern of tangled wires interfering while shooting, and can connect directly to Bluetooth compatible printers. With USB, not only are GPS connections possible, it's also easy to connect an external Hard Drive for direct recording or backup.

EOS Utility Mode

With EOS Utility (previously known as PTP), photographers can pair their camera and a computer to remotely configure camera settings, do wireless Live View com-



Remote Capture display

posing and shooting and complete image transfer with a direct wireless connection independent of a network or Internet connection. Perfect for shooting wirelessly in remote locations and for dedicated, secure connections within the studio, EOS Utility mode is a useful alternative to networked wireless shooting.

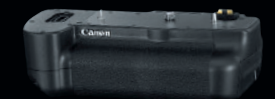
Wireless File Transmitter WFT-E2 II A*

Compatible with the EOS-1D Mark IV and the EOS-1Ds Mark III (after a Firmware upgrade), the compact new WFT-E2 II A connects directly to the camera. It's IEEE802.11 a/b/g compatible for fast communication, and works with WPS setups, the hyper-sophisticated Canon Camera Linking Function and enables WFT Server Remote Live View shooting. It can be a dedicated Media Server, plus has Bluetooth and USB built in for connections to GPS units and more. Designed to mount directly to the side of the compatible EOS camera, it maintains the integrity of all weather-resistant seals and the rugged durability of the camera while affording access to all the camera's buttons and controls.



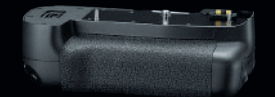
Wireless File Transmitter WFT-E4 II A

Built for the Canon EOS 5D Mark II, the new WFT-E4 II A not only provides wireless functions, it's also a fully operational camera grip offering a full array of buttons for seamless vertical shooting. The WFT-E4 II A offers fast IEEE802.11 a/b/g connectivity, is perfect for wireless camera linking and syncing, and is WPS and Bluetooth compatible. It can be a wireless media server, plus a remote Live View shooting server.



Wireless File Transmitter WFT-E5A

Designed not only as a fully-functioning dedicated grip with shutter release for the EOS 7D, the New WFT-E5A is also an IEEE802.11 a/b/g compatible wireless communication device offering the latest in wireless photographic shooting. It's compatible with Wireless Protected Setups (WPS), Wireless File Transfer Remote Live View and with Media Servers. It can serve as a Master or as a Slave unit during camera linking.



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

Digital Solutions for Professionals

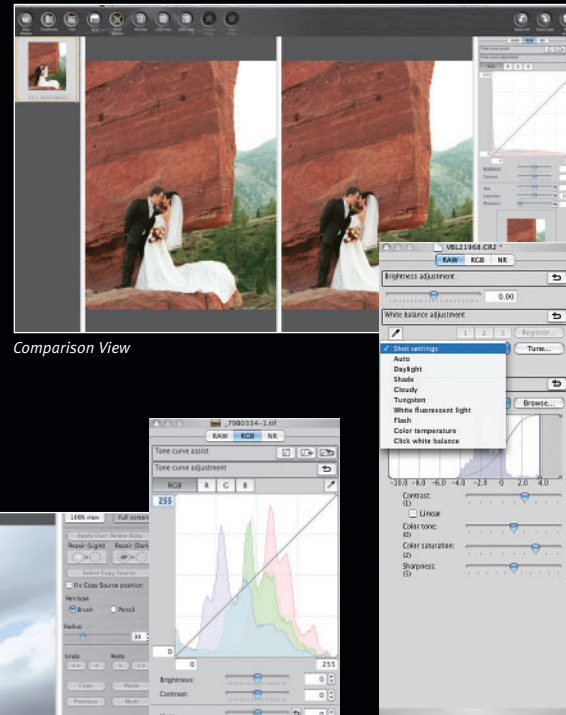
Professional Software Tools — Digital cameras capture images as digital data. Digital photography, therefore, benefits from computer software designed to enhance capture, processing and output. The Canon EOS System embraces a wide range of powerful software tools that provide advanced functions to aid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



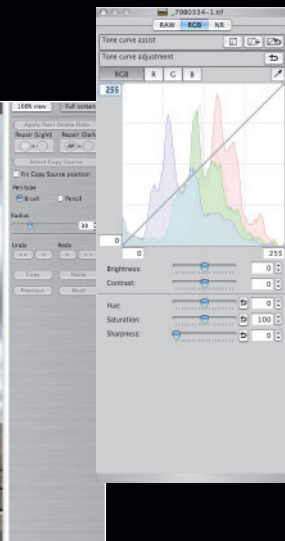
Large Thumbnails View



Stamp Tool

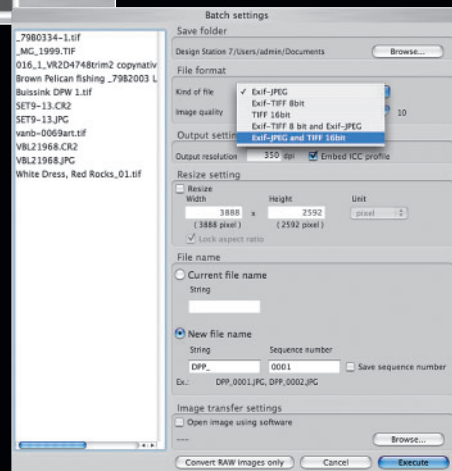


Comparison View



Tone Curve Adjustment Toolbar

Picture Style



Batch Processing Window

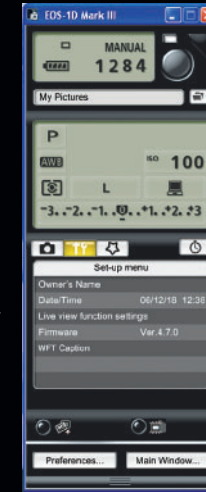
Digital Photo Professional

Canon Digital Photo Professional is a RAW image processing application featuring an innovatingly 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, lens aberration correction tools, noise reduction, a navigation tool, CMYK printer simulation, batch conversion, multiple image download and image transfer to other photo applications.

Live View Function

The EOS-1Ds Mark III, EOS-1D Mark IV, EOS 5D Mark II, EOS 7D and EOS 50D 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-E2 II A*, WFT-E2A, WFT-E4 II A, WFT-E4A, WFT-E5A 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.



Original Data Security Kit OSK-E3

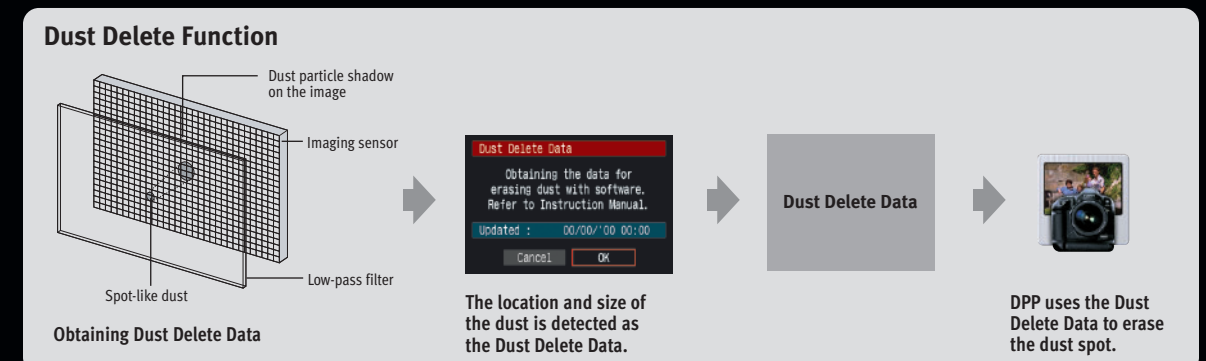
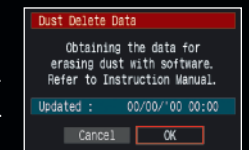
Canon's advanced data verification hardware/software kit consists of a USB card reader/writer, a dedicated Original Data Security Card, and software to be installed on a Windows computer. The system can verify the originality and integrity of image data. It can also identify specific data elements (image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



A feature in this version is encryption capability.*** Photographers can 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 white card at infinity focus, the photographer can acquire data identifying the position of any dust particles on the sensor surface. This data is 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.



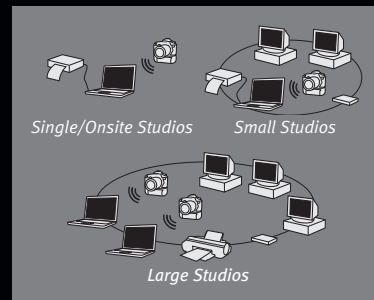
* This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not, be offered for sale or lease, or sold or leased, until authorization is obtained. ** With no obstructions between the transmitting and receiving antennas, and no radio 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 IV cameras only.

Canon Studio Solution



Canon's Studio Solution combines the functions of many of the separate software applications typically used in a professional photo studio into a single, easy-to-use workflow application. Integrating all of your Canon hardware, image files, customer and business data, and studio management tools, your daily operations are all simplified and largely automated. Customer, employee

and image information are maintained in a central database for easy access and seamless integration. At every step along the way, Canon Studio Solution gives you full control while enabling you to build a seamlessly integrated, highly efficient business. Whether you are a one-person studio running the software on a single laptop computer or a larger enterprise with multiple employees and networked workstations, the workflow is streamlined, easy-to-use and professional, reducing business-related costs while maximizing sales and profit potential. Because the software is server-based, network-friendly and completely scalable, it will work with you as your business grows... enabling you to focus on what's truly important: your photography.



can link family members. A powerful Calendar tool provides numerous useful views of your studio's schedule, while the automatic confirmation call reminder feature makes a calendar entry one day prior to the shoot so that your staff can contact customers to minimize no-shows.



Because Studio Solution keeps track of inventory and sales in addition to customer and employee data, it can generate powerful reports that you can use to analyze and streamline your business. Studio Solution also gives you, as system administrator, complete power over rights and permissions based on the roles you assign to your staff members. In this manner, you can fully control the studio workflow in a networked environment, assigning functionality as required for specific staff responsibilities.

Shooting

Studio Solution enables direct tethered USB capture from your Canon EOS Digital SLR, enabling Live View shooting via a computer monitor, or utilize a completely wireless workflow using a Canon Wireless File Transmitter (operating in FTP server mode) on the camera with a WiFi connection.



You can also transfer image files from the camera by setting up a "hot folder" on your computer or network. Images captured on-location are easily imported into the Studio Solution library using a memory card reader. Imported images are automatically cataloged into the correct folder designated for the customer and job and become an integral part of your database. Studio Solution can then easily archive to hard drives, RAID arrays, servers or recordable media.



Sales and Presentation

Studio Solution's powerful sales presentation tools allow you to convert your images into a profitable order of products and services. Whether in

front of a monitor or viewed with a Canon REALiS projector, slide shows, easily and automatically created in Studio Solution, present your images in the best possible light — in high resolution and with brilliant, accurate color. You can even add background music to enhance the viewing experience.



Studio Solution can even show how your customer's prints will look on different media, like on canvas or a matte surface, and how prints of different sizes might look in a room setting over a sofa or fireplace.

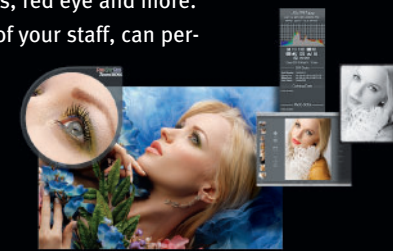
Studio Solution includes a comprehensive collection of attractive borders and templates that you can easily add to your images. You can simply choose one of the many supplied borders or templates, or you can use the Border Workshop, where you can start with an existing border, modify it as desired, then save it to the library for future reuse. Combinations of templates and backgrounds can be used to create value-added items, like sports trading cards or calendars, and multipurpose the captured images.

If you shoot your subjects in front of a green or blue screen, you can use Studio Solution's built-in chroma-keying features to quickly and easily add different backgrounds to your shots.

Retouch

Most image adjustments and retouching, if required, are easily accomplished within Studio Solution using the Photo Workshop and Retouch Workshop tools, where selective and global retouching and cropping can be applied manually or automatically to repair blemishes, red eye and more.

You, or a member of your staff, can perform the most frequently needed corrections and enhancements — including background dropout on



green screen shots — simply and without ever leaving the Studio Solution environment. If more complex work is needed, Studio Solution makes it easy to perform more advanced adjustments via a quick roundtrip visit to and from Adobe Photoshop® (available separately) without ever removing the image from your customer's database.



Delivery

As you add products, services and various packages into the integrated shopping cart, Studio Solution then fully automates the ordering and delivery process for you as well. When using multiple printers, load sharing algorithms are used to make sure all available printers are used in the most efficient manner, avoiding long print job queues whenever possible, and automatically routing specialized orders to the appropriate device. Using Canon imagePROGRAF printers, Studio Solution even adds print nesting capability to effectively minimize the waste of paper, and maximize your profits. Built-in support for and routing to outside output service providers enable you to produce and sell products you cannot fulfill in-house. Studio Solution can then automatically generate and print detailed invoices that include all packages and additional products and services ordered, plus taxes and shipping costs as appropriate.



Studio Solution's easy and intuitive interface simplifies staff training requirements, and the cohesive modules lead you naturally and effortlessly from one step to the next, enabling you to manage a highly efficient, automated, profitable studio. And to ensure fast solutions if a problem does arise, live customer support is available toll-free. No matter the photographic enterprise, Studio Solution is tailor-made to streamline business so that photographers can focus on what they do best: taking pictures.

Knowledge: The Engine of Creativity

To get the most out of your Canon products, Canon has several programs geared to help users evolve and advance their skills. Seasoned professional photographers and videographers share their experiences and give tips on not only hardware, such as cameras and lenses, but also on techniques, composition and quick rules of thumb to make sure your images have a sleek, professional-looking polish.



Canon Digital Learning Center

For in-depth information and examples of the best of Canon EOS digital photography and video, there is nothing like the Canon Digital Learning Center (CDLC). A free, online photography resource,

the CDLC website celebrates the art and science of photography with a growing collection of video tutorials, instructional articles, interviews, Canon product information, contests and much more! Presented from the photographer's perspective, the tips, techniques and galleries at the CDLC will educate and inspire. It's worth a visit, whether you're new to the EOS system or a veteran user: usa.canon.com/dlc.

The **CDLC Home Page** is your starting point to an entire world of ideas, information and useful tools that support your creativity.

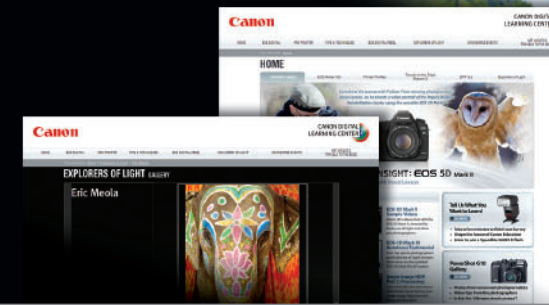
Interviews and Shooter's Insight pages show you — through pictures, words and video — how professionals interface with their equipment to achieve unique results.

The **Explorers of Light Gallery** section gives you A to Z access to the world's leading photographers, videographers and filmmakers, their biographies and inspiring samples of their work.

The **Product Pages** provide educational resources on the components of the EOS, pro printing and pro video systems, organized by category to help you quickly find what you're looking for.

Tips & Techniques are written by experienced experts from around the globe to help you get the most from your EOS camera and system accessories.

Check out the **Sponsored Events** calendar and make plans to attend shows, seminars, lectures and hands-on workshops that will broaden your horizons.



Canon Live Learning

A new on-site education program,

Canon Live Learning (CLL) is targeted towards photographers, videographers and film professionals who currently use or are interested in Canon EOS, pro printing and pro video products. Offering high-quality classes and workshops conducted by the industry's leading professional photographers and film professionals, including Canon Explorers of Light (EOL), programs are offered in several formats:

EOS Immersion Seminar and Workshops deliver technical knowledge that enthusiasts need to realize their creative photography potential; **EOS Destination Workshops** are EOL-led intensive weekend field workshops; **New for 2010, Canon Cinema Caravan and EOS Moving Image Workshops** are intensive two and three-day EOS HD-oriented workshops for professional photographers, videographers and film professionals. Workshop and seminar information is available online at:

usa.canon.com/canonlivelearning

Sponsored Events

For photographers looking to expand their creative and technical capabilities through hands-on training, Canon sponsors independent seminars and other educational events held across the nation. These events include lectures and workshops held by Canon Explorers of Light as well as an assortment of other events to help you get the most out of your EOS Digital SLR. Check the Educational Events calendar on the CDLC for an event close to you!

EOS Discovery Day provides basic and intermediate level instruction for EOS DSLR owners. In addition to detailed instruction on fundamental camera operation, the training

also covers helpful general photography topics and important digital basics, including printing. The course content makes

heavy use of images to clearly explain and promote better understanding of key messages. Question and answer periods and hands-on demonstrations are included. For complete information and schedules, visit: usa.canon.com/discoveryday



Canon Publication

This in-depth guidebook helps professionals understand and find innovative solutions to many issues faced by photographers today.

The Imaging Systems Integration Guidebook

The Imaging Systems Integration Guidebook presents inside tips and techniques from the photographer's perspective. It is filled with examples of how today's most successful



professional photographers use Canon EOS System components and imaging tools to great advantage. Read about the different ways in which world-class photographers put the system to work to deliver the remarkable images that keep them at the top of their professions.

Professional Services



When a professional Image Maker needs support... Canon

Professional Services is there. Offering Professional Support for the Working Professional, members can look to the CPS program for almost any need that presents itself. Members can expect hotline phone support, equipment evaluation loans, expedited and discounted service on repairs, access to Canon Pro Market Reps, onsite support at select shows and events and more. Canon Professional Services provides the support you need, when you need it. The CPS program features three levels of membership, offering a range of benefits tailored to your needs.

At the complimentary Silver level, you will receive:

- Access to the CPS member hotline phone support, giving you quick and easy access to Canon authorized representatives that can answer questions and help you with membership questions, repair issues and technical advice.
- 20% discount on the cost of a repair.
- Expedited turnaround time on the length of your repair, as a professional Canon understands the importance of getting your equipment back to you quickly.

If you qualify for the Gold level (\$100.00 membership fee), you will receive:

- Access to the same CPS exclusive hotline
- Equipment evaluation loans – (Try before you buy). Subject to equipment availability
- 30% discount on your repairs
- Expedited 3 day turn around on the length of the repair



- Access to service loaner equipment if your repair exceeds 3 days.
- 2 free clean and check service coupons
- Discounted admission to Canon Live Learning seminars and workshops

At the Platinum level (\$500.00 membership fee), you will receive the benefits included in the Gold level with:

- Priority access to the pool of evaluation equipment.*
- An unheard of 60% discount on the cost of your repairs.
- Expedited 2 day turn around on the length of the repair
- Service loaner equipment available upon receipt of your equipment
- 6 Free clean and check service coupons.

* Subject to equipment availability.

Whether by telephone, in person, or via email, CPS simply makes it faster for working professionals to get the support they need.

Find out more at usa.canon.com/cps

CANON SERVICE & SUPPORT

Canon has built its reputation as an industry leader in product reliability, service and support. No matter what Canon consumer imaging product you buy, expect a top rate experience. From our cutting-edge technology to industry-leading response times for service and support, Canon U.S.A. strives for complete customer satisfaction in everything we do.

- 100% US-based support operation with a dedicated pro support team ready to assist the unique needs of our customers.
- Canon factory-trained technicians to achieve industry-leading response time and quality of repair.*
- State-of-the-art technology and facilities to meet Canon's rigorous performance standards, including a climate and particulate controlled clean environment* and a precision lens center to accommodate the adjustment of professional lenses.
- Customized service and support offerings for professionals, including Canon Media Maintenance Service and the Canon Professional Services program.
- Environmentally responsible service operations include our Zero Landfill Product Recycling Policy.*



* For consumer imaging products only.

www.usa.canon.com/satisfaction
1-800-OK-CANON



Miami Herald

Canon Media Maintenance Service

Canon Media Maintenance Service (CMMS) offers professional photographers at select newspapers and magazines the personalized attention that their business requires. A team of highly trained, dedicated Canon Field Support Engineers and CPS Pro Representatives provide an enhanced level of on-site maintenance and support either annually or semiannually.

All camera equipment is cleaned and thoroughly examined. Minor repairs are performed on the spot, and recommendations are made for equipment in need of critical attention. Firmware is updated on all cameras, providing current equipment with the latest advancements in capability and connectivity. Serial numbers and shutter counts are cataloged for reference and photographers have the unique opportunity to discuss shooting concerns and offer their opinions about Canon products. By providing both regular, intensive maintenance and attention to specific concerns, CMMS is a great advantage and convenience for management and individual photographers alike.

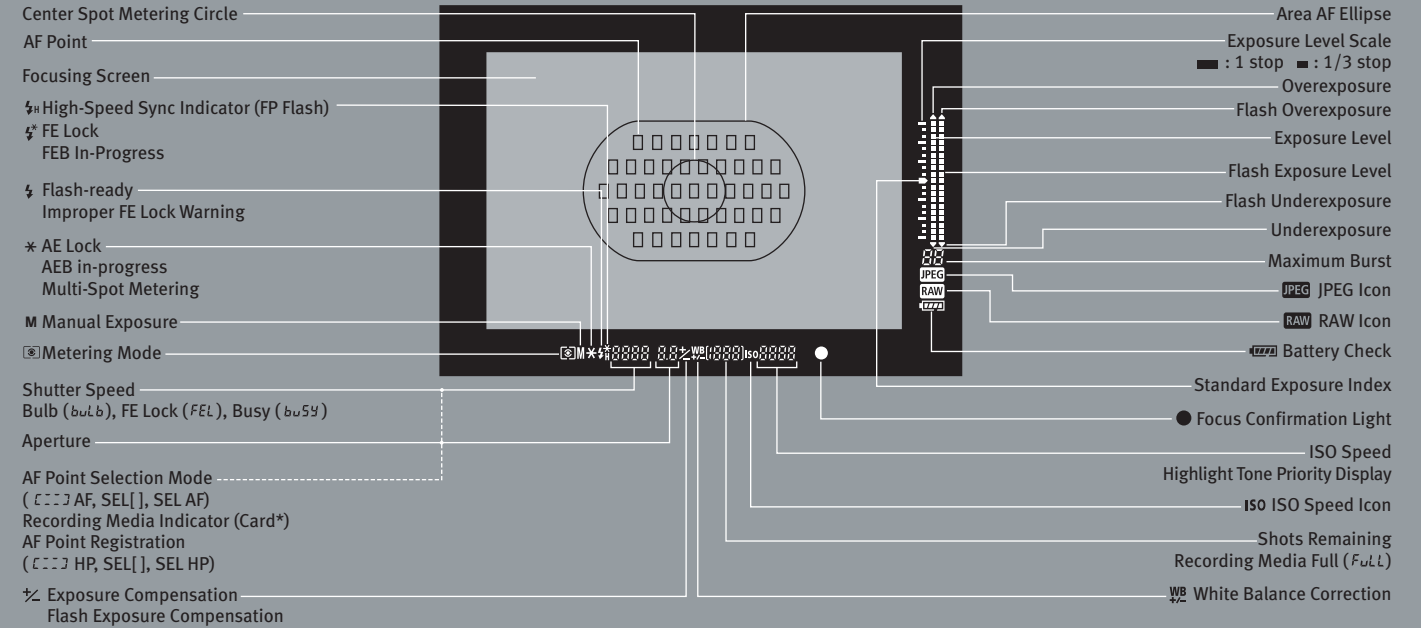


Los Angeles Times

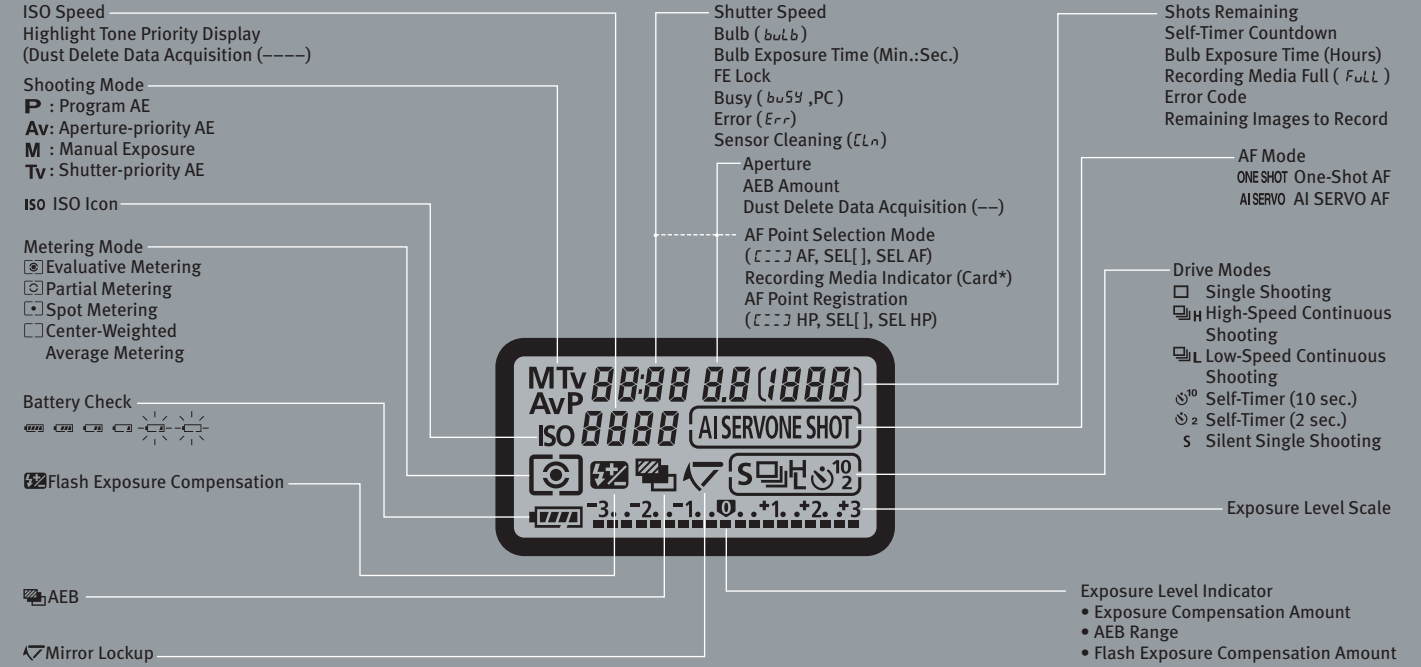
Nomenclature for EOS-1Ds Mark III



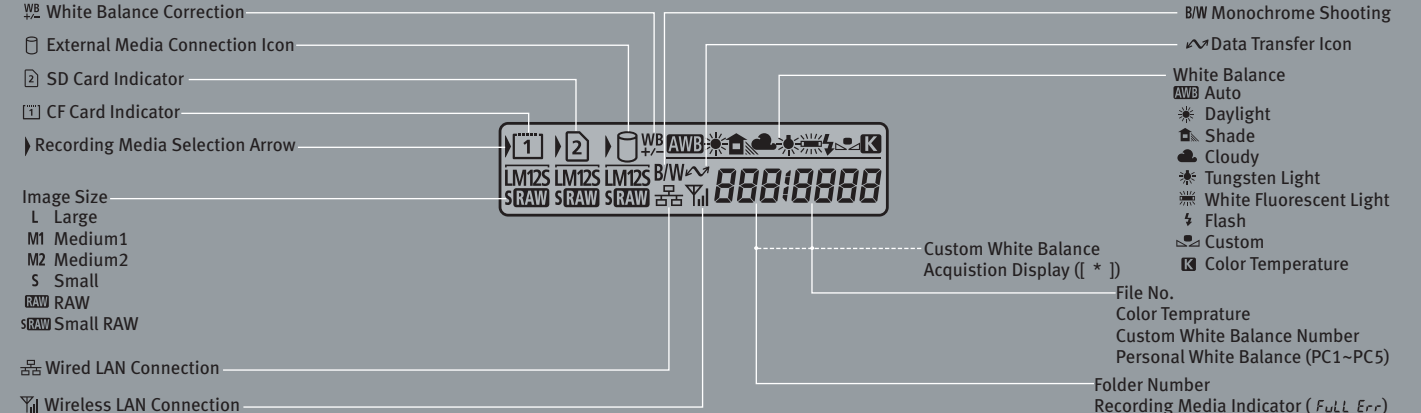
Viewfinder Information



Top LCD Panel Information



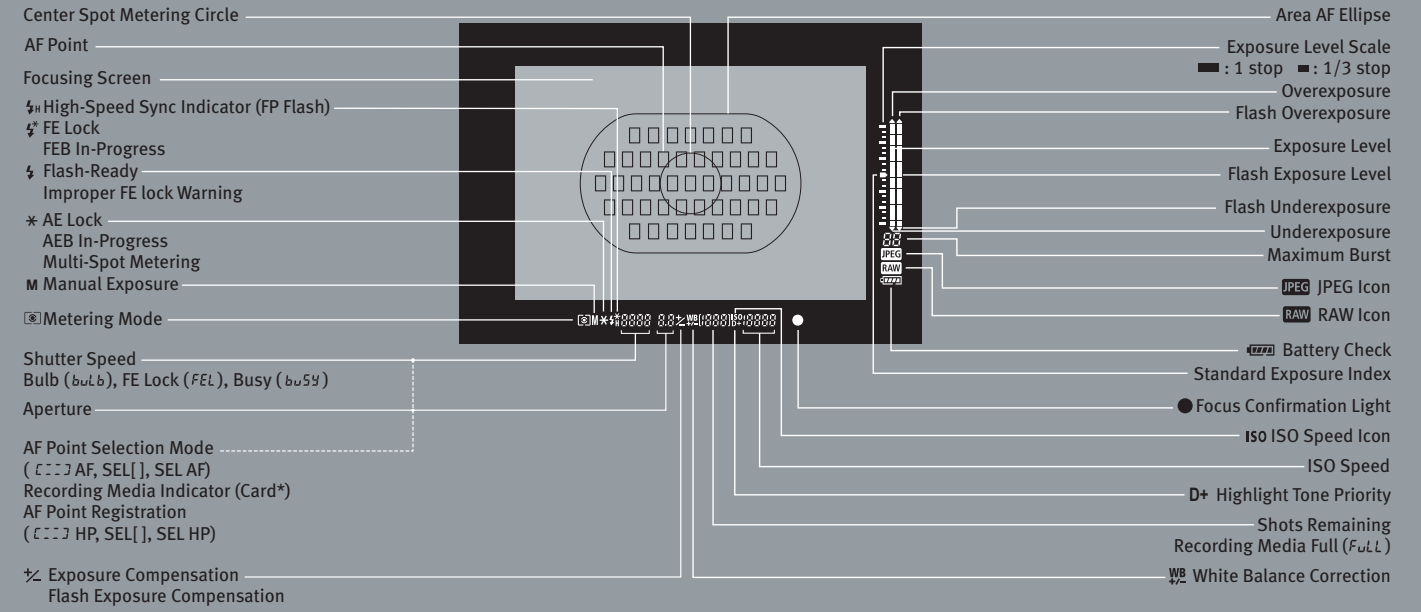
Rear LCD Panel Information



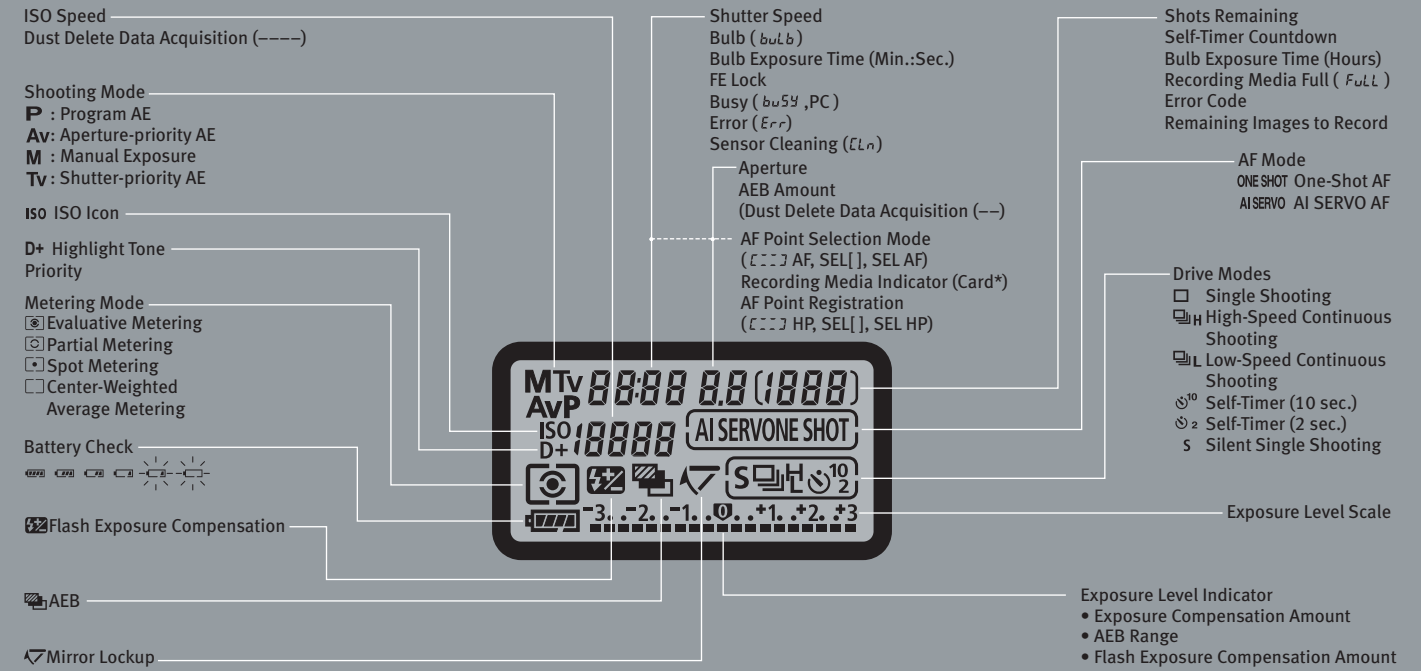
Nomenclature for EOS-1D Mark IV



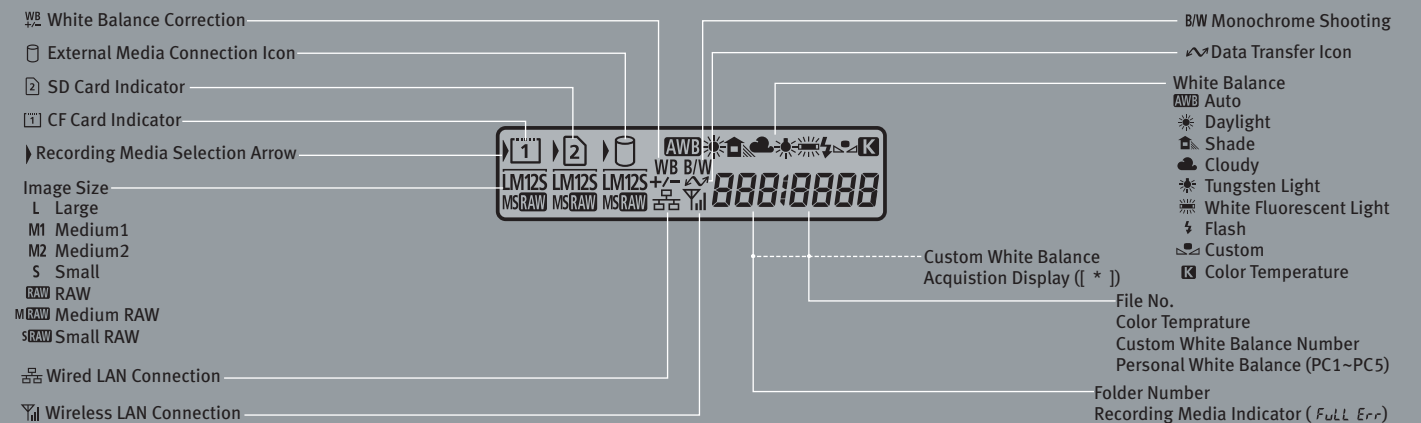
Viewfinder Information



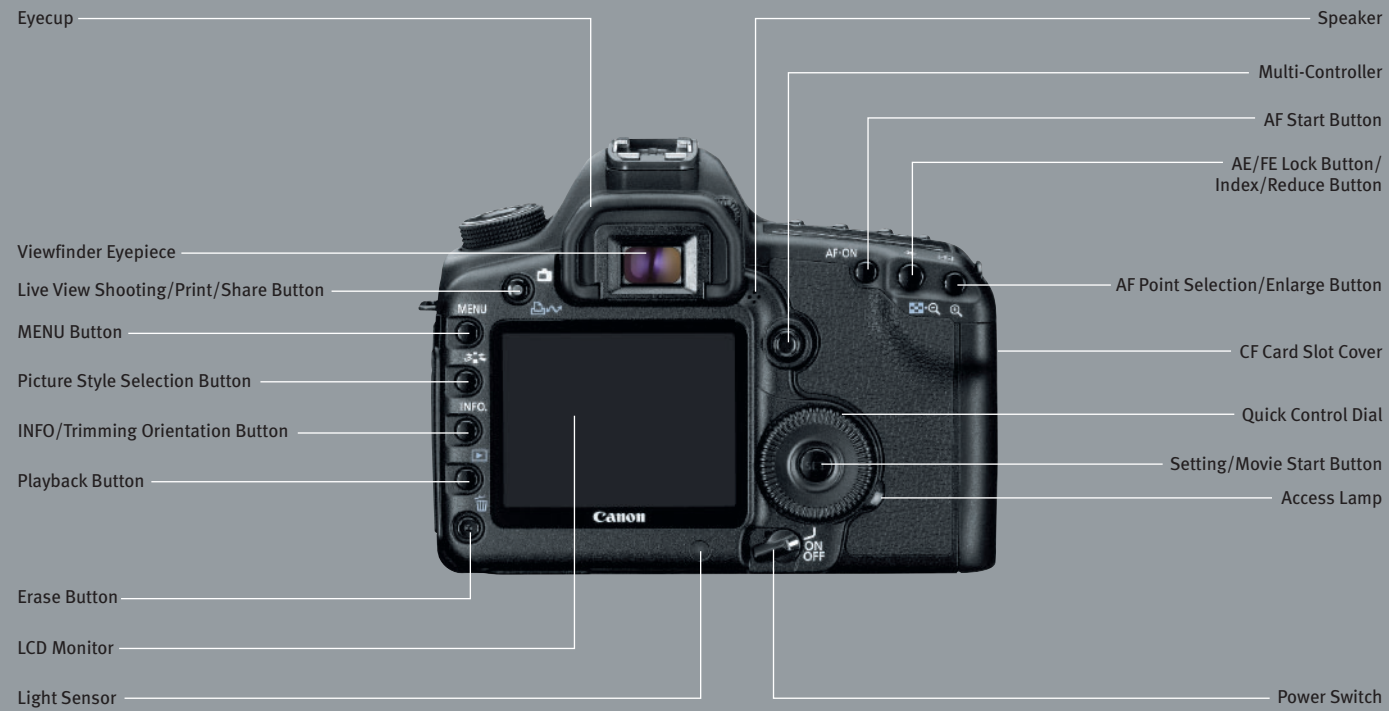
Top LCD Panel Information



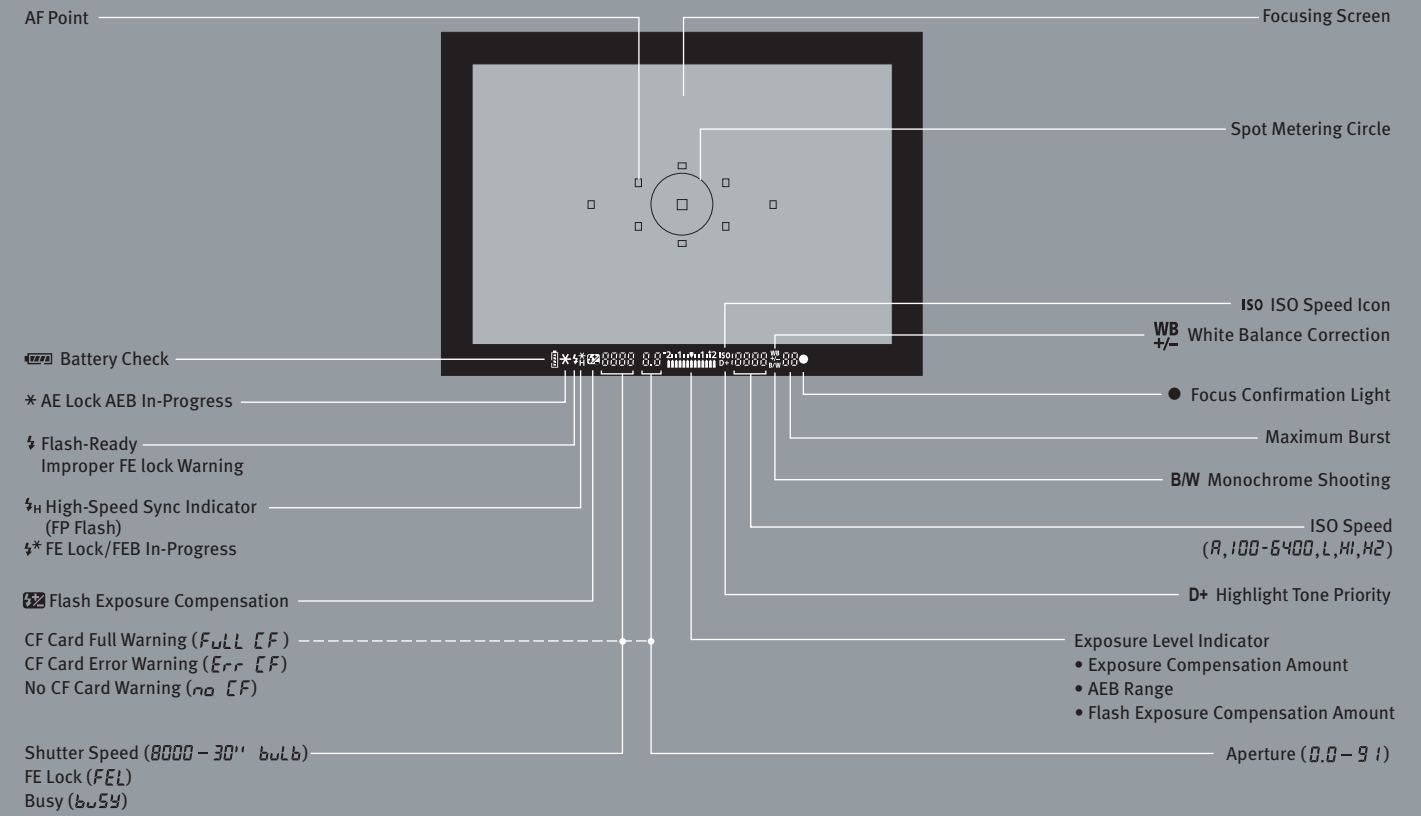
Rear LCD Panel Information



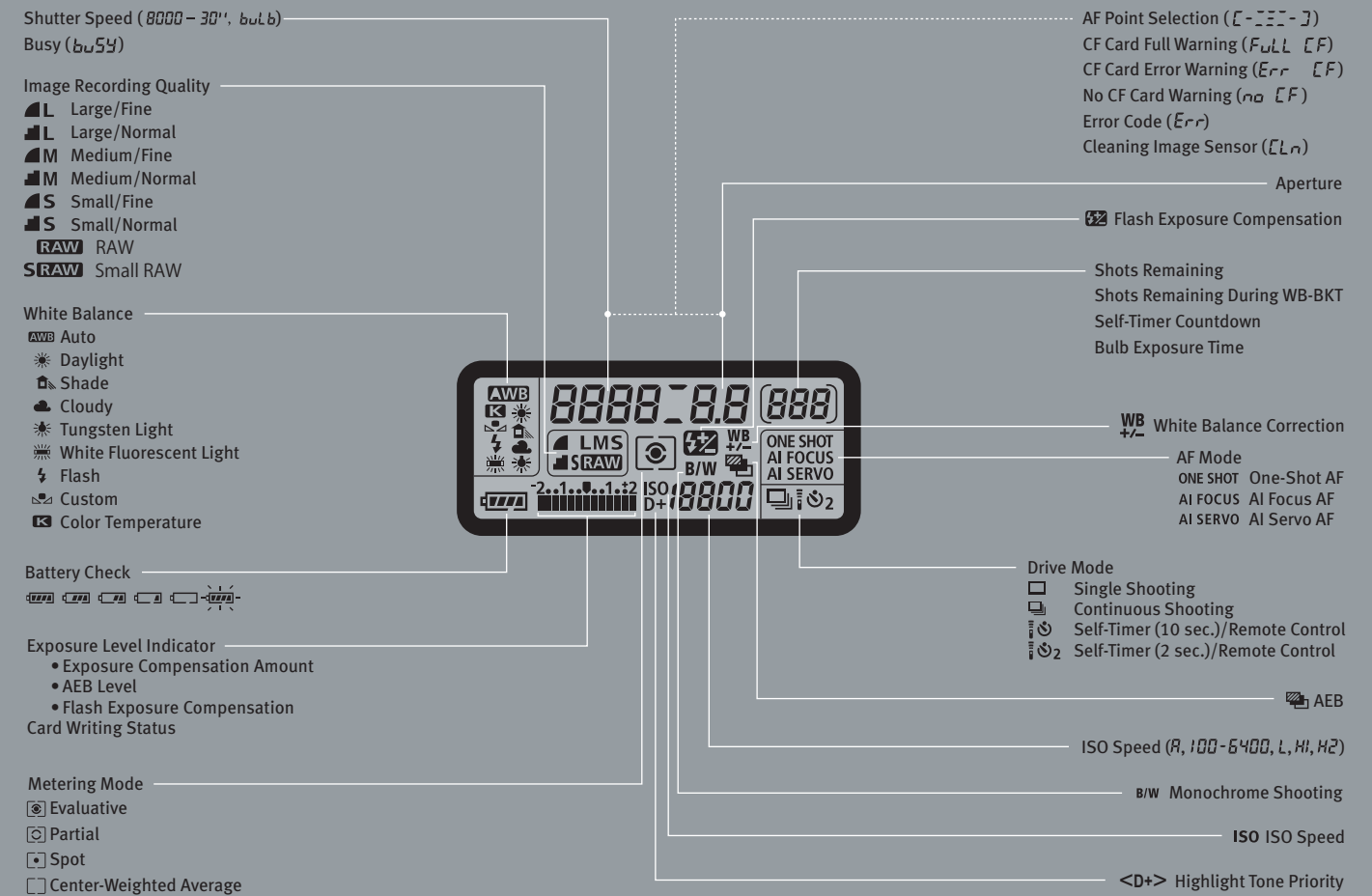
Nomenclature for EOS 5D Mark II



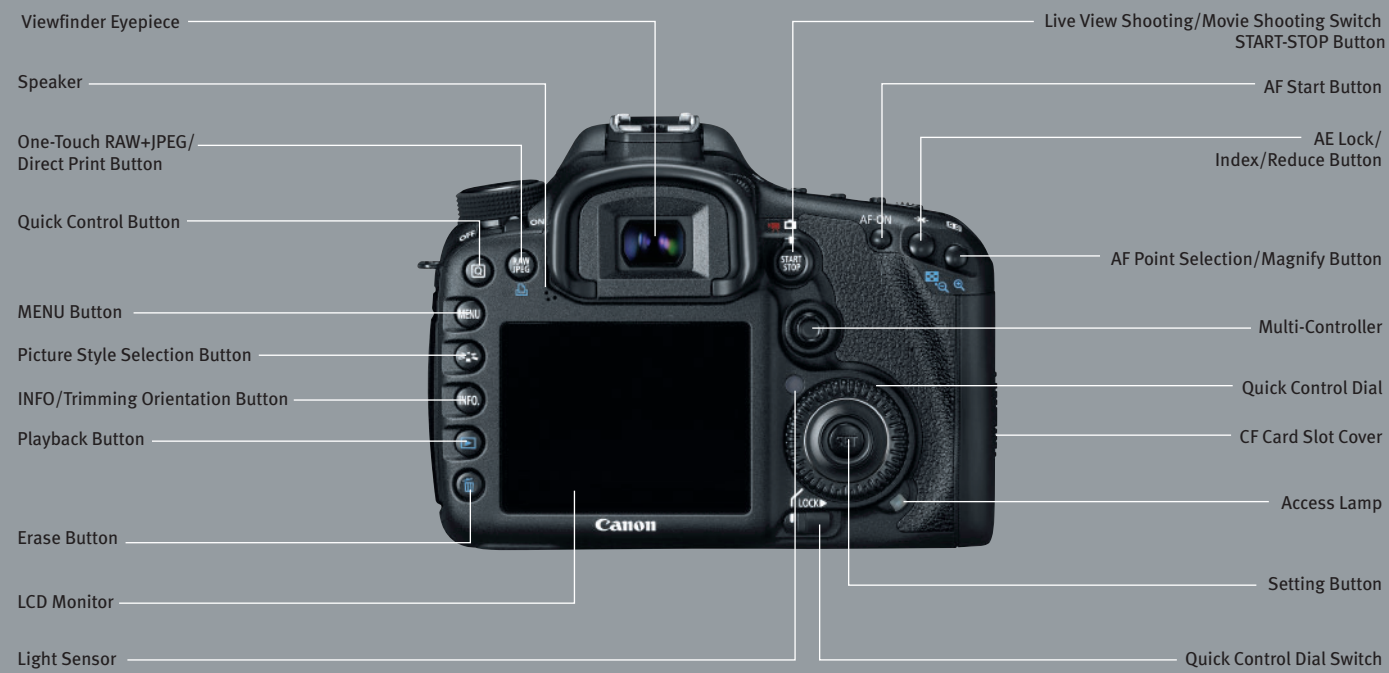
Viewfinder Information



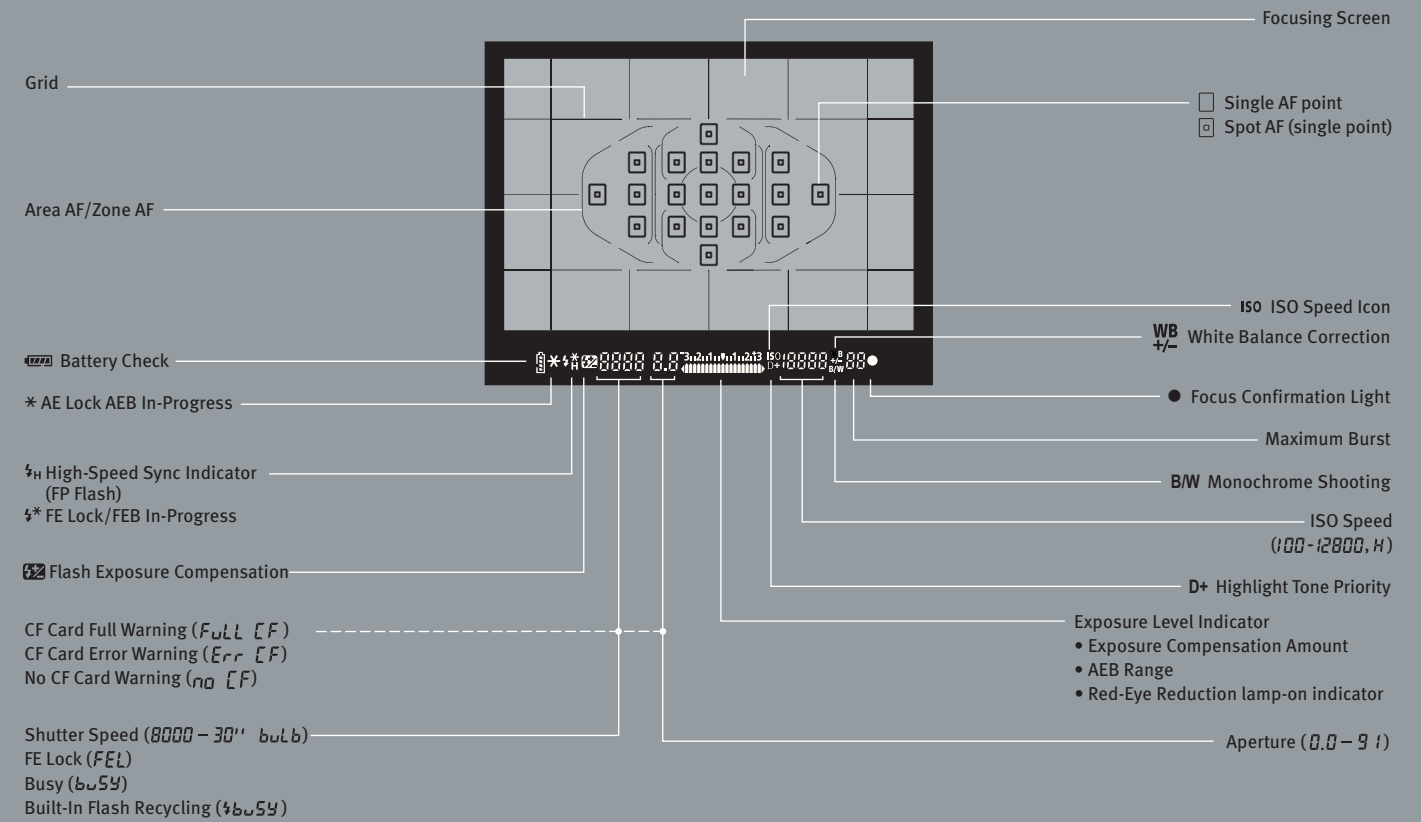
Top LCD Panel Information



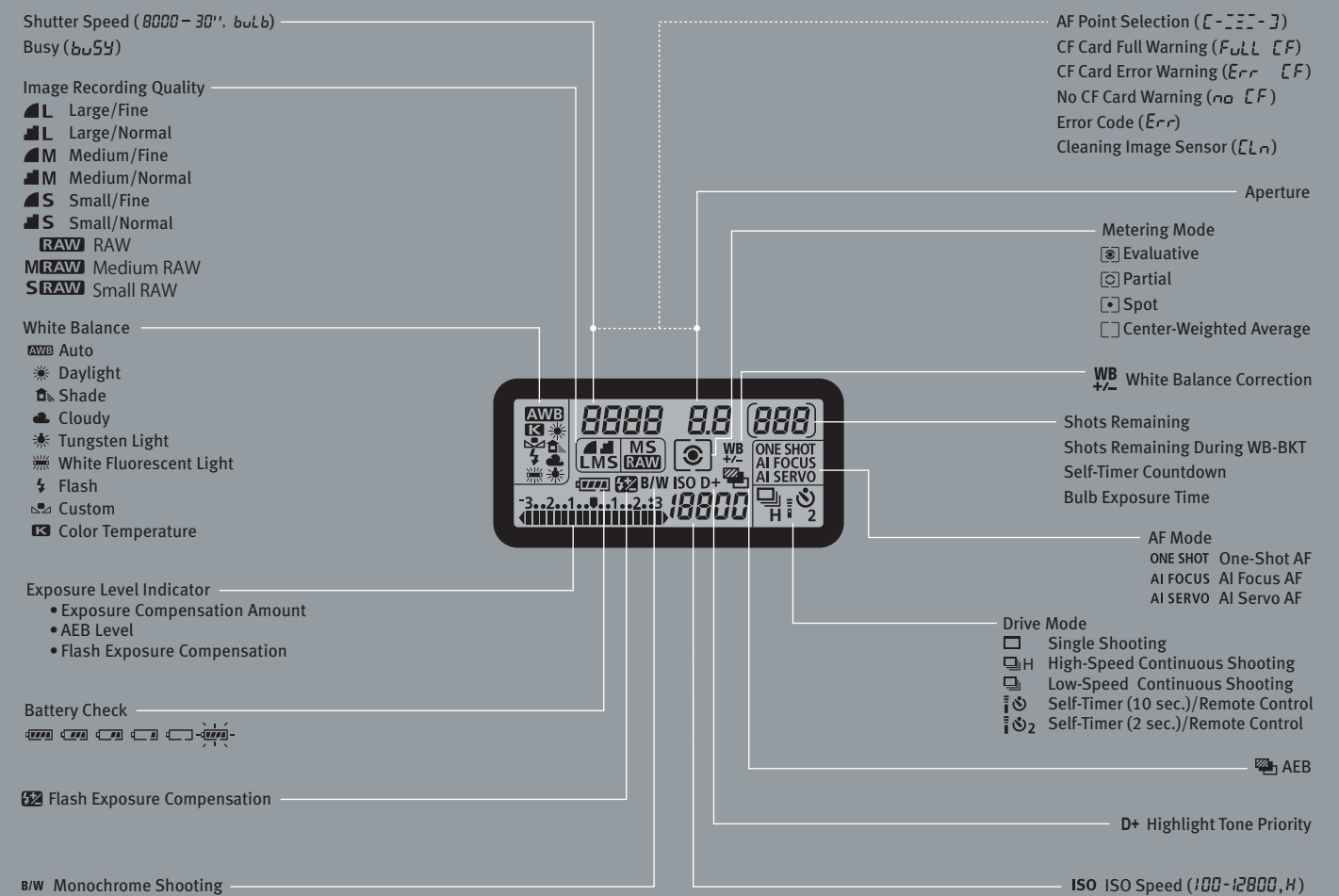
Nomenclature for EOS 7D



Viewfinder Information



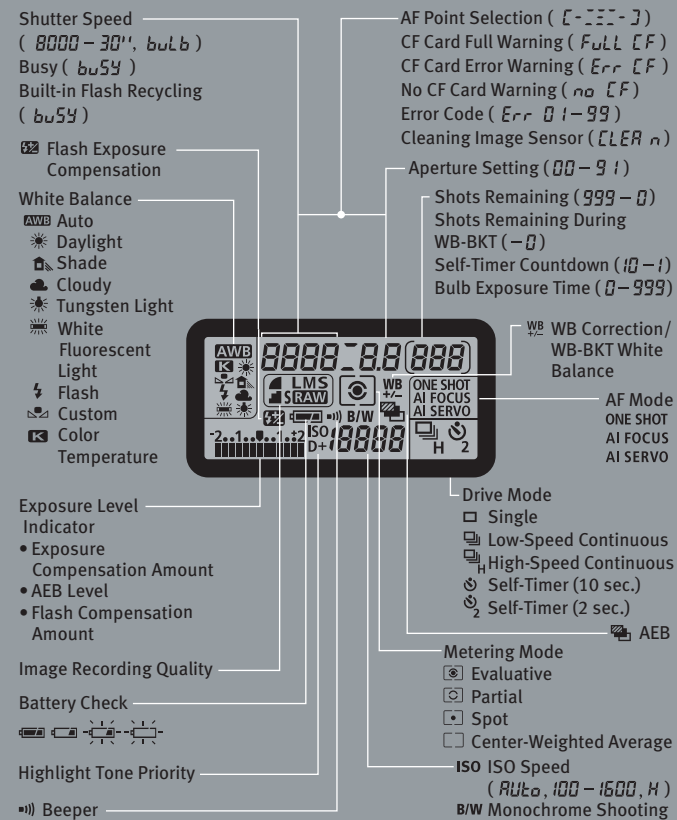
Top LCD Panel Information



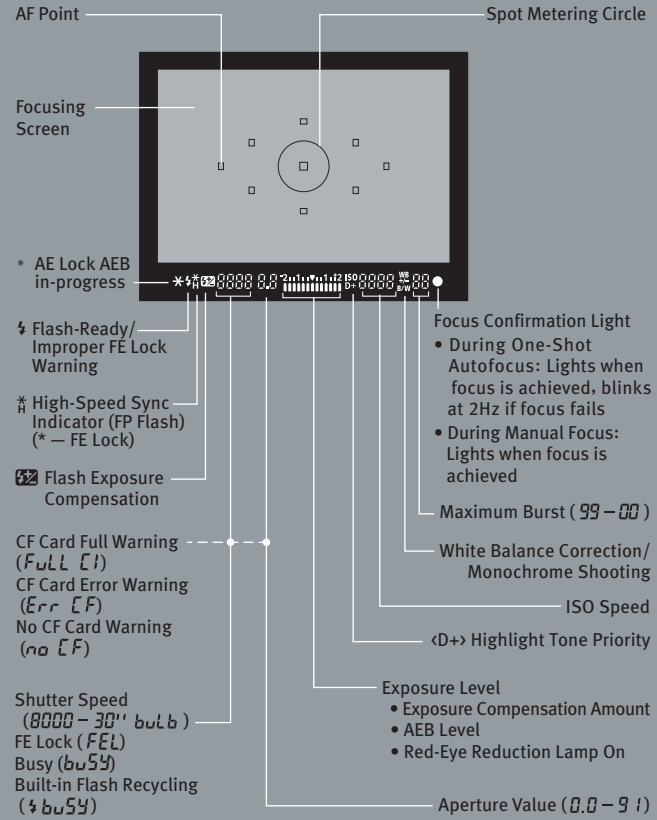
Nomenclature for EOS 50D



Top LCD Panel Information



Viewfinder Information



EOS-1Ds Mark III Custom Function Chart

Custom Function	Function Description	No.	Setting
C.Fn I: Exposure			
1	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
2	ISO speed setting increments	0	ISO set in 1/3-stop increments
		1	ISO set in 1-stop increments
3	Set ISO speed range	-	Disable (camera ISO range 100-3200)
		Register	Enable (apply user-registered available ISO range)
			Set highest ISO (1-stop increments) up to "H"
			Set lowest ISO (1-stop increments), "L" thru 1600
4	Bracketing Auto Cancel	0	On (AEB cancels if camera turned off, etc.)
		1	Off (AEB remains in effect unless flash turned on)
5	Bracketing sequence	0	0 → - → +
		1	- → 0 → +
		2	+ → 0 → -
6	Number of bracketing shots	0	3 shots
		1	2 shots
		2	5 shots
		3	7 shots
7	Spot metering link to AF point	0	Disable (spot metering always at center)
		1	Enable (spot metering at manually selected AF pt.)
		0	Disable
8	Safety Shift	1	Enable (Tv/Av modes)
		2	Enable (ISO speed shifts, in P, Tv, Av modes)
9	Select usable shooting modes	-	Disable (all exposure modes available)
			Enable (only modes registered are selectable)
		Register	M P Tv BULB Av Apply
10	Select usable metering modes	-	Disable (all metering patterns available)
			Enable (only metering modes registered are selectable)
		Register	☐ ☐ ☐ ☐ ☐ *
			Apply
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
12	Set shutter speed range	-	Disable
		Register	Enable (apply user-registered range)
			Highest speed: 250-8000 Lowest speed: 30"-60 Apply
13	Set aperture value range	-	Disable (use lens's full aperture range)
		Register	Enable (apply user-registered aperture range)
			Min. aperture (Max. f): 1.4-9.1 Max. aperture (Min. f): 1.0-64 Apply
14	Apply shooting/Metering mode	-	Disable (no switching to registered settings)
		Register	Enable (Press "*" button to switch settings) With AE lock button (AF on) With AE lock button (AF off)
15	Flash sync. speed in Av mode	0	Auto (shutter speed set based on ambient light)
		1	1/250 sec.
C.Fn II: Image/Flash exp/Display			
1	Long exp. noise reduction	0	Off
		1	Auto (camera decides whether to apply reduction)
2	High ISO speed noise reduction	0	Off
		1	On (noise reduction applied; 1 sec. and longer only)
3	Highlight tone priority	0	Disable
		1	Enable
4	E-TTL II flash metering	0	Evaluative flash metering
		1	Average flash metering over all 63 metering zones
5	Shutter curtain sync.	0	1st-curtain synchronization
		1	2nd-curtain synchronization (EOS Speedlites only)
6	Flash firing	0	Enable
		1	Disable - AF assist beam continues to operate
7	Viewfinder info. during exp.	0	Disable
		1	Enable (viewfinder info visible during bursts)
8	LCD panel illumination during Bulb	0	Off
		1	On during Bulb
9	INFO button when shooting	0	LCD monitor Displays camera settings
		1	LCD monitor Displays shooting functions
C.Fn III: Autofocus/Drive			
1	USM lens electronic MF	0	MF possible after One-shot AF completed
		1	Disable after One-shot AF
2	AI Servo tracking sensitivity	0	Disable completely in AF mode
		-	Slow: -2, -1, 0, +1, +2: Fast
3	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
4	AI Servo AF tracking method	0	Main focus point priority
		1	Continuous AF track priority (ignores closer objects)
5	Lens drive when AF impossible	0	Focus search on
		1	Focus search off
6	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
6	(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)
7	AF Microadjustment	1	Adjust all by same amount
		2	Adjust by lens
		0	Forward: -20 0 +20 Backward
8	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)
9	Selectable AF point	0	19 points
		1	Inner 9 points
		2	Outer 9 points
10	Switch to registered AF point	0	Disable
		1	Enable
11	AF point auto selection	0	☐ direct: disable / ☐ : enable
		1	☐ direct: disable / ☐ :disable (auto AF select mode impossible to access)
		2	☐ direct: enable / ☐ : enable
12	AF point display during focus	0	On (red illumination on)
		1	Off
13	AF point brightness	0	Normal
		1	Brighter
14	AF-assist beam firing	0	Enable (Speedlite's AF assist beam fires normally)
		1	Disable
15	Mirror lockup	0	Disable
		1	Enable (mirror lowers after each shot)
16	Continuous shooting speed	-	Disable (shoots at default fps rates)
		Register	Enable (applies user-registered fps rates)
			High speed: 5.4, 3.2 fps Low speed: 1, 2, 3, 4 fps Apply
17	Limit continuous shot count	-	Disable
		Register	Enable Limited shots: 99-2 Apply
C.Fn IV: Operation/Others			
1	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
2	AF-ON/AE lock button switch	0	Disable
		1	Enable (reverse role of AEL and AF-on buttons)
		0	Disable
3	Quick Control Dial in meter	0	Exposure comp/Aperture
		1	AF point selection (instant AF point access with rear dial)
		2	ISO speed (instant ISO access with rear dial)
		0	Normal (disabled)
		1	White balance
		2	Image size
		3	ISO Speed
4	SET button when shooting	4	Picture Style
		5	Record func. + media/folder
		6	Menu display
		7	Image playback
		0	Tv= / Av=
		1	Tv= / Av= (reverse functions in M mode for top/rear dials)
		0	Normal
6	Dial direction during Tv/Av	0	Normal
		1	Reserve direction
7	Av setting without lens	0	Disable
		1	Enable (possible to set aperture on body w/o lens)
8	WB + media/image size setting	0	Rear LCD panel
		1	LCD monitor (displayed when FUNC button pressed)
9	Button function	0	Protect (hold button in: sound rec.)
		1	Sound rec. (press & release; protect possible via menu only)
10	Button function when <off>	0	Normal (enable)
		1	Disable ☐, ☐, Multi-controller
		0	Ec-C IV
11	Focusing screen	1	Ec-A, B, C, II, C III, D, H, I, L
		2	Ec-S
		3	Ec-N, R
12	Timer length for timer	-	Disable (use camera's built-in settings)
		Register	Enable (apply user-registered changes)
			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
13	Shortened release time lag	0	Disable (standard 55ms "time lag")
		1	Enable (as low as 40ms, depending upon lens aperture)
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
15	Add original decision data	0	Off
		1	On (used by optional Original Data Security Kit)
16	Live View Function exposure simulation	0	Disable (LCD auto adjust)
		1	Enable (LCD simulates actual exposure level)

EOS-1D Mark IV Custom Function Chart

Custom Function	Function Description	No.	Setting
C.Fn I: Exposure			
1	Exposure level increments	0	1/3-stop set 1/3-stop compensation
		1	1-stop set 1/3-stop compensation
		2	1/2-stop set 1/2-stop compensation
2	ISO speed setting increments	0	ISO set in 1/3-stop increments
		1	ISO set in 1-stop increments
3	Set ISO speed range	-	Disable (camera ISO range 100-3200) Enable (apply user-registered available ISO range)
		Register	Highest ISO Speed 100 - 12800, H1, H2, H3 [TD] (1-stop increments)
			Lowest ISO Speed L, 100 - 12800
4	Bracketing Auto Cancel	0	On (AEB cancels if camera turned off, etc.)
		1	Off (AEB remains in effect unless flash turned on)
5	Bracketing sequence	0	0 → → → +
		1	- → 0 → +
		2	+ → 0 → -
6	Number of bracketing shots	0	3 shots
		1	2 shots
		2	5 shots
		3	7 shots
7	Spot metering link to AF point	0	Disable (spot metering always at center)
		1	Enable (spot metering at manually selected AF pt.)
8	Safety Shift	0	Disable
		1	Enable (Tv/Av modes)
2		1	Enable (ISO speed shifts, in P, Tv, Av modes)
		2	Enable (ISO speed shifts, in P, Tv, Av modes)
9	Select usable shooting modes	-	Disable (all exposure modes available) Enable (only modes registered are selectable)
		Register	M P
			Tv BULB
Av	Apply		
10	Select usable metering modes	-	Disable (all metering patterns available) Enable (only metering modes registered are selectable)
		Register	<input type="checkbox"/>
			<input type="checkbox"/>
Apply	Apply		
11	Exposure mode in manual exp.	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		
12	Set shutter speed range	-	Disable Enable (apply user-registered range)
		Register	Highest speed: 8000-15* (1-stop increments)
			Lowest speed: 30*-4000 (1-stop increments)
Apply	Apply		
13	Set aperture value range	-	Disable (use lens's full aperture range) Enable (apply user-registered aperture range)
		Register	Min. aperture (Max. f/): 1.4-9.1
			Max. aperture ((Min. f/): 1.0-6.4)
Apply	Apply		
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)
15	Flash sync. speed in Av mode	0	Auto (shutter speed set based on ambient light)
		1	1/300 sec - 1/60 sec. auto
		2	1/300 sec. (fixed)
16	AE Microadjustment	-	Disable
		1	Enable (±1 stops in 1/8-stop increments)
17	FE Microadjustment	-	Disable
		1	Enable (±1 stops in 1/8-stop increments)
C.Fn II: Image/Flash exp/Display			
1	Long exp. noise reduction	0	Off
		1	Auto (camera decides whether to apply reduction)
		2	On (noise reduction applied; 1 sec. and longer only)
2	High ISO speed noise reduction	0	Standard
		1	Low
		2	Strong
		3	Disable
3	Highlight tone priority	0	Disable
		1	Enable
4	Auto Lighting Optimizer	0	Standard
		1	Low
		3	Strong

Custom Function	Function Description	No.	Setting
4	(Cont.)	4	Disable
5	E-TTL II flash metering	0	Evaluative flash metering
		1	Average flash metering over all 63 metering zones
		0	1st-curtain synchronization
6	Shutter curtain sync.	0	2nd-curtain synchronization (EOS Speedlites only)
		1	Enable
7	Flash firing	0	Disable - AF assist beam continues to operate
		1	Enable
8	Viewfinder info. during exp.	0	Disable
		1	Enable (viewfinder info visible during bursts)
9	LCD panel illumination during Bulb	0	Off
		1	On during Bulb
10	INFO button when shooting	0	Displays shooting function
		1	Displays camera settings
C.Fn III: Autofocus/Drive			
1	USM lens electronic MF	0	MF possible after One-shot AF completed
		1	Disable after One-shot AF
		2	Disable completely in AF mode
2	AI Servo tracking sensitivity	-	Slow: -2, -1, 0, +1, +2: Fast
		0	AF priority/2nd shot onward - Tracking priority
3	AI Servo 1st/2nd image priority	1	AF priority/2nd shot onward - Drive speed priority
		2	Release/2nd shot onward - Drive speed priority
		3	Release/2nd shot onward - Tracking priority
4	AI Servo AF tracking method	0	Main focus point priority
		1	Continuous AF track priority (ignores closer objects)
5	Lens drive when AF impossible	0	Focus search on
		1	Focus search off
6	Lens AF stop button function (select Canon Super-telephoto IS lenses only)	0	AF stop
		1	AF start
		2	AE lock
		3	AF point: M → Auto/Auto → ctr
		4	ONE SHOT ↔ AI Servo
		5	IS start
		6	Switch to registered AF point
7	Spot AF		
7	AF Microadjustment	0	Disable (no adjustment for front or back-focus)
		1	Adjust all by same amount
		2	Adjust by lens
8	AF expansion with selected pt	0	Disable (one AF point only when manually selected)
		1	Left/right AF point
2		2	Surrounding AF points
		3	All 45 points area
9	Multi-controller while meter	0	Off
		1	AF point selection
10	Selectable AF point	0	45 points
		1	11 points
		2	19 points
		3	Inner 9 points
4		4	Outer 9 points
		0	Disable
11	Switch to registered AF point	1	Switch with <:;>
		2	Only while <:;> is pressed
12	AF point auto selection	0	direct: disable / : enable
		1	direct: disable / : disable (auto AF select mode impossible to access)
2		2	direct: enable / : enable
		0	On (red illumination on)
13	AF point display during focus	1	Off
		2	On (lights momentarily when focus achieved)
14	AF point brightness	0	Normal
		1	Brighter
15	AF-assist beam firing	0	Enable (Speedlite's AF assist beam fires normally)
		1	Disable
2		2	IR AF assist beam only
		0	Same for both vert./horiz.
16	Orientation linked AF point	1	Select different AF points
		0	Disable
17	Mirror lockup	1	Enable (mirror lowers after each shot)
		2	Enable: Down with SET (mirror remains up until SET pressed)
18	Continuous shooting speed	-	Disable (shoots at default fps rates) Enable (applies user-registered fps rates)
		Register	High speed: 10 - 2 fps (per shot)
			Low speed: 1 - 9 fps (per shot)
Apply	Apply		
19	Limit continuous shot count	-	Disable
		1	Enable

EOS 5D Mark II Custom Function Chart

Custom Function	Function Description	No.	Setting
19	(Cont.)	-	Register Limited shots: 99-2 Apply
C.Fn IV: Operation/Others			
1	Shutter curtain sync.	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		4	Metering + AF start/disable (AF-on button)
		0	Disable
2	AF-ON/AE lock button switch	0	Enable (reverse role of AEL and AF-on buttons)
		1	Enable (reverse role of AEL and AF-on buttons)
3	Quick Control Dial in meter	0	Exposure comp/Aperture
		1	AF point selection (instant AF point access with rear dial)
		2	ISO speed (instant ISO access with rear dial)
		3	AF point selection - <->
4	Assign SET button	4	ISO speed + <-> ISO
		0	Normal (disabled)
		1	White balance
		2	Image size
		3	ISO Speed
		4	Picture Style
		5	Record func. + media/folder
5	Tv/Av setting for Manual exp.	0	Tv= / Av=
		1	Tv= / Av= (reverse functions in M mode for top/rear dials)
6	Dial direction during Tv/Av	0	Normal
		1	Reverse direction
7	Av setting without lens	0	Disable
		1	Enable (possible to set aperture on body w/o lens)
8	WB + media/image size setting	0	Rear LCD panel
		1	LCD monitor (displayed when FUNC button pressed)
9	Button function	0	Protect (hold: Record memo)
		1	Record memo (Protect: Disabled)
		2	Play memo (hold: Record memo)
10	Button function when	0	Normal (enable)
		1	Disable , , Multi-controller
11	Start movie shooting	0	Default (from IV)
		1	Quick start (<FEL>-button)
12	Focusing Screen	0	Ec-C IV
		1	Ec-A, B, C, C II, C III, D, H, I, L
		2	Ec-S
3		3	Ec-N, R
		0	Disable (use camera's built-in settings) Enable (apply user-registered changes)
13	Timer length for timer	-	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.
		Register	Apply
		Apply	Apply
		0	Disable (standard 55ms "time lag")
14	Shortened release time lag	1	Enable (as low as 40ms, depending upon lens aperture)
		0	Off
15	Add aspect ratio information	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
		6	Aspect ratio 5:7
16	Add original verification data	0	Off
		1	On (used by optional Original Data Security Kit)

Custom Function	Function Description	No.	Setting
C.Fn I: Exposure			
1	Exposure level increments	0	1/3-stop
		1	1/2-stop
2	ISO speed setting increments	0	1/3-stop
		1	1-stop
3	ISO expansion	0	Off
		1	On
4	Bracketing auto cancel	0	On
		1	Off
5	Bracketing sequence	0	0, -, +
		1	-, 0, +
6	Safety shift	0	Disable
		1	Enable (Tv/Av)
7	Flash sync. speed in Av mode	0	Auto
		1	1/200-1/60 sec. (auto)
2	1/200 sec. (fixed)		
C.Fn II: Image			
1	Long exposure noise reduction	0	Off
		1	Auto
		2	On
2	High ISO speed noise reduction	0	Standard
		1	Weak
		2	Strong
3	Highlight Tone Priority	0	Disable
		1	Enable
		2	Strong
4	Auto Lighting Optimizer	0	Standard
		1	Weak
		2	Strong
3	Disable		
C.Fn III: Autofocus/Drive			
1	Lens drive when AF impossible	0	Focus search on
		1	Focus search off
2	Lens AF stop button function	0	AF stop
		1	AF start
		2	AE lock
		3	AF point: M → Auto/Auto → ctr
		4	ONE SHOT → AI SERVO
3	AF point selection method	0	Normal
		1	Multi-controller direct
		2	Quick Control Dial direct
		0	On
		1	Off
4	Superimposed display	0	Enable
		1	Disable
5	AF-assist beam firing	0	Disable
		1	Enable
6	Mirror lockup	0	Disable
		1	Enable
7	AF point area expansion	0	Disable
		1	Enable
8	AF Microadjustment	0	Disable
		1	Adjust all by same amount
2	Adjust by lens		
C.Fn IV: Operation/Others			
1	Shutter button/AF-ON button	0	Metering + AF start
		1	Metering + AF start/AF stop
		2	Metering start/Meter + AF start
		3	AE lock/Metering + AF start
4		4	Metering + AF start/disable
		0	Disable
2	AF-ON/AE lock button switch	1	Enable
		0	Normal (disabled)
3	Assign SET button	1	Change quality
		2	Change Picture Style
		3	Menu display
		4	Image replay
		5	Quick control screen
		6	Record movie (Live View)
4	Dial direction during Tv/Av	0	Normal
		1	Reverse direction
5	Focusing screen	0	Eg-A
		1	Eg-D
6	Add original decision data	0	Eg-S
		1	Off

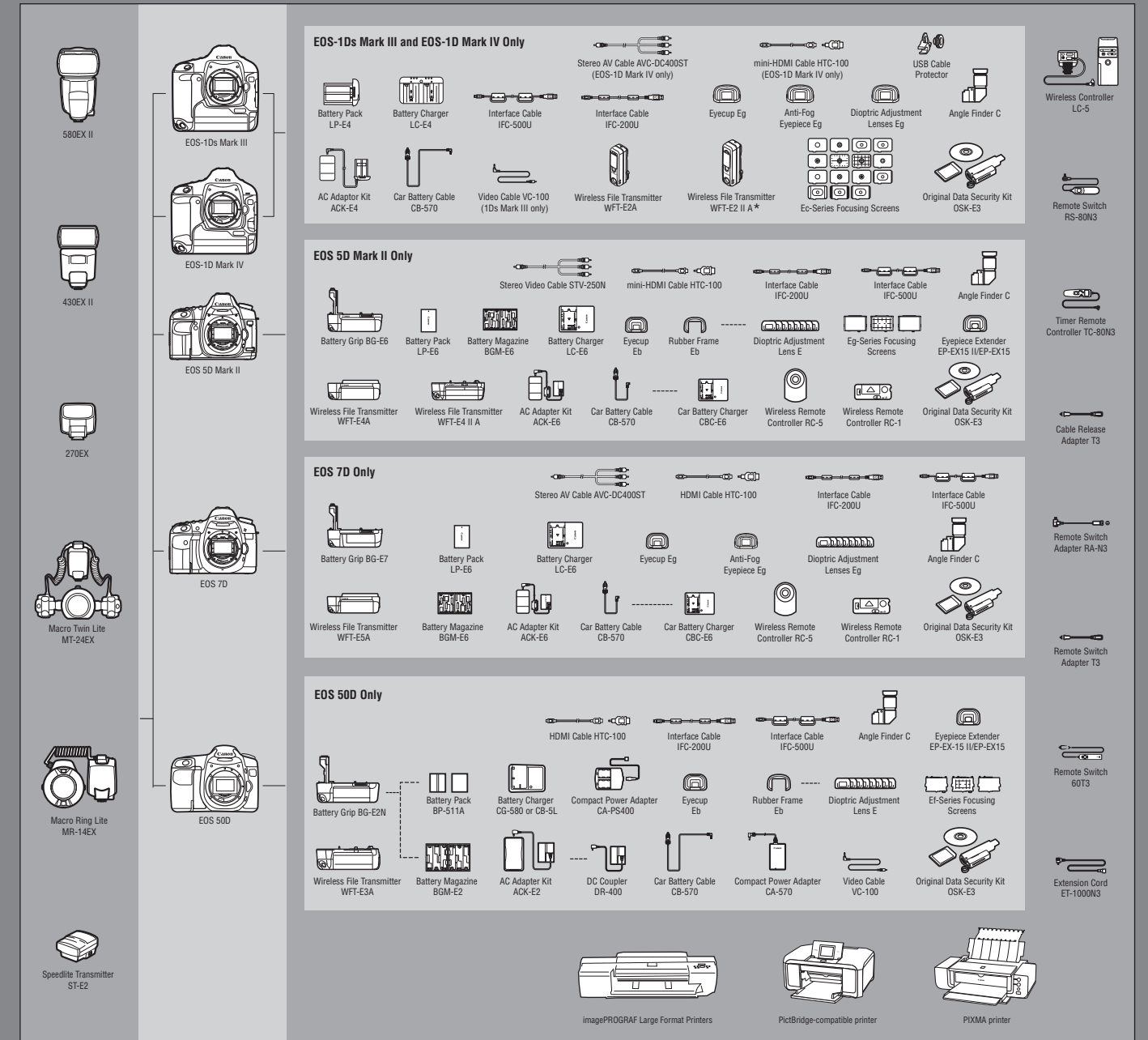
EOS 7D Custom Function Chart

Custom Function	Function Description	No.	Setting
C.Fn I: Exposure			
1	Exposure level increments	0	1/3-stop
		1	1/2-stop
2	ISO speed setting increments	0	1/3-stop
		1	1-stop
3	ISO expansion	0	Off
		1	On
4	Bracketing auto cancel	0	On
		1	Off
5	Bracketing sequence	0	0, -, +
		1	-, 0, +
6	Safety shift	0	Disable
		1	Enable (Tv/Av)
7	Flash sync. speed in Av mode	0	Auto
		1	1/250-1/60 sec. (auto)
		2	1/250 sec. (fixed)
		C.Fn II: Image	
1	Long exposure noise reduction	0	Off
		1	Auto
		2	On
2	High ISO speed noise reduction	0	Standard
		1	Low
		2	Strong
3	Highlight Tone Priority	0	Disable
		1	Enable
C.Fn III: Autofocus/Drive			
1	AI Servo tracking sensitivity	Slow - - 0 - - Fast	
		0	AF priority / Tracking priority
		1	AF priority / Drive speed prior
		2	Release / Drive speed priority
2	AI Servo 1st/2nd image priority	2	Release / Drive speed priority
		3	Release/Tracking priority
3	AI Servo AF tracking method	0	Main focus point priority
		1	Continuous AF track priority
4	Lens drive when AF impossible	0	Focus search on
		1	Focus search off
5	AF Microadjustment	0	Disable
		1	Adjust all by same amount
		2	Adjust by lens
		6	Select AF area selec. mode (☐: checkbox)
<input type="checkbox"/>	Manual select.: Spot AF		
<input type="checkbox"/>	Man. select.: AF point expansion		
<input type="checkbox"/>	Manual select.: Zone AF		
<input type="checkbox"/>	Auto select.: 19 point AF		
7	Manual AF pt. selection pattern	0	Stops at AF area edges
		1	Continuous
8	VF display illumination	0	Auto
		1	Enable
		2	Disable
9	Display AF points position	0	Disable
		1	Enable
10	Focus display in AI SERVO/MF	0	Enable
		1	Disable
11	AF-assist beam firing	0	Enable
		1	Disable
		2	Enable external flash only
		3	IR AF assist beam only
12	Orientation linked AF point	0	Same for both vertic./horiz
		1	Select different AF points
13	Mirror lockup	0	Disable
		1	Enable
C.Fn IV: Operation/Others			
1	Custom Controls	Change camera button/control's assigned function	
		0	Normal
2	Dial direction during Tv/Av	0	Reverse direction
		1	Normal
3	Add image verification data	0	Disable
		1	Enable
4	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 5:6
6	Aspect ratio 5:7	6	Aspect ratio 5:7

EOS 50D Custom Function Chart

Custom Function	Function Description	No.	Setting
C.Fn I: Exposure			
1	Exposure level increments	0	1/3-stop
		1	1/2-stop
2	ISO speed setting increments	0	1/3-stop
		1	1-stop
3	ISO expansion	0	Off
		1	On
4	Bracketing auto cancel	0	On
		1	Off
5	Bracketing sequence	0	0, -, +
		1	-, 0, +
6	Safety shift	0	Disable
		1	Enable (Tv/Av)
7	Flash sync. speed in Av mode	0	Auto
		1	1/250-1/60 sec. (auto)
		2	1/250 sec. (fixed)
		C.Fn II: Image	
1	Long exposure noise reduction	0	Off
		1	Auto
		2	On
2	High ISO speed/noise reduction	0	Standard
		1	Low
		2	Strong
3	Highlight Tone Priority	0	Disable
		1	Enable
4	Auto Lighting Optimizer	0	Standard
		1	Low
		2	Strong
		3	Disable
C.Fn III: Autofocus/Drive			
1	Lens drive when AF impossible	0	Focus search on
		1	Focus search off
2	Lens AF stop button	0	AF stop
		1	AF start
		2	AE lock
		3	AF point: M → Auto/Auto → ctr
		4	ONE SHOT → AI SERVO
3	AF point selection method	5	IS start
		0	Normal
		1	Multi-controller direct
		2	Quick Control Dial direct
		3	AF point selection method
4	Superimposed display	0	On
		1	Off
5	AF-assist beam firing	0	Enable
		1	Disable
		2	Only external flash emits
6	Mirror lockup	0	Disable
		1	Enable
7	AF Microadjustment	0	Disable
		1	Adjust all by same amount
		2	Adjust by lens
		C.Fn IV: Operation/Others	
1	Shutter button/AF-ON button	0	Metering + AF start
		1	Metering + AF start/AF stop
		2	Metering start/Meter + AF start
		3	AE lock/Metering + AF start
2	AF-ON/AE lock button switch	0	Disable
		1	Enable
3	Assign SET button	0	Normal
		1	Image replay
		2	Picture Style
		3	Menu display
		4	Image replay
4	Dial direction during Tv/Av	5	Quick Control screen
		0	Normal
5	Focusing screen	0	Ef-A
		1	Ef-D
		2	Ef-S
6	Add original decision data	0	Off
		1	On
7	Assign FUNC. button	0	LCD brightness
		1	Image quality
		2	Exposure comp/AEB setting

System Chart



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

Specifications

	EOS-1Ds Mark III	EOS-1D Mark IV	EOS 5D Mark II	EOS 7D	EOS 50D
Autofocus System	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	TTL-AREA-SIR CMOS Sensor; One-Shot and AI Servo II AF with Focus Prediction; Manual focusing confirmation possible with EF lenses; Automatic or manual focus point selection	TTL-CT-SIR CMOS Sensor (only the center point is cross type); One-Shot and AI Servo AF with Focus Prediction; Manual focusing confirmation possible with EF lenses; Automatic or manual focus point selection	TTL-CT-SIR CMOS Sensor; One-Shot and AI Servo II AF with Focus Prediction; Manual focusing confirmation possible with EF lenses; Automatic, Single Manual Point, Spot Manual Point, AF Point Expansion, or Zone AF selection available	TTL-CT-SIR CMOS Sensor; One-Shot and AI Servo AF with Focus Prediction; Manual focusing confirmation possible with EF and EF-S lenses; Automatic or manual focus point selection
Image Processor / Image Sensor	Dual "DIGIC III" / 36 x 24mm, single-plate CMOS Sensor with Auto Sensor Cleaning	Dual DIGIC 4 / 27.9mm x 18.6mm, single-plate CMOS Sensor with Auto Sensor Cleaning	DIGIC 4 / 36.0 x 24.0mm, single-plate CMOS Sensor with Auto Sensor Cleaning	Dual DIGIC 4 / 22.3mm x 14.9mm, single-plate CMOS Sensor with Auto Sensor Cleaning	DIGIC 4 / 22.3 x 14.9mm, single-plate CMOS Sensor with Auto Sensor Cleaning
Crop Factor	1.0x (full-frame)	1.3x (APS-H)	1.0x (full-frame)	1.6x (APS-C)	1.6x (APS-C)
Special Features	<ul style="list-style-type: none"> 21.1 Megapixel CMOS Digital SLR camera Built-in 3.0" (approx. 230,000 dots) wide viewing angle color monitor 57 Custom functions in 4 groups Quick Control Dial Simultaneous RAW and JPEG image capture Dioptric adjustment Depth-of-field preview FE lock Mirror lock N3 remote control socket USB 2.0 Hi-Speed compatible Magnesium alloy body Picture Style Dust reduction feature Live View Function 	<ul style="list-style-type: none"> 16.1 Megapixel CMOS Digital SLR Camera Built-in 3.0" (approx. 920,000 dots) wide viewing angle color monitor 62 Custom functions in 4 groups Multi-controller Simultaneous RAW and JPEG image capture Dioptric adjustment Depth-of-field preview FE lock Mirror lock N3 remote control socket USB 2.0 Hi-Speed compatible Magnesium alloy body Picture Style Dust reduction feature Live View Function & Face Detection Live mode Full HD Video 	<ul style="list-style-type: none"> 21.1 Megapixel CMOS Digital SLR camera Built-in 3.0" (approx. 920,000 dots) wide viewing angle color monitor 25 Custom functions with 71 settings Multi-controller Simultaneous RAW and JPEG image capture Dioptric adjustment Depth-of-field preview FE lock Mirror lock N3 remote control socket USB 2.0 Hi-Speed compatible Magnesium alloy body Picture Style Dust reduction feature Live View Function & Face Detection Live mode Full HD video 	<ul style="list-style-type: none"> 18.0 Megapixel CMOS Digital SLR camera Built-in 3.0" (approx. 920,000 dots) wide viewing angle color monitor 27 Custom Functions in 4 Groups Custom Control Screen Multi-controller Dual Axis Electronic Level Display Simultaneous RAW and JPEG image capture Dioptric adjustment Depth-of-field preview FE lock Mirror lock Retractable built-in E-TTL II flash, with Integrated Speedlite Wireless Transmitter USB 2.0 Hi-Speed compatible Magnesium alloy body Picture Style Live View Function & Face Detection Live mode Dust Reduction Feature Full HD video 	<ul style="list-style-type: none"> 15.1 Megapixel CMOS Digital SLR camera Built-in 3.0" (approx. 920,000 dots) wide viewing angle color monitor 25 Custom functions with 72 settings Multi-controller Simultaneous RAW and JPEG image capture Dioptric adjustment Depth-of-field preview FE lock Mirror lock Retractable built-in E-TTL II flash N3 remote control socket USB 2.0 Hi-Speed compatible Magnesium alloy body Picture Style Dust reduction feature Live View Function & Face Detection Live mode
Movie Recording Size	—	1920 x 1080 (Full HD): 30p (29.97) / 25p / 24p (23.976), 1280 x 720 (HD): 60p (59.94) / 50p; 640 x 480 (SD): 60p (59.94) / 50p.	1920 x 1080 (Full HD): 30p, 640 x 480 (SD): 30p	1920 x 1080 (Full HD): 30p (29.97)/24p (23.976)/25p, 1280 x 720 (HD): 60p (59.94)/50p, 640 x 480 (SD): 60p (59.94) / 50p.	—
Number of Focusing Points	45 (Area AF Ellipse) 19 cross-type AF points (plus 26 Assist AF points)	45 (Area AF Ellipse); All 45 points selectable: 39 cross-type, high-precision AF points (manual), 19 (automatic)	9 (plus 6 Assist AF points); Center AF point is cross-type Hybrid high and standard precision	19; Each AF point has a cross-type sensor, Center AF point is dual-diagonal high-precision cross-type sensor with f/2.8.	9; Each AF point has cross-type sensors—Center AF point also has an additional, diagonally mounted, high-precision cross-type sensor with f/2.8 or faster lenses
ISO Range*	ISO 100–1600, ISO 50 and 3200 via Menu Selection	ISO 100–12800, ISO 25600, 51200, & 102400 via Custom Function	ISO 100–6400, ISO 50, 12800 and 25600 via Menu Selection	ISO 100–6400, 12800 via Custom Function	ISO 100–3200, ISO 6400 and 12800 via Custom Function
Recording Media	UDMA CF/CF (Type I or II) card, SD/SDHC memory card	UDMA CF/CF card (Type I or II), SD/SDHC memory card	UDMA CF/CF (Type I or II) card	UDMA CF/CF (Type I or II) card	UDMA CF/CF (Type I or II) card
Frames Per Second	Single, 3.0 fps, 5.0 fps	Single, 10.0 fps, 3.0 fps	Single, 3.9 fps	Single, 8.0 fps, 3 fps	Single, 3.0 fps, 6.3 fps
Shutter Speeds	30–1/8000 sec. & Bulb; manually settable in 1/3-, 1/2-, 1-stop increments	30–1/8000 sec. & Bulb; manually settable in 1/3-, 1/2-, 1-stop increments	30–1/8000 sec. & Bulb; manually settable in 1/3-, 1/2-stop increments	30–1/8000 sec. & Bulb; manually settable in 1/3- or 1/2-stop increments	30–1/8000 sec. & Bulb; manually settable in 1/3- or 1/2-stop increments
Autofocus Sensitivity	EV -1–18 (at ISO 100)	EV -1–18 (at ISO 100 with f/1.4)	EV -0.5–18 (at ISO 100)	EV -0.5–18 (at ISO 100)	EV -0.5–18 (at ISO 100)
Maximum Flash Synchronization Speed	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	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	Up to 1/250 sec.; high-speed sync. available with EX-series Speedlites
Metering System	<p>TTL full-aperture metering:</p> <ul style="list-style-type: none"> 63-zone Evaluative metering 8.5% Partial metering 2.4% Center spot metering 2.4% Spot metering (linked to user-selected focusing point) Multi-spot metering (up to 8 spot readings) Center-weighted average metering Pre-flash metering (E-TTLII) 	<p>TTL full-aperture metering:</p> <ul style="list-style-type: none"> 63-zone Evaluative metering 13.5% Partial metering 3.8% Center spot metering 3.8% Spot metering (linked to user-selected focusing point) Multi-spot metering (up to 8 spot readings) Center-weighted average metering Pre-flash metering (E-TTL II) 	<p>TTL full-aperture metering:</p> <ul style="list-style-type: none"> 35-zone Evaluative metering 8% Partial metering 3.5% Center spot metering Center-weighted average metering Pre-flash metering (E-TTL II) 	<p>iFCL TTL full-aperture metering:</p> <ul style="list-style-type: none"> 63-zone Evaluative metering 9.4% Partial metering 3.5% Center spot metering Center-weighted average metering Pre-flash metering (E-TTL II) 	<p>TTL full-aperture metering:</p> <ul style="list-style-type: none"> 35-zone Evaluative metering 9% Partial metering 3.8% Spot metering Center-weighted average metering Pre-flash metering (E-TTL II)
Metering Sensitivity	EV 0–20 for all patterns (at ISO 100 with f/1.4 lens)	EV 0–20 for all patterns (at ISO 100 with f/1.4 lens)	EV 1–20 for all patterns (at ISO 100 with f/1.4 lens)	EV 1–20 for all patterns (at ISO 100 with f/1.4 lens)	EV 1–20 for all patterns (at ISO 100 with f/1.4 lens)
Exposure Compensation	±3 stops in 1/3- or 1/2-stop increments	±3 stops in 1/3- or 1/2-stop increments	±2 stops in 1/3- or 1/2-stop increments	±5 stops in 1/3- or 1/2-stop increments	±2 stops in 1/3- or 1/2-stop increments
Flash Exposure Compensation	±3 stops in 1/3- or 1/2-stop increments	±3 stops in 1/3- or 1/2-stop increments	±2 stops in 1/3- or 1/2-stop increments	±3 stops in 1/3- or 1/2-stop increments	±2 stops in 1/3- or 1/2-stop increments
AE Lock	Yes	Yes	Yes	Yes	Yes
Exposure Modes	<ul style="list-style-type: none"> Shutter Speed-priority AE Aperture-priority AE Program AE (shiftable) Manual E-TTL II Flash AE Flash Metered Manual Bulb 	<ul style="list-style-type: none"> Shutter Speed-priority AE Aperture-priority AE Program AE (shiftable) Manual E-TTL II Flash AE Bulb 	<ul style="list-style-type: none"> Program AE (shiftable) Shutter Speed-priority AE Aperture-priority AE Creative Auto Full Auto Manual E-TTL II Flash AE 	<ul style="list-style-type: none"> Program AE (shiftable) Shutter Speed-priority AE Aperture-priority AE Creative Auto Full Auto Manual E-TTL II Flash AE Bulb 	<ul style="list-style-type: none"> Program AE (shiftable) Shutter Speed-priority AE Aperture-priority AE Depth-of-Field AE Creative Auto Full Auto Manual E-TTL II Flash AE 6 PIC (Programmed Image Control) modes
Viewfinder Coverage	Approx. 100% horizontal/vertical at 0.76x	Approx. 100% horizontal/vertical at 0.76x	98% horizontal/vertical at 0.71x	Approx. 100% horizontal/vertical at 1x	95% horizontal/vertical at 0.95x
Viewfinder Information	<p>Inside the picture area: Area AF Ellipse, illuminated AF points and 2.4% Spot metering circle. Displayed at the bottom and right side of the viewing area:</p> <ul style="list-style-type: none"> Shutter speed Aperture value AE Lock FE Lock Shots remaining Max. burst Multi-spot readings Metering pattern Exposure level/Flash exposure level/Manual exposure level Exposure compensation/Flash compensation Exposure bracketing Flash ready/Hi-speed sync Focus confirmation White Balance +/- ISO speed JPEG indicator RAW indicator Battery check Memory card full warning 	<p>Inside the picture area: Forty-five focusing points, 3.8% Spot metering circle. Displayed at the bottom of the viewing area: Numeric and textual information with 7-segment LCD</p> <ul style="list-style-type: none"> Shutter speed Aperture value AE Lock FE Lock Shots remaining Max. burst Multi-spot readings Metering Pattern Exposure level/Flash exposure level/Manual Exposure level Exposure compensation/Flash compensation Exposure bracketing Flash ready/Hi-speed sync Focus confirmation White Balance +/- ISO speed JPEG indicator RAW indicator Battery check Memory card full warning 	<p>Inside the picture area: Nine focusing points, 3.5% Spot metering circle. Displayed at the bottom of the viewing area: Numeric and textual information with 7-segment LCD</p> <ul style="list-style-type: none"> Shutter speed Aperture value AE Lock FE Lock Max. burst Exposure level Flash exposure compensation Exposure bracketing Flash ready/High-speed sync B/W shooting Highlight Tone Priority Focus confirmation White Balance +/- ISO speed CF card full warning 	<p>Inside the picture area: Nineteen focusing points, 2.3% Spot metering circle, optional grid display, available Dual Axis Electronic Level. Displayed at the bottom of the viewing area: Numeric and textual information with 7-segment LCD</p> <ul style="list-style-type: none"> Shutter speed Aperture value AE Lock FE Lock Max. burst Exposure level Flash exposure compensation Exposure bracketing Exposure compensation/Flash compensation Exposure bracketing Flash ready/High-speed sync Highlight Tone Priority Focus confirmation JPEG indicator Battery check CF card full warning 	<p>Inside the picture area: Nine focusing points, 3.8% Spot metering circle. Displayed at the bottom of the viewing area: Numeric and textual information with 7-segment LCD</p> <ul style="list-style-type: none"> Shutter speed Aperture value AE Lock FE Lock Max. burst Exposure level Flash exposure compensation Exposure bracketing Flash ready/High-speed sync Highlight Tone Priority Focus confirmation White Balance +/- CF card full warning
Focusing Screen	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)	Precision laser-matte screen Ec-CIV Interchangeable (Ec series)	Precision laser-matte screen Eg-A marked with focusing points and Spot metering circle (interchangeable with Eg-series focusing screens)	Intelligent Viewfinder System	Precision laser-matte screen Ef-A marked with focusing points and Spot metering circle (interchangeable with dedicated Ef-series screens. Metering correction can be set with Custom Function IV-5)
Self-Timer	Electronically controlled with 2- or 10-second delay	Electronically controlled with 2- or 10-second delay	Electronically controlled with 2- or 10-second delay	Electronically controlled with 2- or 10-second delay	Electronically controlled with 2- or 10-second delay
Body Dimensions (W x H x D)	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	6.0 x 4.5 x 3.0 in./152 x 113.5 x 75mm	5.83 x 4.36 x 2.9 in./148.2 x 110.7 x 73.5mm	5.7 x 4.2 x 2.9 in./145.5 x 107.8 x 73.5mm
Weight (w/o battery, lens, CF or SD)	42.7 oz./1,210g	41.6 oz./1,180g	28.6 oz./810g	28.9 oz./820g	25.7 oz./730g

*Standard output sensitivity. Recommended exposure index.