

# Canon

# EOS

# System

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# Canon Optics. Optimized Creativity.

Incorporating cutting-edge technology, world-class optics and groundbreaking performance, there's nothing quite like the EOS System. Whether shooting stills or movies, EOS cameras and Canon lenses deliver true creative excellence. Canon's sensors and processors work in concert with advanced camera designs for incomparable photographic and video performance, and showcase the brilliance of Canon's superb collection of optics. A comprehensive collection of PowerShot compact cameras, printers, projectors and software solutions work together and serve as the ultimate complement to the EOS, a state-of-the-art system of exceptional cameras, lenses and accessories that make beautiful images with ease. Bolstered by a network of online support from the Canon Digital Learning Center, the EOS System and Canon lenses set the standard for imaging excellence in the 21st century—helping image makers realize their vision every time they pick up their camera.

**EOS50million** **EF80million**



## EOS CAMERAS

Rugged construction, photographer-friendly features, and compatibility with the entire line of EF lenses and EOS accessories make Canon EOS cameras benchmarks for performance, ease of use, and quality.

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## EF LENSES

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## SPEEDLITE FLASHES

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## EOS SYSTEM ACCESSORIES

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## CINEMA EOS SYSTEM

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## POWERSHOT CAMERAS

Built on some of the same technologies as EOS cameras, PowerShot cameras offer spectacular quality and control in a compact and easy-to-use body.

## PHOTO PRINTERS

From large format to 4" x 6" prints, Canon's imagePROGRAF and PIXMA photo printers enable photographers to produce professional-grade photoprints simply—almost anywhere, anytime.

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## REALIS PROJECTORS

The REALIS Multimedia Projectors from Canon feature LCOS (Liquid Crystal on Silicon) technology and AISYS (Aspectual Illumination System) Optics, raising the bar for quality in presentation.

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## EOS EDUCATION & INSPIRATION

The Canon Digital Learning Center and Canon Live Learning serve to educate, inform and inspire EOS users. Learn from professionals how to get the maximum out of your EOS camera.

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# EOS TECHNOLOGY

The history of Canon EOS cameras is brimming with examples of technological innovations that have set new industry standards for performance and usability.

And yet, at Canon, technology is never an end in itself.

Every technological advancement must yield tangible benefits to the user. Does a new feature enable the camera to more quickly and faithfully respond to the photographer's will? Does a new material or process improve the camera's long-term reliability? Canon EOS advancements endure because they enhance the photographic experience, whether you are a seasoned professional or a beginner. Put simply, the technologies of Canon EOS cameras are impressive because of the quality of the images they enable you to create.

## Canon CMOS Sensor

Taking advantage of its own proprietary technologies, Canon develops and produces its own CMOS sensors. Unlike CCD sensors, CMOS sensors convert and amplify signals before they are transferred to the image processor, enabling them to produce exceptionally clean image data and reduce power consumption by as much as 90%. Data transfer speeds are increased by using multi-channel signal paths that dramatically improve the camera's responsiveness. Canon's CMOS sensors incorporate a unique on-chip noise reduction technology to deal with both fixed pattern and random noise. In addition, a multilayer low-pass filter is placed in front of the sensor to isolate false colors that the sensor may detect. Then, Canon's own **DIGIC** Image Processor processes the image to help eliminate those colors while retaining full detail. CMOS sensors can also be fabricated to full-frame 35mm dimensions, an important consideration for photographers who wish to use their lenses without a

conversion factor. Canon's CMOS sensors deliver outstanding resolution and signal purity, making them ideal for the most critical photo or video applications.

## Full-Frame Canon CMOS Sensor



EOS 5D Mark III Full-Frame CMOS Sensor (actual size)

**FULL FRAME CMOS** The Canon-manufactured full-frame CMOS sensor delivers professional performance with digital convenience. EOS DSLR cameras with full-frame sensors, found on the EOS-1D X, EOS 5D Mark III, EOS 6D and EOS 5D Mark II, do not require a focal length conversion factor common to other DSLR cameras on the market. Instead, they deliver the same angle-of-view as 35mm film cameras, so the working distance to the subject, with a given lens, is the same as it would be on film. Since you can use EF lenses on either 35mm film cameras or Canon DSLR cameras with the same results, the switch from film to digital is truly seamless.



When using the same lens with different cameras, the angle-of-view varies depending on the sensor size.

Full-frame sensors provide greater control over depth-of-field, which helps to create beautiful background blur, perfect for portraits. The large sensor area also helps to enable a marked reduction in noise levels at all ISO values. When combined with high resolution and smooth gradation from highlights to shadows, Canon DSLR cameras with full-frame sensors produce images that rival those taken with professional medium-format and large-format film cameras. For maximum control and dependable performance, the choice is simple — Canon full-frame DSLR cameras.

\* Standard output sensitivity. Recommended exposure index.



High ISO – Whether shooting stills or video, Canon EOS cameras capture silky-smooth low-noise images that are sharp with a wide dynamic range of color and tone, even at high ISO speeds.

## Extensive ISO Range\*

EOS cameras feature an extensive ISO range for greater flexibility in diverse photographic situations. The EOS-1D X features the extended ISO range of ISO 100–51200 (L: 50, H1: 102400, H2: 204800)! The EOS 5D Mark III and EOS 6D have an ISO range of ISO 100–25600 (L: 50, H1: 51200, H2: 102400). Even at higher ISO settings where one might expect to see a higher degree of noise, the renowned Canon CMOS sensor and noise reduction system work to ensure superb image quality. Accordingly, even the most critical photographers can use EOS cameras with confidence, no matter the light.

## Effective Light-gathering

The EOS-1D X sensor has 18.1 effective megapixels with individual 6.95  $\mu\text{m}$  pixels, the EOS 5D Mark III has a 22.3 megapixel sensor with individual 6.25  $\mu\text{m}$  pixels, and the EOS 6D has a 20.2 megapixel sensor with individual 6.55  $\mu\text{m}$  pixels. An improved S/N ratio plus a new photodiode structure with an increased photoelectric conversion rate on the EOS-1D X, EOS 5D Mark III and EOS 6D's sensor increases sensitivity by approximately 2 stops over previous models, meaning higher ISOs with even lower noise.

## Advanced 14-bit A/D Conversion

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

## DIGIC 5+ / 5 / 4 Image Processor



Dual DIGIC 5+ Image Processors (EOS-1D X)

Designed to maximize the performance between the capture and recording stages of digital photography, the **DIGIC** Image Processor uses advanced signal processing technologies to enhance image quality and deliver a more intuitive, responsive camera. Processors like the **DIGIC 4** Image Processor, found on the majority of EOS DSLRs, speed up camera operations such that advanced technologies like Face Detection AF, Live View composing, and Full HD video recording are simple and easy. The Dual **DIGIC 5+** Image Processors found in the EOS-1D X, the **DIGIC 5+** Image Processor in the EOS 5D Mark III and EOS 6D, and the **DIGIC 5** Image Processor in the EOS Rebel T4i turbocharge performance, and can even support compensation for chromatic aberration in both still and motion images.

## EOS iSA System

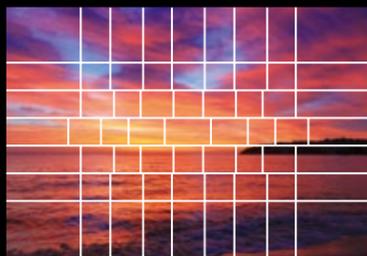
The new 100,000-pixel RGB Metering Sensor with a dedicated **DIGIC 4** Image Processor, found on the EOS-1D X delivers substantial improvements in evaluative ambient and flash metering. The sensor has 252 distinct zones, and reduces to 35 zones in low light. It detects face and color to perform more accurate subject recognition, which is used to enhance the performance of the AE, E-TTL and AF systems.



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**Superlative Exposure Control**

Canon EOS cameras incorporate advanced exposure control systems, offering the photographer exceptionally precise AE (auto exposure) with a wide range of metering options. Full-frame evaluative metering incorporates the camera's multi-zone sensor reading with specific focusing point data. The onboard microcomputer compares input from all zones and calculates optimum exposure. While evaluative metering helps to assure excellent results in even the most challenging lighting situations, advanced photographers can choose from among several additional metering options. Center-Weighted



**Multi-zone Metering** — Canon's sophisticated Multi-zone Evaluative Metering System considers not only the active focusing point, but also a range of metered values throughout the frame to determine correct exposure even in difficult lighting.

metering is available for those who prefer a more traditional pattern. Partial metering limits readings to sensor zones in the center of the image area, giving the photographer more area-specific control. Spot readings can be taken at the center of the frame area or, with some models, linked to an AF point. With certain EOS cameras, up to eight separate spot meter readings can be recorded and averaged. For cameras like the EOS 5D Mark III, EOS 6D and the EOS 60D, Canon developed the iFCL (intelligent Focus Color Luminance) 63-zone dual-layer metering system to incorporate the color wavelength surrounding the chosen focus point to help ensure more natural color rendition. Flash photography with EOS Systems also benefits from the extraordinary exposure control technology Canon has created. E-TTL (Evaluative Through-The-Lens) and E-TTL II autofocus systems work in combination with the camera's multi-zone metering sensor to help take the guesswork out of flash photography. The camera performs instantaneous calculations based on readings from the preflash, ambient lighting conditions and assessment of subject location to determine the optimum flash output and exposure settings. With E-TTL II, the calculations also incorporate distance information from compatible EF lenses, enabling the system to

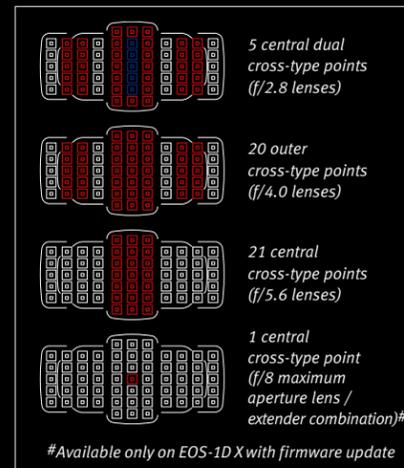
better handle dark, light and highly reflective subjects. Resulting images can have a virtually perfect balance between ambient light and flash illumination, even in complicated lighting situations and compositions.

**Autofocus Technology**



61-Point High Density Reticular AF Sensor

The EOS system leads the way in professional AF technology with multi-point AF systems that deliver an ever-increasing combination of accuracy and speed in diverse situations. The EOS-1D X and EOS 5D Mark III are a benchmark in AF technology, with a 61-Point High Density Reticular AF. It has improved tracking, 5 central dual cross-type points (f/2.8 diagonal), 21 central cross-type points (f/5.6 horizontal & vertical) and 20 outer cross-type points (f/4.0 horizontal), and is remarkably sensitive in low-light situations (EV -2 for a central point



**Leading-Edge AF Technology** — The EOS-1D X incorporates a highly advanced 61-Point High Density Reticular AF that delivers exceptional focus accuracy. It provides multi-zone wide area coverage for better tracking and astonishing AF performance in low light.

with a f/2.8 lens). It remains stable in adverse conditions, with secondary imaging lenses that use temperature and humidity resistant glass molding. With the EOS-1D X firmware update†, cross-type autofocusing is possible when the maximum aperture of a Canon EF lens becomes f/8 with an EF extender attached.

**Enhanced Subject Tracking**

Reliable subject identification and tracking features significantly improve a camera's performance in any number of situations. As seen on the EOS-1D X, EOS iTR AF can use both face detection and color to track a subject. With acceleration and deceleration tracking, the EOS-1D X's AI Servo AF system can adjust response and react to sudden stops and starts, perfect especially for sports and wildlife photography. Specific parameters can be adjusted and refined and saved in the AF menu for later use.

**Enhanced Live View Focusing**

Continuous subject autofocusing and tracking in Live View shooting has been enhanced with the new Hybrid CMOS AF (EOS Rebel T4i and EOS M) system. It combines both phase and contrast detection AF while aided by pixels on the camera's



Live View Multi-point AF (Zone select)



Touch AF Face & Tracking Priority AF

sensor to assist in predicting subject location. New Movie Servo AF provides continuous, optimized focus tracking that is quick and easy in movie recording and enhances focus performance. Also available is FlexiZone-Multi mode that divides the scene into 31 AF zones and uses special algorithms that gives priority to the center and closer subject for focusing. Taking advantage of the EOS Rebel T4i's touch screen LCD monitor, users can simply touch one of nine zones (center left, center right, center, center top, center bottom, and left and right corners) and select it for automatic focusing. Touch AF allows for a single point to be selected. Face & Tracking Priority AF detects faces and enables the camera to focus and track the selected face by switching the AF points. After detection, face tracking will continue even if the face turns to the side view. Other parts of the body besides the face can also be selected on the monitor and can be tracked in the same way.

**High-Speed Shooting**

The AF system found on the EOS-1D X combines fast 16-channel data readout from the camera's 18.1 Megapixel CMOS sensor, the processing speed of the Dual DIGIC 5+ Image Processors with a speedier shutter and mirror system to raise the performance bar for all digital cameras, all while capturing images full-frame. A mirror mechanism provides improved AF precision, speed and stability. The main mirror is equipped with two balancers and one bounce-lock mechanism, and the sub-mirror has two



Up to 12.0 Frames Per Sec

12.0 fps — Proprietary Canon technologies in the EOS-1D X deliver state-of-the-art performance: an astounding continuous shooting speed of 12.0 fps\* (RAW+JPEG) up to a maximum of 14.0 fps (JPEG) in Super High Speed Mode at full resolution.

balancers and two bounce-lock mechanisms, thus effectively controlling mirror bounce. This contributes not only to high-speed continuous shooting, but also a stable viewfinder image plus greater AF and AE accuracy.

**AF Modes**

Canon EOS cameras feature a number of dedicated autofocus modes designed to enhance reliability in specific shooting situations. One-Shot AF mode is ideal for static subjects — the camera rapidly selects the optimum focusing point, and the subject is instantly brought into focus even if it is off-center. AI Servo AF mode is excellent for moving subjects. Aided by a highly intelligent predictive focusing algorithm, it precisely tracks subject movement across the wide AF coverage area, automatically shifting the active focusing point vertically and horizontally as required. AI Focus AF mode, in which the camera automatically decides between One-Shot and AI Servo AF modes based on subject movement, is ideal for shooting unpredictable subjects. The AI Servo AF III, found on the EOS-1D X and EOS 5D Mark III, use more advanced algorithms for even better predictive focus tracking performance when shooting subjects with unpredictable movement. Even difficult, high-magnification subjects, such as a flower in a breeze, are captured accurately with a Canon macro lens using these tracking algorithms. With the firmware update†, the viewfinder of the EOS-1D X can now be illuminated in red (intermittently) when the shutter button is pressed halfway during AI Servo AF, for easy viewing and shooting in low light.

**Diverse AF Shooting Options**

On the EOS-1D X and EOS 5D Mark III, there are 6 AF point selection methods: spot, single point, single point and adjacent 4 points, single point and adjacent 8 points, zone selection and full automatic, plus there's a dedicated AF configuration tool for control of AI Servo AF tracking parameters. And to manage all of the new shooting options, both the EOS-1D X and EOS 5D Mark III have a dedicated AF menu tab, so AF settings are faster and easier to access than ever before.

\* The maximum continuous shooting speed is restricted to 10 fps when the battery charge is less than 50% or when ISO speed is above 32000. If the camera's internal temperature is low and ISO speed is above 20000, the maximum continuous shooting speed is restricted to 10 fps. † The EOS-1D X firmware update is now available at: [usa.canon.com/eos1dxfirmwareupdate](http://usa.canon.com/eos1dxfirmwareupdate)

# EOS Full HD Video Advantage

Select EOS cameras feature 1920 x 1080 Full HD video capture and offer the enhanced image quality, smooth frame rates and adaptive exposure compensation necessary in professional movie-making tools. By shooting video with an EOS camera, it's simple to take advantage of the image quality and characteristics intrinsic to large sensor cameras, resulting in richer, more detailed and more diverse images. The large sensor found in EOS cameras means more high quality pixels plus the potential to shoot at higher ISO sensitivities without loss of detail.

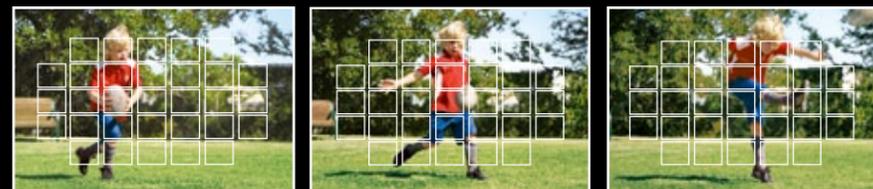


## EOS Full HD Video

**FULL HD 1080** EOS cameras increase shooting flexibility for the videographer in that they allow for full use of Canon EF and EF-S lenses, including wide-angle, macro, super-telephoto, tilt-shift and fisheye, providing a wealth of focal lengths, depth-of-field and other creative shooting options once reserved for still photography. All Live View AF features can also be used in shooting video, and playback modes are available in-camera, with sound. Combined with their size, image quality and flexibility, EOS cameras with Full HD video capture are superlative all-in-one, multimedia image-capturing tools.

## Movie Servo AF

For accurate focus tracking during video shooting, Canon developed Movie Servo AF found on the EOS Rebel T4i DSLR and EOS M Digital Cameras. Movie Servo AF takes advantage of the new Hybrid CMOS AF system. It locks focus on its subject with great speed and tracks it, throughout the composition, to keep it focused. Movie Servo AF automatically tracks subjects' distance as their position moves through the frame. When the EOS Rebel T4i DSLR and EOS M Digital Cameras are used with one of Canon's new STM lenses, continuous AF performance is remarkably quieter and smoother.



Movie Servo AF – Movie Servo AF allows continuous autofocus tracking of moving subjects while recording video.

## Manual Control

For complete creative decision-making on the go, select EOS cameras offer flexible manual controls for their movie modes. Not only can one take advantage of the range of ISO sensitivities, it's simple to control exposure and depth-of-field, all of which can have a profound effect on the mood of a scene. It's all as easy as the press of a button. By controlling depth-of-field, it's simple to create gorgeous background blur. Exposure can be determined and set even in complex lighting situations, maintaining the same look and feel throughout an entire scene, not just the initial shot.

## Large CMOS Sensor

With amazing Canon CMOS sensors, video is easy to shoot, and looks better than ever before. Large sensors provide a look and perspective impossible to achieve with traditional video cameras, and the quality must be seen to be believed. Large sensors also capture more light, and can record at high ISO sensitivities with less digital grain and reduced image noise. This enables low-light shooting, without loss of detail, in situations previously impossible without artificial light. Although many devices offer HD recording, the quality of video captured by an EOS camera and its CMOS sensor is markedly vibrant and truer to life.

## Depth-of-field

When shooting a video on an EOS camera, it's simple to control each shot's depth-of-field, an option previously available only when filming with expensive professional cinema cameras. Thanks to the physical size of the CMOS sensors in EOS cameras, combined with the large maximum apertures achieved by Canon lenses, depth-of-field, or lack thereof, can be a creative decision reached solely by the photographer. If a large aperture is chosen, thus creating shallow depth-of-field, evocative, dramatic moving images with blurred backgrounds can be attained with ease, something simply not possible with smaller sensors or compact cameras. If everything must be in focus, shooting with a small aperture helps ensure phenomenal depth-of-field, for illustrative landscapes, architecture or anything else where all details must be recorded. The drama, beauty and mood achievable by controlling a movie clip's depth-of-field cannot be overstated — and an EOS camera controls it with ease.

## Frame Rates

In select models, EOS Full HD video movies can be captured at 1920 x 1080 resolution, for up to 4GB per clip. Movies are saved as MOV files and can be viewed in Full HD with HDMI output. Other recording sizes include HD at 1280 x 720 (50/60 fps) or SD/VGA at 640 x 480 (50/60 fps). No matter the end-application, the proper resolution and frame rate is easily defined with EOS cameras.

Resolution	fps
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

## Movie Crop

The Movie Crop function on the EOS 60D enables zooming at 7x the captured focal length for distant action and extreme close-ups. This feature is perfect when the chosen subject is in a crowd, like a specific athlete, when it's impossible to get close to the action. Recorded as a VGA movie, Movie Crop shots are perfect for emailing, posting online, or editing into other movie clips.

## Video Snapshot

With the Video Snapshot feature, found on select EOS cameras, short video clips (of 2, 4 or 8 seconds) can be stitched together, in-camera, into one video file as a "snapshot album", perfect for sharing online, or displaying to an HDTV directly from the camera. In the EOS Rebel T4i, the Video Snapshot feature makes in-camera editing even simpler: Still images can be recorded during video shooting simply by pressing the camera's shutter button. During playback, video clips in an album can now be reordered or deleted.

## Creative Capabilities with EOS Lenses

From fisheye to super-telephoto, the amazing Canon EF, EF-S and EF-M lenses offer a stunning combination of sharpness, speed, compactness and flexibility — the perfect complement to a user's creativity. With the ability to create images of great beauty and with controlled depth-of-field, interchangeable lenses bring moviemaking to a whole new level. And the range of focal lengths is simply

staggering. With over 60 lenses available, including the Canon EF 8-15mm f/4L Fisheye USM, the world's first real fisheye zoom lens that functions as a circular fisheye and full-frame fisheye for a full size CMOS sensor, and as a full-frame fisheye for APS-C sizes, there's an EF or EF-S lens for everyone. No matter the photographer, no matter the situation, Canon's superlative lenses help ensure quality results.

## Sound Recording Level Adjustment

To ensure the best possible recording of sound, a number of EOS cameras offer a host of user-controlled sound recording adjustments. The manual sound recording level can be adjusted to one of 64 levels, and an optional wind filter can minimize unwanted excess sounds. Whether recording through an external microphone (on certain EOS models) or through the camera's internal mic, this important feature means more audible voices, less unwanted noise, and better overall sound.

## Movie Digital Zoom

Movie Digital Zoom, found on models like the EOS Rebel T3i, make it possible to zoom while shooting motion video from 3x to 10x, adding a whole new level of drama to video clips.

## Automatic Splitting of Video Files

The FAT file system's 4GB size limit cannot be changed, but it no longer has to interrupt video capture. Should a video file reach the 4GB limit during shooting on select EOS cameras, a new file is automatically created, enabling recording

to continue without interruption. Sequential files can later be joined in an editor with seamless results.

## Advanced Video Recording Options

Shooting HD video with an EOS camera, it's simple to take advantage of the image quality and characteristics intrinsic to cameras with large sensors. Found on all EOS cameras, the large sensor means more high quality pixels, the potential to shoot at higher ISO sensitivities without loss of detail and full use of Canon EF and EF-S/EF-M lenses with their wealth of focal lengths, depth-of-field and other creative shooting features. Most EOS cameras feature 1920 x 1080 Full HD video capture, delivering professional frame rates, adaptive exposure tools and phenomenal image quality. Select EOS DSLRs offer users a choice between All-I and IPB compression and supports High Profile under the H.264/MPEG-4 AVC standard, combining high image quality with high coding efficiency and producing files that are well suited for transmission or broadcast. It automatically splits files greater than 4GB (FAT limitation) without interruption and offers the option of timecoding at all times (Free Run) or only during recording (Rec Run), useful for multi-camera shots. It also features improved sound recording adjustment capabilities, offering 64-step volume control accessible through the quick settings screen during video shooting. The sensor technology in select models significantly increases image quality, reducing color artifacts and moiré.

## Interchangeable EF/EF-S/EF-M Lenses – Creative opportunities are at your fingertips.



Telephoto lenses  
Canon's amazing telephoto lenses bring the action closer, emphasizing the subject at hand.



Macro lenses let you get up close for detailed shots of small subjects.



Wide-angle lenses are perfect for shooting in tight spaces or to capture large expanses.



Fisheye lenses impart an extraordinary perspective and angle-of-view far beyond the limits of human vision.



Tilt-shift lenses allow you to control the area of focus.

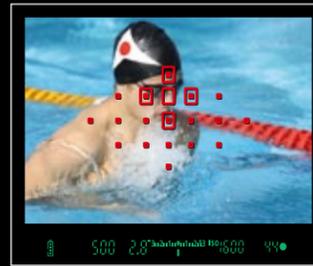
**Intelligent Viewfinder – Change your viewfinder display to match any situation.**



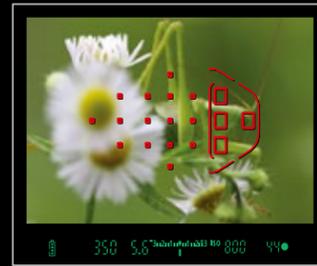
**AF point automatic selection** – The camera automatically chooses the correct AF point.



**Spot metering display** – Focus with a central, circular zone for accurate exposure control.



**AF point expansion** – Focus with a selected AF point and points surrounding it. Great for moving subjects.



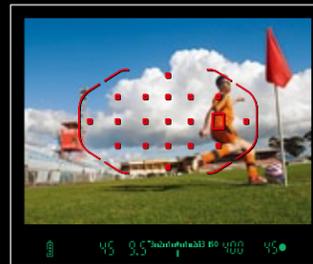
**Zone AF** – The AF points are divided into five focusing zones, useful for off-center shots.



**Grid display** – Useful for scenes where horizontal or vertical lines are stressed, such as architecture.



**Hide all** – An unobstructed view lets you get close to your subject and capture detail.



**AF Servo AF tracking display** – Provides instant feedback of AF points tracking a moving subject.



**Spot AF** – Focuses on an even smaller area for precise focus on small subjects.

**Intelligent Viewfinder**

The Intelligent Viewfinder, found on the EOS-1D X, EOS 5D Mark III and EOS 7D, uses a transparent LCD monitor to superimpose a customizable combination of focus points, gridlines and other shooting information within the viewfinder. Whereas with other EOS cameras' viewfinders the representation of AF points and metering areas are static, the Intelligent Viewfinder allows the information to be displayed, adjusted, or hidden with ease. This means less distraction and more clarity to view the image in its entirety. The Intelligent Viewfinder includes a Grid Display and in Spot metering mode, the specific area metered is shown.

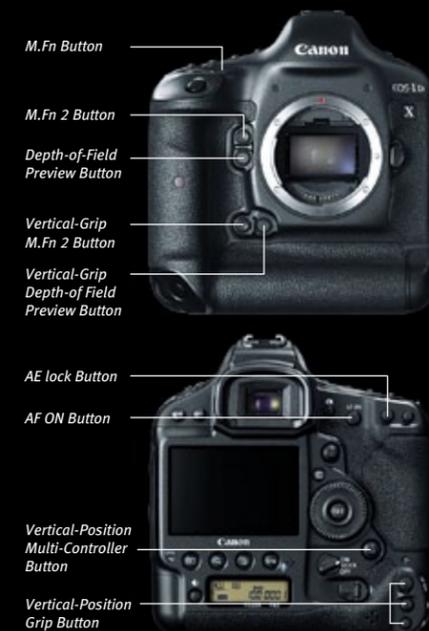
**Viewfinder**

No matter the camera's specifications, a clear, bright viewfinder is the photographer's first tool for great images. Canon innovates with their viewfinders, especially in the EOS-1D X, EOS 5D Mark III and EOS 7D, by offering approx. 100% viewfinder coverage, and several EOS SLRs have a larger pentaprism for higher viewfinder magnification. These cameras offer the best view of any EOS digital camera to date. All EOS DSLR cameras offer dioptic correction and several EOS DSLR cameras have a number of different viewfinder accessories, including up to 11 different focus screens available for almost any application.

**Superb Ergonomics**

EOS cameras not only produce phenomenal images, they are designed to be comfortable to use and carry all day long. From bright viewfinders, to tactile buttons and knobs, Canon is constantly refining ergonomics based on the feedback of real users. Canon's Custom functions further enable photographers to tailor features and operations to their shooting style. The EOS-1D X has

programmable function buttons located on the front of the camera that enable fast access to frequently used features the photographer specifies. Its vertical grip is redesigned for comfort and familiarity, and combined with a vertical position Multi-controller, provides every option and button found in the horizontal for uninterrupted, intuitive shooting no matter the camera's orientation. Plus, the EOS-1D X's Multi Electronic Lock allows the Main Dial, Quick Control Dial and Multi-controller to be all locked, individually or together.



**Dual Axis Electronic Level Sensor**

Developed by Canon and featured in the EOS-1D X, EOS 5D Mark III and EOS 7D, the brilliant Dual Axis Electronic Level display aids in achieving perfectly oriented shots. Visible in the viewfinder and on the camera's LCD monitor, in both Live View mode or as a standalone, and capable of displaying both roll and pitch in 1° increments, the Dual Axis Electronic Level Sensor is invaluable for architecture, macro photography, video, or any situation where critical composition is important.



Viewfinder display with Intelligent Viewfinder

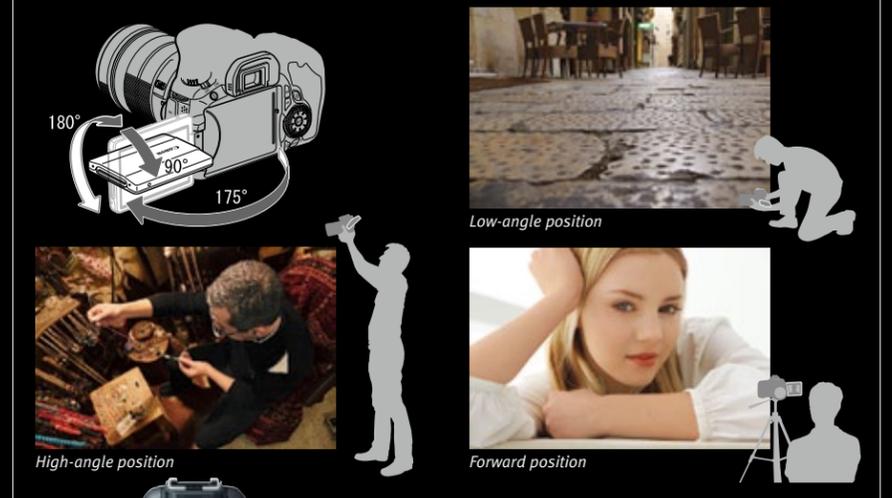


View of rear LCD monitor with Live View

**Vari-angle LCD Monitor**

Found on the EOS Rebel T4i, the EOS Rebel T3i and EOS 60D, the brilliant Canon Vari-angle Vari angle LCD (Vari-angle Touch Screen 3.0-inch Clear View LCD monitor II on the EOS Rebel T4i) with 180° vertical rotation sets new standards for clarity and flexibility. Designed to flip out from the back of the camera, the Vari-angle monitor's 180° rotation means it can be adjusted for low angle or high angle and can even be positioned forward directly at the subject (when facing the subject, the displayed image automatically flips, showing a right-side-up mirror image, perfect for self-portraits). Because the monitor opens out sideways, it switches between low and high angle shooting without interfering

**Unique Shooting Opportunities with the Vari-angle LCD Monitor**



Vari-angle Touch Screen 3.0-inch Clear View LCD Monitor II (EOS Rebel T4i only)

with the use of auxiliary camera grips or tripods. As an added plus, the EOS Rebel T4i's LCD monitor has touch screen capabilities for more intuitive control.

**Live View Function**

Canon's spectacular Live View shooting is now available on all current EOS cameras. Live View Function, where the photographer can compose and shoot directly from the camera's LCD monitor is an indispensable feature for creative photography in any number of situations. It enables the photographer to zoom in and

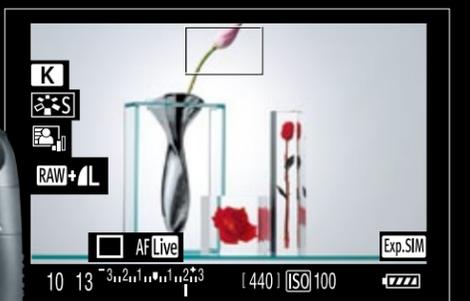


Multi-control Dial on EOS 60D

navigate the composition 5x or 10x its normal size, while enabling critical focus and allowing more attention to detail. Users can even choose a grid overlay, perfect for architectural photography. In the studio, Live View Function can be used remotely (via a computer) through the camera's USB connection (via the Gigabit Ethernet port on the EOS-1D X), or wirelessly if the optional Wireless File Transmitter is used.

**Live View Focusing**

Canon's Live View Function includes 3 focusing modes: Quick mode, Live mode, and Face Detection Live mode. In Quick mode, One-Shot AF is set automatically and the AF point is selectable even while the Live View image is displayed. In Live mode, AF can be started by pressing the AE button for either AF mode. In Face Detection Live mode, the largest face near center is detected initially, but the multi-controller can be used to select any face detected. The EOS Rebel T4i and EOS M also features Hybrid CMOS AF during Live View for continuous subject autofocus and tracking.



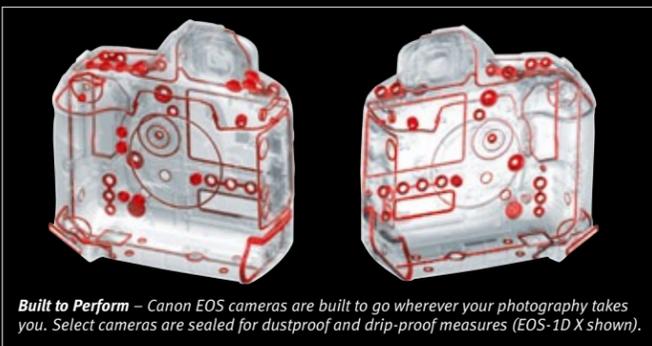
Live View Function – With Live View Function, images can be composed and captured from the camera's LCD monitor, including the ability to zoom in up to 10x.



©Tyler Stableford

### Maximum Durability and Performance

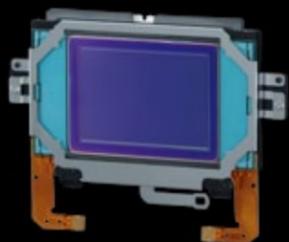
For professionals who demand nothing less than the best, EOS cameras are designed to perform admirably and consistently no matter the situation. Many EOS bodies are constructed of rigid, high-strength magnesium-alloy for rugged performance and professional cameras like the EOS-1D X and EOS 5D Mark III feature weather sealing surfaces and connection points for seamless performance in wet and dusty situations. The EOS-1D X even has a lightweight shutter with carbon-fiber blades that can maintain up to 14.0 fps\* performance without compromise, for up to 400,000 cycles and has a minimum shutter release lag of 36ms (when shooting at maximum aperture).



**Built to Perform** – Canon EOS cameras are built to go wherever your photography takes you. Select cameras are sealed for dustproof and drip-proof measures (EOS-1D X shown).

surface of the sensor's IR-cut/Low-pass filter cleans itself automatically with ultrasonic vibrations every time the camera is turned on or off. Removed dust adheres to material around the filter to help it stay off. With DPP, dust missed by the cleaning unit can be captured by Canon's Dust Delete Data Detection and can be erased from the image file.

with ultrasound, the new system effectively rolls rather than shakes the dust particles off, removing an even greater amount of dust, especially smaller particles. As with previous cameras, the IR/UV absorbing glass in front of



the EOS-1D X's sensor is treated with an anti-dust fluorine coating making it easier to remove damp or sticky dust particles.

### EOS Integrated Cleaning System

EOS Integrated Cleaning System Canon has designed an Integrated Cleaning System with a Self Cleaning sensor unit customized to the specifications and performance characteristics of each EOS camera that helps combat stray dust that can enter the camera when changing a lens or when out in the field. The front

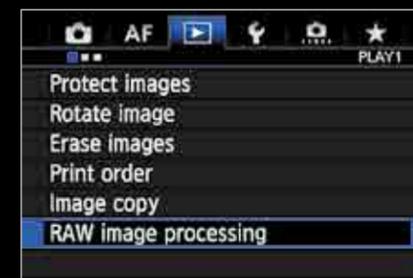
### Ultrasonic Wave Motion Cleaning

Found on the EOS-1D X, Canon's amazing new integrated cleaning dust removal cleaning uses a carrier wave type self-cleaning sensor unit. While previous dust removal systems removed dust adhered to the surface of the infrared absorbing/ultraviolet-blocking glass in a frontward direction by vibrating the glass

### Custom Function

Camera operations are enhanced by Custom Functions, conceptualized and developed by Canon. Custom Functions enable photographers to tailor features and operating functions to suit their own shooting style, or to optimize camera performance for specific subjects, shooting conditions or a signature style.

### Advanced RAW+JPEG Recording (in-camera processing)



In-Camera RAW processing

Best described as “digital negatives”, RAW images contain pre-processed image data as captured by the sensor and, with post-processing, they yield the highest image quality possible from an EOS camera. While professionals and advanced amateurs often prefer to shoot in RAW mode, JPEG images take up significantly less storage space and are often more immediately pleasing to the eye. With Canon's EOS cameras, images can be captured in a number of RAW and JPEG modes, depending on the camera's sensor, as well as record numerous combinations of RAW, sRAW and JPEG images simultaneously. Several models even offer in-camera post processing with image correction options like white balance, brightness, picture style and more, plus image resizing with JPEG images. Additional features include Expanded Quick Control functions during playback like image protect, image rotate, rating, RAW image processing, resize, highlight alert, AF point and image jump, meaning a streamlined workflow can begin in the field.

### Auto Lighting Optimizer

The Auto Lighting Optimizer automatically corrects image exposure to help ensure accurate brightness and contrast. It can actually brighten areas of the composition while maintaining highlight details and accurate exposure in others, or darken areas of composition while maintaining brightness and shadow details in others. This remarkable feature is available as both an automatic feature in Full Auto and Creative Auto shooting



Auto Lighting Optimizer OFF



Auto Lighting Optimizer ON

modes, and can be used and fine-tuned in other modes. The Canon Auto Lighting Optimizer ensures beautifully exposed images that require little to no post-production work.

### Lens Chromatic Aberration Correction



With the new EOS-1D X and its Dual DIGIC 5+ Image Processors, the EOS 6D and EOS 5D Mark III's DIGIC 5+ Image Processor, and the EOS Rebel T4i's DIGIC 5 Image Processor, chromatic aberration in Canon lenses can be corrected at the time of shooting. Select EOS cameras can read the correction data from lenses, and those lenses can be registered to the camera. These cameras can even distinguish between different lenses of the same model by supporting registration of serial numbers (with compatible EF lenses).



Lens Chromatic Aberration Correction ON



Lens Chromatic Aberration Correction OFF

### Lens Peripheral Illumination Correction

Another feature available in Canon's newest EOS cameras is Canon's Lens Peripheral Illumination Correction feature. Taking into account the lens in use, this feature automatically brightens the light level at the four corners of



Lens Peripheral Illumination Correction ON



Lens Peripheral Illumination Correction OFF

the composition where light falloff may have occurred. Peripheral illumination characteristics and correction data are detected automatically on a number of Canon lenses and can be entered manually through Canon's EOS utility software. This function can be applied when shooting to JPEG images, and in post-processing with RAW images.

### Highlight Tone Priority

Loss of highlight detail is one of the greatest concerns for photographers shooting digitally in brightly lit and contrasty situations. Canon's Highlight Tone Priority function calculates the



Highlight Tone Priority: OFF



Highlight Tone Priority: ON

exposure to expand the image's dynamic range so that more detail is preserved in highlights. This renders a more continuous tone image without blown highlights, and helps to save time in post-processing for highlight retrieval.

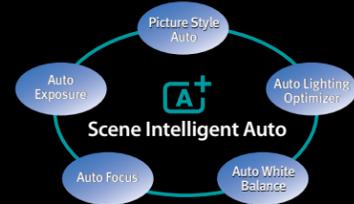
\*The maximum continuous shooting speed is restricted to 10 fps when the battery charge is less than 50% or when ISO speed is above 32000. If the camera's internal temperature is low and ISO speed is above 20000, the maximum continuous shooting speed is restricted to 10 fps.

## Shooting Modes

Beyond normal shooting modes such as Auto, Aperture priority and Shutter priority, select EOS cameras offer shooting features such as Picture Style technology, which optimizes camera settings for subjects like landscapes and portraits, even monochromes. For even more creative imaging freedom, Canon developed Basic+. Basic+ makes it easy to create whatever image effects desired. Basic+ has two initial option categories: In “Shoot by ambiance selection,” standard white balance and exposure compensation are altered according to the chosen ambiance, such as vivid, soft, warm, intense, cool, brighter, darker and monochrome. In “Shoot by lighting or scene type,” white balance is adjusted according to selections like daylight, cloudy, shade, tungsten, fluorescent and sunset. These features, complemented by the Canon Auto Lighting Optimizer, Lens Peripheral Illumination Correction, Highlight Tone Priority and Noise Reduction feature help ensure accurate, nuanced results.



## Scene Intelligent Auto



Scene Intelligent Auto, found on the EOS 5D Mark III, EOS 6D, EOS Rebel T4i and Rebel T3i merges a number of very complex measurements into settings that will ensure photographs of gorgeous tonality, accurate color, sharp focus and phenomenal detail.

## Creative Filters

EOS models like the EOS Rebel T4i, Rebel T3i and EOS 60D borrow several popular creative filters like those found in Canon’s popular PowerShot cameras, like Grainy B&W, Fisheye Effect, Toy Camera Effect and Miniature Effect. The EOS Rebel T4i includes two new filters: Art Bold Effect and Water Painting Effect.

## Multi-Aspect Ratios

For the ultimate in custom shooting, EOS models like the EOS 5D Mark III, EOS 6D, EOS 60D, EOS Rebel T4i and EOS Rebel T3i are able to shoot in a number of aspect ratios, like 4:3, 3:2, 16:9, even 1:1 for square compositions!

## EOS In-camera Features Give Your Photos a Creative Edge:

### Picture Style Settings Help Fine-tune Images to Match Your Scene



**Landscape** – Great for shooting nature scenes and blue skies, this setting enhances the blues and greens typical in landscapes, and enhances saturation, contrast and sharpening.



**Monochrome** – This setting emulates the color filters of silver halide film for bold black and white images and allows for red, green and other types of filter work.



**Twilight** – Capture the subtle vibrancy of colors illuminated by the soft glow of the receding sun using the twilight setting. (Extended Function, online support only.)

### Creative Filters

Fun, in-camera filters give images a unique look:



**Art Bold Effect**



**Water Painting Effect**



**Miniature Effect**

### Multiple Exposure Mode



**Bright** – A number of images are merged into a single image in-camera for incredible creative compositions.



**Continuous Shooting Priority** – Capture fast-action photography on a single image.

### High Dynamic Range Mode



**High Dynamic Range** – The camera automatically takes three shots at different exposures generating a single composite image with a wide dynamic range, great for landscapes.

## Picture Style Technology



With the myriad features and settings available, even the best photographer might occasionally have doubts as to whether all of the camera settings are optimal for the shot. Canon’s ingenious Picture Style feature comes to the rescue, providing a number of user-friendly presets, including standard, neutral and landscape, giving the ability to fine-tune the images the camera produces. They enable the photographer to make optimal choices based simply on the type of shooting. These presets can be used in much the same way one would use different types of film, and more can be created using Canon’s included Picture Style Editor Software. Individual

camera settings—such as sharpening, contrast, color tone, and saturation can be overridden if need be. Select EOS models even feature Picture Style Auto, which automatically determines the best style for a particular scene.

## Multiple Exposure Control



Cameras like the EOS-1D X, EOS 5D Mark III and EOS 6D offer multiple exposure shooting modes for film-like image creation, with the convenience of in-camera processing. It offers up to four compositing methods for proper exposure and composition: additive, average, bright and dark (the EOS 6D features additive and average only). Multiple exposure shots from 2 to 9 are stored as one final image and can be taken in both RAW and JPEG shooting modes.

## High Dynamic Range

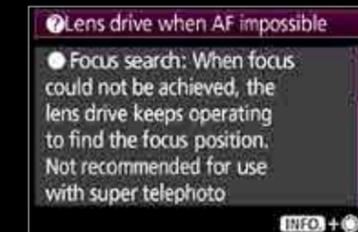


High Dynamic Range

Perfect for capturing scenes with extreme highlights or shadow, HDR (High Dynamic Range) shooting, a feature found on the EOS 5D Mark III and EOS 6D merge three images of varying exposure, in-camera, capturing a broad range of shadow and highlight detail and delivering an image with stunning tonal range. Adjustable to cover a range of  $\pm 3$  stops, and with five different effect settings (Natural, Art Standard, Vivid, Bold and Embossed), on the EOS 5D Mark III, HDR recording expands the parameters of the light and dark detail a camera can actually record, displaying a range of depth and detail previously impossible in image capture.

## Enhanced GUI

### (Feature Guide, Easier Menu System)



While Canon’s Graphical User Interface has long been the industry standard, Canon is constantly refining and developing new features for a smoother user experience. Accordingly, the GUI has been revamped for the EOS-1D X and EOS 5D Mark III based on the response and feedback of professional

users. Its Graphic User Interface is faster, more precise and more intuitive than ever. The menu structure has been redesigned so that frequently used functions previously buried in the menu hierarchy are brought to the front. Operations previously assigned to buttons, controls, menus and custom functions have been consolidated for quick access in the menu, ensuring the photographer can concentrate on shooting images with the knowledge that the camera’s settings are just right. The EOS-1D X, EOS 5D Mark III, EOS 6D, EOS Rebel T4i, EOS Rebel T3i and EOS Rebel T3 offer operational help through the press of the Info button, identifying features quickly, instructing on their use and minimizing confusion, even for photographers operating the camera for the first time.

## Wireless Transmitter Technology

As quickly as the DSLR camera has become commonplace in the hands of professional photographers and enthusiasts alike, so too has wireless communication progressed between the SLR and external components. The EOS DSLRs have a number of dedicated

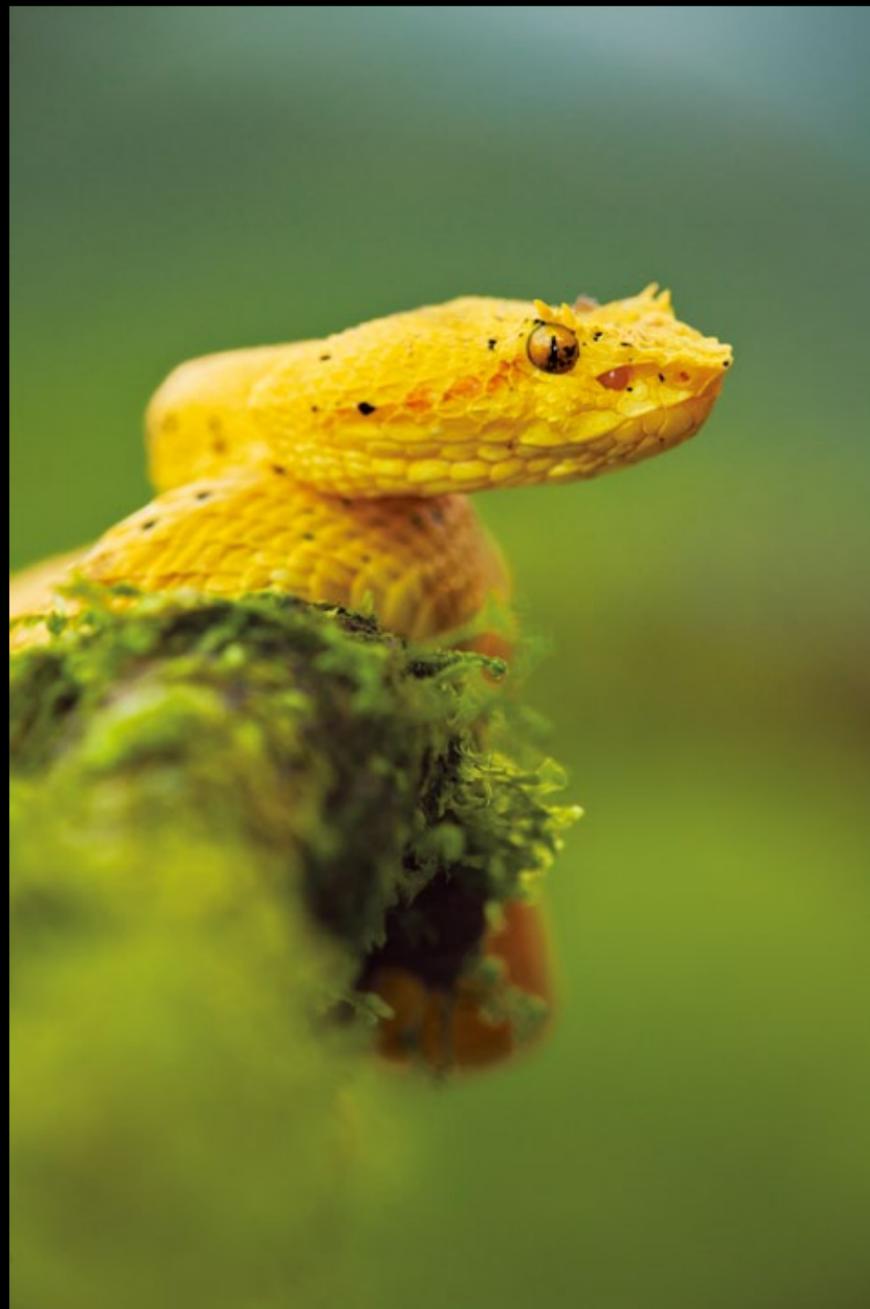


Wireless File Transmitter  
WFT-E6A

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 – some units serve as an auxiliary handgrip – Canon Wireless Transmitters can connect securely to Local Area Networks (LAN) wirelessly (with a range up to approximately 500 feet) or directly, and can connect and upload to FTP (File Transfer Protocol) or dedicated WFT Servers.

**Fast, Reliable Image Data Transfer** – The WFT-E6A (EOS-1D X), WFT-E7A (EOS 5D Mark III), WFT-E5A (EOS 7D), and WFT-E4 II A (EOS 5D Mark II) feature a/b/g compatibility, WPS compatibility, WFT Server Remote Live View, a camera linking function and Bluetooth connectivity. The WFT-E6A and WFT-E7A conform to IEEE 802.11 a/b/g/n standards, performing up to 2.5x faster (for the WFT-E6A) and 3x faster (for the WFT-E7A) than other models, and features an image resend feature that ensures that all images get transferred, even if wireless signal drops interrupt transmission.

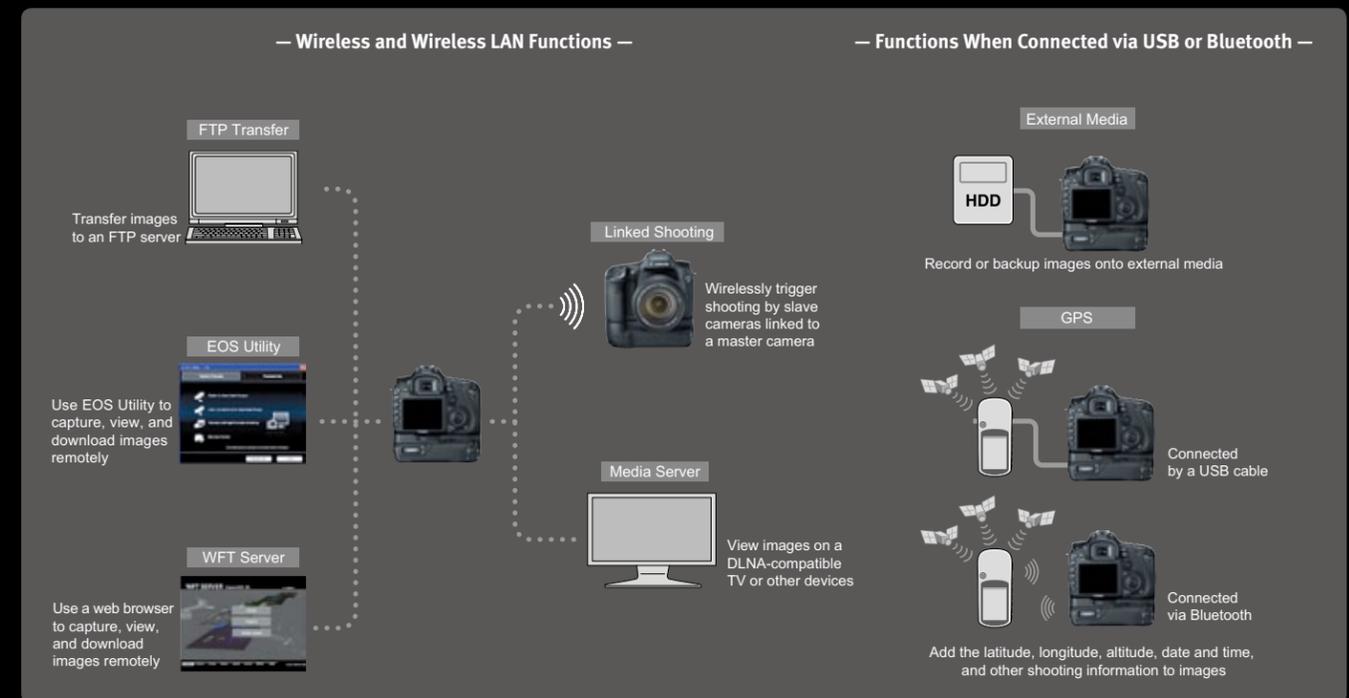
**Media Server Function** – Models such as the WFT-E7A, WFT-E6A and WFT-E5A also include a media server function. With all models, in WFT Server mode, up to three separate computers can access the camera's memory card using a standard Web browser from anywhere in the world (Microsoft Internet Explorer®, 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 a computer. Remote firing of the camera over the Internet is also possible using the Remote Live View function. With the EOS-1D X, EOS 5D Mark III and the EOS 7D, a dedicated media server can also be created with DLNA (Digital Living Network Alliance) compliant devices, allowing numerous points of access to images instantaneously.



©Adam Jones

**Computer Connectivity** – EOS Utility Mode, or PTP (Point-to-Point) connectivity, allows the photographer to connect a single camera to a computer for advanced two-way communication and professional tethered camera operation. WFT units can also connect to select GPS<sup>†</sup> units adding location and time code shooting data. Plus, WFT models can be used as remote control receivers, allowing for wireless shooting and control, from a range of Wi-Fi enabled handheld devices including smartphones.

**USB Host Capability with GPS Support** – Photographers can take full advantage of the WFT unit's USB host capability\* by connecting a compatible GPS device via USB cable or optional Bluetooth dongle. This makes it possible to add GPS coordinates, altitude and UTC time code to embedded shooting data within image files. Compatible GPS units include several in Garmin's GPSMAP series and in the Magellan eXplorist series (using NMEA 0183 v.2.0.1 output data standard or "Garmin protocol").



USB Host capability also allows connectivity to some external hard drives for added storage options.

**Weather-Resistant Design** – The WFT units designed for the EOS-1D class professional DSLRs feature rugged and lightweight magnesium-alloy bodies, just like the cameras to which they attach. Moreover, they feature the same fully sealed construction, ensuring that the highly weather-resistant design of the camera is not compromised.

**Extensive Wired and Wireless LAN Functions** – Select WFT units not only support wireless LAN environments but also enable wired network connections, providing high-speed 100Base-TX communication (the WFT-E7A supports 1000Base-T).\*\* Built-in WPS (Wi-Fi Protected Setup) makes it easy to make secure LAN connections.

**Linked Multi-Camera Shooting** – Using multiple WFT units on compatible EOS digital cameras,

up to ten Slave/Remote cameras can be linked wirelessly to a master camera. Connections are made simply and conveniently via wireless LAN. Remote camera shutters are automatically tripped when the master camera shutter is released. With such a setup, a photographer can, for example, shoot simultaneously from various angles.

### Built-in Wireless & GPS with EOS Remote App

The EOS 6D features built-in Wi-Fi<sup>®</sup> and GPS capabilities, incorporating cutting edge technology into the camera's compact and lightweight design. And with Canon's exclusive EOS Remote App<sup>‡</sup> and built-in Wi-Fi<sup>®</sup>, the camera can connect directly to a smartphone<sup>‡</sup> for remote operation. Exposure settings, focus and shutter can be operated wirelessly; images can be reviewed, rated, deleted, filed and transferred. Full DLNA (Digital Living Network Alliance) compatibility means easy sharing between the EOS camera and other DLNA certified products, like HDTVs, game consoles and more. Images from the camera can

be uploaded instantly to CANON iMAGE GATEWAY<sup>#</sup> for easy sharing, and photos can even be printed directly and wirelessly to Wi-Fi<sup>®</sup> compatible printers<sup>^</sup> without the need for a PC. With built-in GPS<sup>††</sup>, the EOS camera can record longitude, latitude and altitude data as EXIF data, has a logging function that can track movement at set intervals and can even set the camera's internal clock to local time!

### Expandable Accessories

The GPS Receivers GP-E1<sup>†</sup> and GP-E2<sup>†</sup> attach to the EOS-1D X and EOS 5D Mark III respectively. The receivers offer the same dust and waterproof protection as the camera body itself; the GP-E2 even features its own power supply. GPS Receiver GP-E2 can also connect to the EOS 6D and EOS Rebel T4i via hot shoe or a digital terminal. Canon GPS receivers are always ready to append location data to images. They record latitude, longitude/elevation and UTC time, and feature GPS Time Sync Function and even an electronic compass that records the camera's orientation when shooting<sup>††</sup>.

\* The WFT-E6A and WFT-E7A provide an internal Bluetooth function but do not have USB host capability. A dedicated GP-E1 accessory is available for the EOS-1D X. USB Host functionality is available only on the WFT-E2 II A, WFT-E5A, and WFT-E4A.

\*\* The WFT-E6A has no provision for wired LAN connectivity because the EOS-1D X is equipped with a Gigabit Ethernet port.

1 This software enables you to upload images to social network services. Before uploading images, please be aware that image files may contain privacy related information such as people and places. If necessary, please delete such information. Canon does not obtain, collect or use such images or any information included in such images through this software.

2 Compatible with iOS version 5.0 or later and Android devices version 2.3/4.0 or later. Data charges may apply.

# One-time registration is required on CANON iMAGE GATEWAY.

^ DPS over IP certified printer is required.

† The GP-E1 does not require any additional USB or Bluetooth connections to communicate with the EOS-1D X. The EOS 5D Mark III requires a firmware upgrade to be compatible with the GPS Receiver GP-E2, which is now available.

†† In certain countries and regions, the use of GPS may be restricted. Therefore, be sure to use GPS in accordance with the laws and regulations of your country or region. Be particularly careful when traveling outside your home country. As a signal is received from GPS satellites, take sufficient measures when using in locations where the use of electronics is regulated.



# EOS 6D

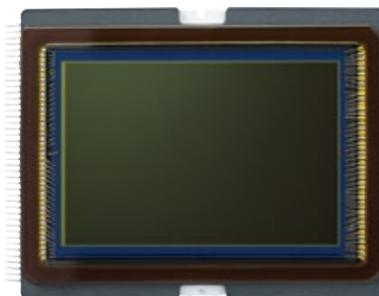
## Unlock Your Vision

Designed to bring all of the benefits of full-frame photography and moviemaking to a compact, lightweight and simple to operate DSLR, the EOS 6D is the perfect camera to realize your creative vision. The EOS 6D features a 20.2 Megapixel Full-Frame CMOS sensor, Canon's amazing **DiGiC 5+** Image Processor, a 63-zone AE sensor, and an 11-point AF system with a center point light sensitive to EV -3 for exceptional performance even in low-light conditions. The camera has a newly designed, bright viewfinder and a brilliant 3.0-inch Clear View LCD monitor, and offers advanced, professional level HD capture for beautiful, cinematic HD quality movies, can shoot up to 4.5 frames per second, offers an extensive ISO range and conveniently features built-in Wi-Fi® and GPS! It's the ideal camera for advanced amateurs and videographers making the move to a Full-Frame DSLR, as well as professionals seeking a secondary camera. Whatever your inspiration, unlock your vision with the power of the EOS 6D.



### 20.2 Megapixel Full-Frame CMOS sensor

The EOS 6D features a newly developed 20.2 Megapixel CMOS sensor for exceptional full-frame performance. With no conversion factor, the EOS 6D's sensor ensures that lenses mounted on the camera will deliver the same angle of view they would on a traditional 35mm camera. A new, enhanced manufacturing process delivers a more sensitive sensor, with wider dynamic range and a superb signal-to-noise ratio for phenomenal performance and impressively detailed images. The sensor captures images of 5496 x 3861 effective pixels with a pixel size of 6.55 μm square for fantastic detail, and has a high-speed 4-channel readout enabling 4.5 frames per second performance. Optimized for low power consumption in addition to being lightweight and compact, it's the perfect sensor for the EOS 6D.



EOS 6D Full-Frame CMOS Sensor (Actual Size)

### DiGiC 5+ Image Processor

The EOS 6D's **DiGiC 5+** Image Processor delivers supercharged performance and features new algorithms that promote greater noise reduction at higher ISOs. With the power of the **DiGiC 5+** Image Processor, speed improvements are noticeable from the instant the EOS 6D is turned on with stunning, responsive performance recording movies and capturing 4.5 still frames per second. For high-speed analog to digital conversion, the EOS 6D complements the **DiGiC 5+** Image Processor with a 4-channel front end processing circuit for speedy 4-channel full-frame capture. Meanwhile, the **DiGiC 5+** Image Processor completes real-time scene correction like HDR Backlight control and Handheld Night Scene plus MultiShot Noise Reduction and much, much more.



### Wide ISO Range (100–25600)

Working in tandem with the EOS 6D's **DiGiC 5+** Image Processor, the camera's Full-Frame CMOS sensor delivers ISO sensitivities of 100–25600 (with expanded sensitivities of L: 50, H1: 51200, H2: 102400), achieving images of amazing detail and reduced noise in even the sparsest lighting situations.

### iFCL Metering

The EOS 6D features Canon's multi-layer 63-zone iFCL (intelligent Focus Color Luminance) Metering System that integrates the camera's AF system into its readings. By taking into account the color and luminosity surrounding the chosen AF point(s), the iFCL system delivers a superb level of accuracy, especially in situations where the light changes quickly. The metering sensor enables evaluative, center weighted, partial and spot metering, plus offers 5-step exposure compensation for perfectly exposed images, every time.

### 11-point AF System (Center point EV -3)

The EOS 6D has a brand new, 11-point AF system for fast, accurate autofocus no matter the situation. With its new centered cross-type AF point (at f/5.6) with EV -3 sensitivity plus a newly developed



11-point, Center point is cross-type AF System

high defocus control support, the EOS 6D has incredible AF performance, even in dim light. Offering One-Shot AF, AI Servo AF, and AI Focus AF, the EOS 6D's AI Servo focus can be customized with tracking, acceleration and deceleration tracking sensitivities and 1st or 2nd image priority adjustments. The AF Microadjustment allows photographers to adjust both the telephoto and wide angle ends of lenses, for even more focus accuracy. This amazing AF system is complemented by the EOS 6D's bright 21mm eye point viewfinder with 97% coverage for easy composition.

### EOS Full HD Video

The EOS 6D captures Full HD video with a level of sophistication on par with professional movie cameras, offering incredible performance on a DSLR. It offers both All-I (UHS-I memory card is required) and IPB compression, supports H.264 /MPEG-4 AVC High Profile, and automatically splits files greater than 4GB (FAT specifications) for extended recording without interruption. It offers the option of timecoding during recording only (Rec Run) or at all times (Free Run), useful for multi-camera shoots. It also features improved sound recording adjustment capabilities, offering 64-step volume control accessible through the Quick Control screen, plus a dedicated microphone jack for convenience in shooting. The CMOS sensor's drive system significantly increases image processor performance, reducing color artifacts and moiré (a common problem that occurs in scenes with fine parallel lines), and ensures that the EOS 6D can record at a number of frame rates up to ISO 25600 in H mode. Exposure, focus and Live View features, even in-camera editing, are simple to control with the EOS 6D's clear and intuitive interface.

Resolution	fps		Recording Time (min.)	
			8GB Card	16GB Card
1920 x 1080 (Full HD)	30P (29.97)	All-I	11 min.	22 min.
		IPB	32 min.	64 min.
	25P	All-I	11 min.	22 min.
		IPB	32 min.	64 min.
24P (23.976)	All-I	11 min.	22 min.	
	IPB	32 min.	64 min.	
1280 x 720 (HD)	60P (59.94)	All-I	12 min.	25 min.
		IPB	37 min.	74 min.
	50P	All-I	12 min.	25 min.
		IPB	37 min.	74 min.
640 x 480 (VGA)	30P (29.97)	IPB	97 min.	194 min.
	25P	IPB	97 min.	194 min.

### Durable Construction

The EOS 6D is designed to be portable, light and simple to operate yet maintains the build quality one expects from EOS DSLRs. With an aluminum alloy and polycarbonate chassis and a magnesium, polycarbonate resin and glass fiber exterior, plus a shutter rated to 100,000 cycles, the EOS 6D offers the perfect combination of lightweight and rugged materials for reliable operation day after day.



4.5 fps continuous shooting

**4.5 fps Continuous Shooting**

The EOS 6D complements its full-frame sensor with fast performance across the board. Thanks to a front end, 4-channel A/D converter and the DIGIC 5+ Image Processor, a twin-motor configuration with dedicated high-speed motors for the mirror-drive and shutter charge, and a smaller and lighter shutter system, the EOS 6D can capture up to 4.5 frames per second. The new mirror and shutter configuration make less noise and vibration for quiet camera operation. The EOS 6D even has a fast flash sync speed of 1/180 sec. for high-performance photography, no matter the light.



**3.0-inch Clear View LCD monitor**

For composing or reviewing of images in Live View, the EOS 6D features a high resolution 1,040,000 pixel, 3.0-inch Clear View LCD monitor with the same 3:2 aspect ratio as its Full-Frame sensor. It offers 100% coverage, is viewable from 160° vertically and horizontally, and can be set to one of 7 levels of brightness. Its cover has a new, smudge resistant, anti-reflection coating for enhanced, low-glare viewing, even in bright light.



**Electronic Level**

Viewable in both the LCD monitor and viewfinder, the EOS 6D's electronic level is an indispensable tool for critical compositions



LCD menu options

when the level has to be just right. When viewed through the viewfinder, it displays horizontal tilt up to 9° in 1° increments. When viewed on the monitor, it displays horizontal tilt in 1° increments within 360°, and can be displayed alone or superimposed over the image in Live View shooting mode.



During Live View shooting

**Composition Assist Grid**

To assist in composition, the EOS 6D has a number of different grids available: 3x3, 6x4, plus 3x3+diagonal. In addition, the EOS 6D can shoot in different aspect ratios of 3:2, 4:3, 16:9, and even 1:1 square.

**Silent Mode**

When remaining discreet is a priority, the EOS 6D has a silent mode where the mirror and shutter are slowed for more quiet operation. Silent mode is available with both single frame and continuous shooting.

**SD Card compatibility**

The EOS 6D uses popular SD, SDHC, SDXC memory and it is even compatible with the newest Ultra High Speed (UHS-I)

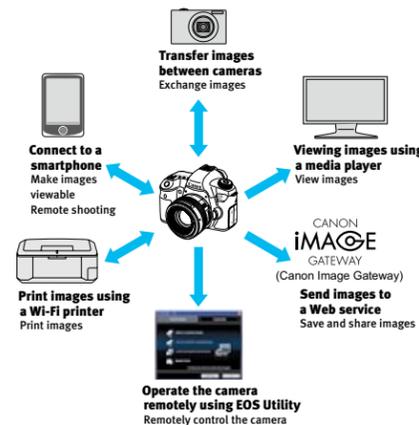


memory cards. Compact, inexpensive and available in large capacities, SD, SDHC and SDXC memory cards are perfect for saving the high quality images captured by the EOS 6D's Full-Frame sensor.

**Built-in Wi-Fi® & GPS**



The EOS 6D features Wi-Fi® and GPS## capabilities, conveniently built in. Connecting easily to a network or directly to an iOS or Android smartphone\* running Canon's new EOS Remote app\*\*, a number of camera functions can be controlled wirelessly, and images can be reviewed, rated, deleted, filed and transferred. The EOS 6D is also fully DLNA (Digital Living Network Alliance) compatible for easy sharing between the camera and other DLNA products, like HDTVs, game consoles and more. Images can be shared through CANON IMAGE GATEWAY®, and photos can even



be printed directly and wirelessly to Wi-Fi® enabled printers^ without the need for a PC. The EOS 6D's built-in GPS can record longitude, latitude and altitude data as EXIF data, has a logging function that can track movement at set intervals and can even set the camera's internal clock to local time!

**Shooting Modes (Basic+, Creative Auto)**

Beyond normal shooting modes such as Auto, Aperture-priority



and Shutter-priority, the EOS 6D offers shooting features that optimize camera settings for subjects like landscapes and portraits, even monochromes. For even more creative imaging freedom, Basic+ and Creative Auto (CA) modes are simple ways to customize images while maintaining automatic settings. Basic+ makes it easy to create whatever image effects are desired. Basic+ has two initial option categories: In "Shoot by ambiance selection," standard white balance and exposure compensation are altered according to the chosen ambiance, like vivid, soft, warm, intense, cool, brighter, darker and monochrome. In "Shoot by lighting or scene type," white balance is adjusted according to selections like daylight, cloudy, shade, tungsten, fluorescent and sunset. These features, complemented by Canon's Auto Lighting Optimizer, Lens Peripheral Illumination Correction, Highlight Tone Priority and Noise Reduction features help ensure accurate, nuanced results. In Creative Auto mode, it's simple to control parameters like depth-of-field, flash mode, Picture Style settings and image quality without risk of a faulty exposure.

**HDR Mode**

With its new High Dynamic Range mode, the EOS 6D can merge 3 images of varying exposure, in camera, capturing a broad range of shadow and highlight detail and delivering a final image with stunning tonal range. Adjustable to cover a range of



Three Images are merged.

Final HDR image

±3 stops, HDR recording with the EOS 6D expands the range of the light and dark detail the camera can record, creating an image with an impressive range of detail in the brightest and darkest areas of the composition.

**Multiple Exposure Mode**

The EOS 6D has a Multiple Exposure mode for film-like image creation with the convenience of in-camera processing. It offers two different compositing methods for proper exposure and composition: additive or average. Multiple exposure shots from 2



to 9 are stored as one final image and can be taken in both RAW and JPEG shooting modes. A RAW image previously captured by the EOS 6D (3:2 aspect ratio only) can be used as a starting point, and cumulative results can be observed and corrected in real time on the camera's LCD screen.

**Handheld Night Scene Mode**

Handheld Night Scene mode captures nightscapes with bright highlights and detailed dark areas, delivering results previously impossible without the use of a tripod. By shooting and combining four consecutive shots at a shutter speed fast enough to avoid camera shake, the EOS 6D's Handheld Night Scene mode makes dramatic nighttime photography simple.



Handheld Night Scene mode

**HDR Backlight Correction**

The EOS 6D's HDR Backlight Control mode ensures that backlit subjects are not recorded too dark. By shooting three consecutive shots at different exposures (underexposed, correctly exposed and overexposed) and then combining the images, the final result maintains detail in both the shadow and highlight areas, ensuring the backlit subject is properly exposed.



HDR Backlight Control mode OFF

HDR Backlight Control mode ON

**Highlight Tone Priority**

With highlight tone priority activated, the EOS 6D shifts the exposure to capture the tonal details in the bright areas of the images. It's a welcome feature that helps to minimize washed out detail in critical areas of the composition, and is available with ISOs of 200–6400.

**Auto Lighting Optimizer**

With Auto Lighting Optimizer enabled, the EOS 6D recognizes the current lighting conditions (ambient, backlight, flash) and type of subject (person or not) and automatically determines the optimal tonal compensation. This can prevent blown out highlights and maintain shadow detail that might otherwise be eliminated in recording. The Auto Lighting Optimizer even uses the subject recognition advantages of the EOS 6D's AE system to obtain a more consistent effect.



Auto Lighting Optimizer OFF



Auto Lighting Optimizer ON

**Picture Style Settings**

The EOS 6D not only features a number of Canon's Picture Style settings but also Picture Style Auto to control color tones for every composition, based on information from the camera's EOS Scene Detection System. This can be an effective feature not only in normal scenes, where standard "punchy" contrast will be used, but also in nature and outdoor scenes, where the blues and greens will look more vivid without the need to switch the camera's Picture Style to Landscape.



\* Compatible with iOS version 5.0 or later and Android devices version 2.3/4.0 or later. Data charges may apply.  
 \*\* The EOS Remote app will be available soon. This software enables you to upload images to social network services. Before uploading images, please be aware that image files may contain privacy related information such as people and places. If necessary, please delete such information. Canon does not obtain, collect or use such images or any information included in such images through this software.  
 # One-time registration is required on CANON IMAGE GATEWAY.  
 ## In certain countries and regions, the use of GPS may be restricted. Therefore be sure to use GPS in accordance with the laws and regulations of your country or region. Be particularly careful when traveling outside your home country. As a signal is received from GPS satellites, take sufficient measures when using in locations where the use of electronics is regulated.  
 ^ DPS over IP certified printer is required.



©Tyler Stableford

# EOS-1D X

FIRMWARE VERSION  
**1.1.1**  
UPDATE  
Now Available\*\*

## The Ultimate EOS

Canon has brought the best of the EOS-1 Series of digital cameras into one phenomenal, go anywhere, shoot anything dynamo: the new flagship of the EOS line, the EOS-1D X. With a full-frame 18.1 Megapixel CMOS sensor, all-new Dual **DiGiC 5+** Image Processors, image capture at 12.0 fps\* (14.0 fps in Super High Speed Mode), faster, more accurate and customizable AF\*\*, plus an all-new 100,000-pixel RGB Metering Sensor with its own **DiGiC 4** Image Processor, the EOS-1D X reaches new levels of performance with speed, continuous shooting, focus and metering accuracy, light sensitivity, and ease of use. With rugged construction, improved HD video capture, numerous connectivity options, and much, much more, the EOS-1D X is truly the ultimate EOS.



**18.1** MEGA PIXELS CMOS  
**DiGiC 5+**  
**FULL FRAME** CMOS  
**Picture Style**  
**FULL HD** 1080  
**Up to 12.0** Frames Per Sec  
**LiveView** MODE  
**ISO** 51200 / 25600  
**61** High Density Reticular AF  
**EOS** Integrated Cleaning System  
**3.2" WIDE** ClearView II  
**DIRECT PRINT**  
**PictBridge**  
**USB**

\* The maximum continuous shooting speed is restricted to 10 fps when the battery charge is less than 50% or when ISO speed is above 32000. If the camera's internal temperature is low and ISO speed is above 20000, the maximum continuous shooting speed is restricted to 10 fps.  
 \*\* With firmware update, AF points in the EOS-1D X's viewfinder can now be illuminated in red (intermittently) when the shutter button is pressed halfway during AI Servo AF mode. Additionally, the EOS-1D X allows cross-type autofocus with the center AF point when the maximum aperture of a Canon EF lens becomes f/8 with an EF extender attached.  
 Download firmware now at: [usa.canon.com/eos1dxfirmwareupdate](http://usa.canon.com/eos1dxfirmwareupdate)



# EOS 5D Mark III

## The Power to Create

For stunning high resolution, full-frame photography with supercharged EOS performance, there's simply no match for the EOS 5D Mark III. With a brand new full-frame 22.3 Megapixel Canon CMOS sensor, Canon's amazing new **DiGiC 5+** Image Processor, a 61-Point High Density Reticular AF, dual card slots and shooting performance up to 6.0 fps, the refined EOS 5D Mark III is designed to perform. With an extended ISO range of 100–25600 (expandable to 50 (L), 51200 (H1) and 102400 (H2)), a new intelligent viewfinder and Canon's advanced iFCL Metering System, plus HDR, multiple exposure, refined HD movie recording and more, the EOS 5D Mark III is one of the most user-friendly, professional level, full-frame EOS ever.



**22.3** MEGA PIXELS CMOS  
**DiGiC 5+**  
**FULL FRAME** CMOS  
**Picture Style**  
**FULL HD** 1080  
**Up to 6.0** Frames Per Sec  
**LiveView** MODE  
**ISO** 25600 / 12800  
**61** High Density Reticular AF  
**EOS** Integrated Cleaning System  
**3.2" WIDE** ClearView II  
**DIRECT PRINT**  
**PictBridge**  
**USB**



# EOS 5D Mark II

## High Performance for High Expectations

For phenomenal full-frame performance in a compact and easy to use digital SLR, look no further than the brilliant EOS 5D Mark II. Featuring the ability to capture video in Full HD with its large full-frame CMOS sensor, it is an exciting tool not just for photographers, but also for videographers and cinematographers as well. It has a 21.1 Megapixel Canon CMOS sensor, a **DiGiC 4** Image Processor for speed, offers an extended ISO range and Live View shooting. Whether in the hands of a wedding photographer, capturing breathtaking landscapes, on a movie set, or anywhere in between, the EOS 5D Mark II helps bring photographic brilliance.



**21.1 MEGA PIXELS CMOS** | **DiGiC 4** | **FULL FRAME CMOS** | **FULL HD 1080** | **Picture Style** | **3.9 Frames Per Sec** | **LiveView MODE**  
**EOS** | **Integrated Cleaning System** | **3.0" LCD** | **DIRECT PRINT** | **PictBridge** | **USB**

# EOS 7D

## Beyond the Still

With a host of phenomenal features designed to enhance and speed-up every facet of the photographic and moviemaking process, the cutting-edge EOS 7D represents the next level of photographic and filmmaking performance. With its 18.0 Megapixel CMOS sensor and Dual **DiGiC 4** Image Processors, it shoots amazing stills and Full HD video without compromise. It has a bright and customizable Intelligent Viewfinder with approximately 100% coverage, a newly enhanced AF system, plus rugged, refined construction for reliable pro-level performance anywhere, any time.

FIRMWARE VERSION **2.0X** UPGRADE  
Now Available\*



**18.0 MEGA PIXELS CMOS** | **DiGiC 4** | **All Cross-type point 19 AF** | **Intelligent Viewfinder** | **FULL HD 1080** | **8.0 Frames Per Sec** | **63 ZONE Dual-Layer Metering** | **ISO 6400**  
**LiveView MODE** | **EOS** | **Integrated Cleaning System** | **3.0" LCD** | **ClearView II** | **Picture Style** | **DIRECT PRINT** | **PictBridge** | **USB**

\*Download firmware now at: [usa.canon.com/eos7dfirmwareupgrade](http://usa.canon.com/eos7dfirmwareupgrade)



# EOS 60D

## An EOS with Perspective

For photographers and enthusiasts looking for a camera with the perfect combination of versatility, performance and ease-of-use, Canon has introduced the EOS 60D. Featuring a brilliant Canon 18.0 Megapixel CMOS sensor, a **DiGIC 4** Image Processor, a Vari-angle 3.0-inch Clear View LCD monitor with 180° rotation — perfect for self-portraits — plus a host of features inspired by Canon professional EOS DSLRs, the EOS 60D is powerful, compact and lightweight, perfect for a day of shooting. It offers 5.3 fps maximum performance, Full HD video, a flash sync of 1/250 sec, and a shutter that's durability tested to 100,000 cycles. It features a horizontal Electronic Level display, accepts interchangeable focus screens and has a number of exciting in-camera functions. With all this and more, the EOS 60D offers a powerful image-capturing perspective.



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# EOS REBEL T4i

## Inspiration On Demand

The new and sophisticated EOS Rebel T4i combines the best of EOS technologies to make advanced photography simple and fun. It has an 18.0 Megapixel APS-C CMOS sensor and a powerful new **DiGIC 5** Image Processor for creating incredibly detailed images. A 9-point all cross-type AF system (including a high-precision dual cross f/2.8 center point) delivers improved autofocus performance, and new Hybrid CMOS AF increases autofocus speed when shooting photos and video in Live View. Movie Servo AF provides continuous focus of moving subjects for even more control while recording video; and a first ever for an EOS Rebel Camera, the EOS Rebel T4i features a Vari-angle Touch Screen 3.0-inch Clear View LCD monitor II, which allows fast and intuitive camera operation. Add compatibility with Canon's EF and EF-S lenses and a family of EOS accessories, the EOS Rebel T4i unlocks the door to creativity!



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# EOS REBEL T3i

## The REBEL on the Move

Photographers looking for an easy-to-use camera that will help them create their next masterpiece need look no further than the Canon EOS Rebel T3i. The next in a long line of phenomenal compact DSLRs, the EOS Rebel T3i continues the Rebel tradition of easy operation, compact design and no-compromise performance. Featuring Canon's **DiGiC 4** Image Processor and an 18.0 Megapixel CMOS sensor – plus cutting-edge technologies like a Vari-angle 3.0-inch Clear View LCD monitor, Full HD 1080p video recording, Live View shooting and Wireless flash photography – the Rebel T3i offers the best of EOS photography in a compact package.



**18.0** MEGA PIXELS CMOS  
**DiGiC 4**  
**ISO 6400**  
**63** ZONE Dual-Layer Metering  
**FULL HD 1080**  
 Vari-angle LCD  
**3:2 WIDE** 3.0" LCD  
**A+** Scene Intelligent Auto  
**LiveView** MODE  
**3.7** Frames Per Sec  
**EOS** Integrated Cleaning System  
**Picture Style**  
**SDXC**  
**DIRECT PRINT**  
**PictBridge**



# EOS REBEL T3

## The Beauty of Simplicity

Perfect for photographers ready to make the move to digital SLR photography, the EOS Rebel T3 delivers beautiful photos and video, speed, simplicity and fun. It features a 12.2 Megapixel CMOS Image Sensor and Canon **DiGiC 4** Image Processor for richly detailed images and quick camera response. It has Canon's amazing 63-zone, Dual-layer metering for accurate exposures and features Canon's Basic+ function, HD video recording and Live View shooting. Innovative features, such as an on-screen Feature Guide and Quick Control screen, help the photographer use the camera's advanced capabilities to capture spectacular images.



**12.2** MEGA PIXELS CMOS  
**DiGiC 4**  
**ISO 6400**  
**63** ZONE Dual-Layer Metering  
**2.7"** LCD  
**LiveView** MODE  
**3** Frames Per Sec  
**Picture Style**  
**DIRECT PRINT**  
**PictBridge**



## EOS M

### Creativity in Motion

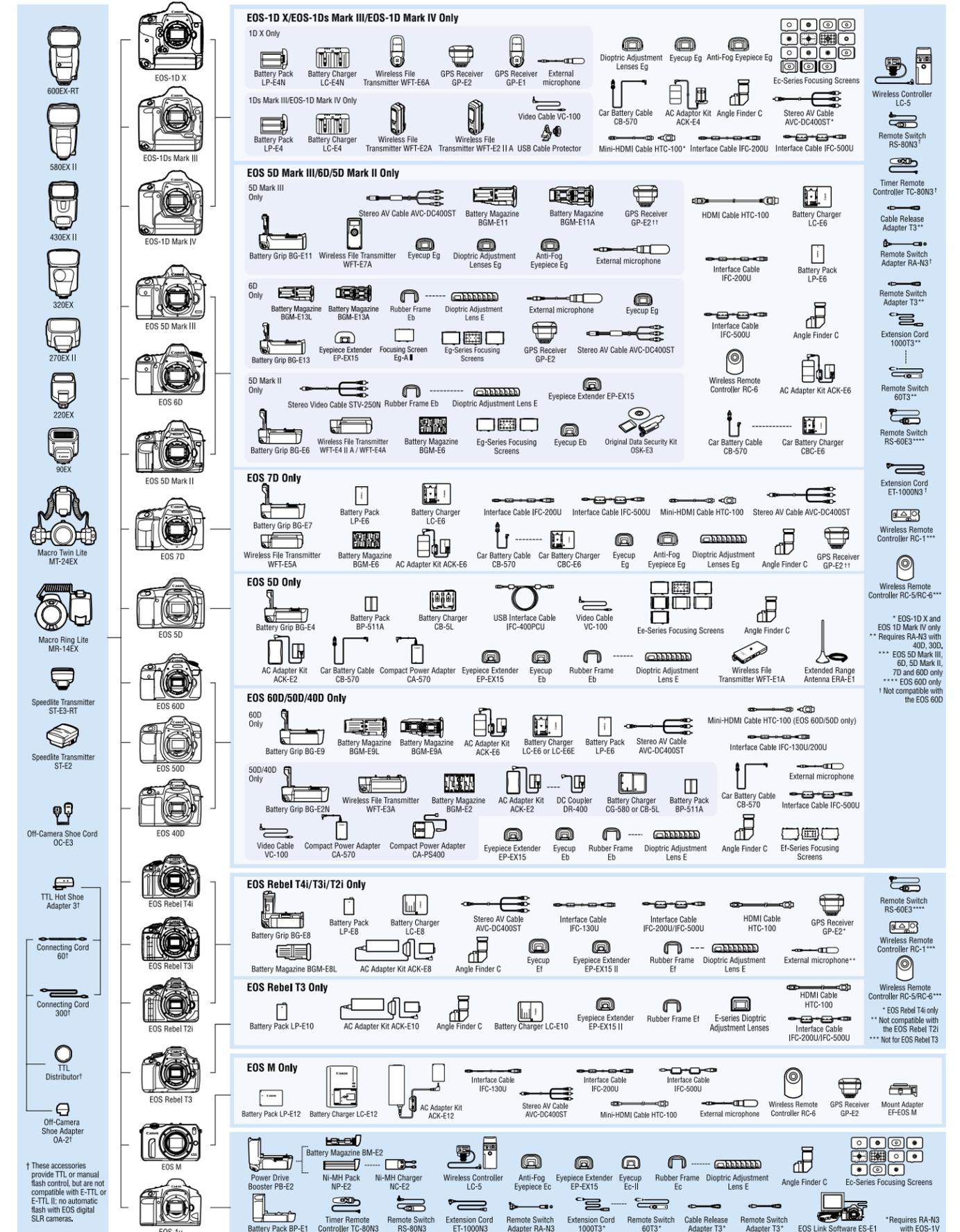
The new EOS M Digital Camera brings the moviemaking and still image performance of EOS to a highly portable system. The EOS M Digital Camera captures Full HD video with smooth, quiet and continuous autofocus with intuitive controls and phenomenal optics. The camera's AF system is made possible by its Movie Servo AF mode, Canon's brilliant STM lenses, advanced CMOS sensor technology, and the powerful DIGIC 5 Image Processor. The EOS M Digital Camera leverages these technologies to deliver high-quality moving and still images with the advanced features and outstanding performance of the EOS series. With the optional Mount Adapter EF-EOS M, the EOS M Digital Camera is compatible with the entire line of Canon's EF and EF-S lenses for complete versatility. As a tool emboldening the creative photographer and moviemaker, the EOS M is truly creativity in motion.



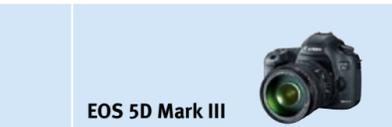
**18.0 MEGA PIXELS** CMOS  
**DIGIC 5**  
**FULL HD 1080**  
**ISO 12800**  
**6400**  
**3:2** ClearView II  
**LiveView MODE**  
**Hybrid CMOS AF**

**Scene Intelligent Auto** | **EOS** Integrated Cleaning System | **EOS System Accessories** | **Picture Style** | **DIRECT PRINT** | **PictBridge** | **USB**

## EOS System Chart



EOS Camera Comparison Chart

	 EOS-1D X	 EOS 5D Mark III	 EOS 6D	 EOS 5D Mark II	 EOS 7D	 EOS 60D	 EOS Rebel T4i	 EOS Rebel T3i	 EOS Rebel T3	 EOS M	
<b>DSLR</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	
<b>Autofocus System</b>	61-Point High Density Reticular AF with Offset Array Sensor; TTL-AREA-SR AF-dedicated CMOS Sensor with 41 cross-type points (lens dependant) One-Shot and AI Servo AF III with EOS iTR AF; Manual focusing confirmation possible with EF lenses; Automatic or manual focus point selection	61-Point High Density Reticular AF with Offset Array Sensor; TTL-AREA-SR AF-dedicated CMOS Sensor with 41 cross-type points (lens dependant) One-Shot and AI Servo III AF; Manual focusing confirmation possible with EF lenses; Automatic or manual focus point selection	TTL-CTSR AF CMOS Sensor (only the center point is cross-type); One-Shot and AI Servo with Focus Prediction; AI Focus AF; Manual focusing confirmation possible with EF lenses; Automatic or manual point selection	TTL-CTSR AF 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-CTSR 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-CTSR AF-dedicated 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	TTL-CTSR AF CMOS Sensor (all points are cross-type); One-Shot and AI Servo with Focus Prediction; AI Focus AF; Manual focusing confirmation possible with EF and EF-S lenses; Automatic or manual point selection	TTL-CTSR AF CMOS Sensor (all points are cross-type); One-Shot and AI Servo with Focus Prediction; AI Focus AF; Manual focusing confirmation possible with EF and EF-S lenses; Automatic or manual point selection	TTL-CTSR AF CMOS Sensor (only the center point is cross-type); One-Shot and AI Servo AF with Focus Prediction; AI Focus AF; Manual focusing confirmation possible with EF and EF-S lenses; Automatic or manual point selection	TTL-CTSR AF CMOS Sensor (only the center point is cross-type); One-Shot and AI Servo AF with Focus Prediction; AI Focus AF; Manual focusing confirmation possible with EF and EF-S lenses; Automatic or manual point selection	TTL-CTSR AF CMOS Sensor; One-Shot AF with Focus Prediction and AI Servo AF; Manual focusing confirmation possible with EF, EF-S, EF-M lenses; Automatic or manual point selection
<b>Image Processor / Image Sensor</b>	Dual DIGIC 5+ and dedicated DIGIC 4 for metering / 36 x 24mm, Single-plate CMOS Sensor with Ultrasonic Wave Motion Cleaning	DIGIC 5+ / 36 x 24mm, Single-plate CMOS Sensor with Ultrasonic Cleaning	DIGIC 5+ / 35.8 x 23.9mm 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 / 22.3 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	DIGIC 5 / 22.3 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	DIGIC 4 / 22.0 x 14.7mm single-plate CMOS Sensor	DIGIC 5 / 22.3 x 14.9mm single-plate CMOS sensor with Auto Sensor Cleaning	
<b>Crop Factor</b>	1.0x (Full-Frame)	1.0x (Full-Frame)	1.0x (Full-Frame)	1.0x (Full-Frame)	1.6x (APS-C)	1.6x (APS-C)	1.6x (APS-C)	1.6x (APS-C)	1.6x (APS-C)	1.6x (APS-C)	
<b>Special Features</b>	<ul style="list-style-type: none"> <li>18.1 Megapixel CMOS DSLR camera</li> <li>Built-in 3.0" (approx. 1,040,000 dots) wide viewing angle color monitor</li> <li>31 Custom Functions in 3 sets</li> <li>2 Multi-controllers</li> <li>Simultaneous RAW and JPEG image capture</li> <li>Multiple Exposures (4 modes)</li> <li>Dioptric adjustment</li> <li>Depth-of-field preview</li> <li>FE Lock</li> <li>Mirror lock</li> <li>In-camera RAW processing</li> <li>Star rating system</li> <li>Magnesium-alloy body</li> <li>Picture Style</li> <li>Dust reduction feature</li> <li>Live View Function &amp; Face Detection Live mode</li> <li>Full HD Video</li> <li>SMPT-E Time Code</li> <li>Intelligent Viewfinder</li> <li>Lens aberration correction</li> </ul>	<ul style="list-style-type: none"> <li>22.3 Megapixel CMOS DSLR camera</li> <li>Built-in 3.0" (approx. 1,040,000 dots) wide viewing angle color monitor</li> <li>13 Custom Functions in 3 sets</li> <li>Multi-controller and Quick Control Dial</li> <li>Live mode</li> <li>Simultaneous RAW and JPEG image capture</li> <li>SMPT-E Time Code</li> <li>Intelligent Viewfinder</li> <li>Multiple Exposures (4 modes)</li> <li>Dioptric adjustment</li> <li>Depth-of-field preview</li> <li>FE Lock</li> <li>Mirror lock</li> </ul>	<ul style="list-style-type: none"> <li>20.2 Megapixel Full-Frame CMOS sensor</li> <li>Built-in 3.0" (approx. 1,040,000 dots) wide viewing angle color monitor</li> <li>Built-in Wi-Fi<sup>ii</sup></li> <li>Built-in GPS</li> <li>20 custom functions</li> <li>Simultaneous RAW + JPEG image capture</li> <li>All-i or IPB Compression</li> <li>SMPT-E Time Code</li> <li>Multiple Exposures</li> <li>Dioptric adjustment</li> <li>FE Lock</li> <li>Basic+</li> <li>In-camera RAW processing</li> <li>Star Rating System</li> <li>USB 2.0 Hi-Speed compatible</li> <li>Picture Style</li> <li>Dust reduction feature</li> <li>25 Custom Functions with 71 settings</li> <li>Dual Axis Electronic Level</li> <li>Simultaneous RAW and JPEG image capture</li> <li>All-i or IPB Compression</li> <li>SMPT-E Time Code</li> <li>Multiple Exposures</li> <li>Dioptric adjustment</li> <li>FE Lock</li> <li>N3 remote control socket</li> <li>USB 2.0 Hi-Speed compatible</li> </ul>	<ul style="list-style-type: none"> <li>21.1 Megapixel CMOS DSLR camera</li> <li>Built-in 3.0" (approx. 920,000 dots) wide viewing angle color monitor</li> <li>25 Custom Functions in 4 Groups</li> <li>Multi-controller</li> <li>Dual Axis Electronic Level</li> <li>Simultaneous RAW and JPEG image capture</li> <li>Dioptric adjustment</li> <li>Depth-of-field preview</li> <li>Intelligent Viewfinder Display</li> <li>FE Lock</li> <li>Mirror lock</li> <li>N3 remote control socket</li> <li>USB 2.0 Hi-Speed compatible</li> <li>Magnesium-alloy body</li> <li>Picture Style</li> <li>Dust reduction feature</li> <li>25 Custom Functions in 4 Groups</li> <li>Multi-controller</li> <li>Dual Axis Electronic Level</li> <li>Simultaneous RAW + JPEG image capture</li> <li>Dioptric adjustment</li> <li>Depth-of-field preview</li> <li>Intelligent Viewfinder Display</li> <li>FE Lock</li> <li>Mirror lock</li> <li>Retractable built-in E-TTL II flash, with integrated Speedlite transmitter and manual output control</li> </ul>	<ul style="list-style-type: none"> <li>18.0 Megapixel CMOS DSLR camera</li> <li>Built-in 3.0" (approx. 920,000 dots) wide viewing angle color monitor</li> <li>27 Custom Functions in 4 Groups</li> <li>Multi-controller</li> <li>Dual Axis Electronic Level</li> <li>Simultaneous RAW + JPEG image capture</li> <li>Dioptric adjustment</li> <li>Depth-of-field preview</li> <li>Intelligent Viewfinder Display</li> <li>FE Lock</li> <li>Mirror lock</li> <li>Retractable built-in E-TTL II flash, with integrated Speedlite transmitter and manual output control</li> <li>USB 2.0 Hi-Speed compatible</li> <li>Magnesium alloy body</li> <li>Picture Style</li> <li>Live View Function</li> <li>Live View Function &amp; Face Detection Live mode</li> <li>Full HD video</li> </ul>	<ul style="list-style-type: none"> <li>18.0 Megapixel CMOS DSLR camera</li> <li>Built-in Vari-angle 3.0-inch Clear-View LCD monitor (approx. 1,040,000 dots)</li> <li>20 Custom Functions in 4 Groups</li> <li>Multi-controller</li> <li>Dual Axis Electronic Level</li> <li>Simultaneous RAW + JPEG image capture</li> <li>Dioptric adjustment</li> <li>Depth-of-field preview</li> <li>FE Lock</li> <li>Mirror lock</li> <li>Retractable built-in E-TTL II flash</li> <li>Lens Aberration Correction</li> <li>Creative Filters</li> </ul>	<ul style="list-style-type: none"> <li>18.0 Megapixel CMOS Sensor</li> <li>Built-in Vari-angle Touch Screen 3.0-inch Clear View LCD monitor II (approx. 1,040,000 dots)</li> <li>8 Custom Functions with 24 settings</li> <li>Simultaneous RAW + JPEG image capture</li> <li>FE Lock</li> <li>Mirror Lock</li> <li>Feature Guide</li> <li>Basic+</li> <li>Peripheral Illumination Correction</li> <li>Creative Filters</li> <li>Creative Filters</li> <li>HDR Backlight Control mode</li> <li>Handheld Night Scene mode</li> <li>EOS Scene Detection Technology, Scene Intelligent Auto and Picture Style Auto</li> <li>EOS Scene Detection Technology, Scene Intelligent Auto and Picture Style Auto</li> <li>Multiple Aspect Ratios</li> <li>Video Snapshot albums</li> <li>Built-in flash with Speedlite transmitter</li> <li>Full HD Video</li> </ul>	<ul style="list-style-type: none"> <li>12.2 Megapixel CMOS Sensor</li> <li>Built-in 2.7" (approx. 230,000) color monitor</li> <li>10 custom functions with 32 settings</li> <li>Simultaneous RAW + JPEG recording</li> <li>USB 2.0 Hi-Speed compatible</li> <li>Basic+</li> <li>Peripheral Illumination Correction</li> <li>Hybrid Single Blade Shutter</li> <li>HD Video Shooting</li> <li>Slide Show</li> <li>Ratings</li> </ul>	<ul style="list-style-type: none"> <li>18.0 Megapixel CMOS Sensor</li> <li>Built-in 3.0" (approx. 920,000 dots) wide viewing angle color monitor</li> <li>25 Custom Functions in 4 Groups</li> <li>Multi-controller</li> <li>Dual Axis Electronic Level</li> <li>Simultaneous RAW + JPEG image capture</li> <li>Dioptric adjustment</li> <li>Depth-of-field preview</li> <li>Intelligent Viewfinder Display</li> <li>FE Lock</li> <li>Mirror lock</li> <li>Retractable built-in E-TTL II flash, with integrated Speedlite transmitter and manual output control</li> <li>Basic+</li> <li>Movie Servo AF</li> <li>EOS Scene Detection Technology, Scene Intelligent Auto and Picture Style Auto</li> <li>Full HD Video</li> </ul>		
<b>Video Recording Size</b>	1920 x 1080 (Full HD): 30p (29.97) / 25p / 24p (23.976), 1280 x 720 (HD): 60p (59.94) / 50p, 640 x 480 (SD): 30p (29.97) / 25p	1920 x 1080 (Full HD): 30p (29.97) / 25p / 24p (23.976), 1280 x 720 (HD): 60p (59.94) / 50p, 640 x 480 (SD): 30p (29.97) / 25p	1920 x 1080 (Full HD): 30p (29.97) / 25p / 24p (23.976); 1280 x 720 (HD): 60p (59.94) / 50p; 640 x 480 (SD): 30p (29.97) / 25p	1920 x 1080 (Full HD): 30p / 25p / 24p (23.976); 1280 x 720 (HD): 60p (59.94) / 50p; 640 x 480 (SD): 30p (29.97) / 25p	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 (29.97) / 24p (23.976) / 25p, 1280 x 720 (HD): 60p (59.94) / 50p, 640 x 480 (SD): 30p (29.97) / 25p	1920 x 1080 (Full HD): 30p (29.97) / 24p (23.976) / 25p, 1280 x 720 (HD): 60p (59.94) / 50p, 640 x 480 (SD): 30p (29.97) / 25p	1920 x 1080 (Full HD): 30p (29.97) / 24p (23.976) / 25p, 1280 x 720 (HD): 60p (59.94) / 50p, 640 x 480 (SD): 30p (29.97) / 25p	1920 x 1080 (Full HD): 30p (29.97) / 24p (23.976) / 25p, 1280 x 720 (HD): 60p (59.94) / 50p, 640 x 480 (SD): 30p (29.97) / 25p	1280 x 720: 30p (29.97), 25p	1920 x 1080 (Full HD): 30p (29.97) / 25p (23.976); 1280 x 720 (HD): 60p (59.94) / 50p; 640 x 480 (SD): 30p (29.97) / 25p
<b>Number of Focusing Points</b>	61 (Area AF Ellipse); 61 points selectable, 41 cross-type points (lens dependant) 5 diagonal cross-type points, improved AI Servo AF III	61 (Area AF Ellipse); 61 points selectable, 41 cross-type points (lens dependant) 5 diagonal cross-type points, improved AI Servo AF III	11: 1 Center Cross-type point; 11 point selectable (manually-selected AF point position used in horizontal/vertical shooting can be set separately)	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 additional, high-precision dual cross-type sensor with f/2.8 or faster lenses	9; Each AF point is a high precision cross-type, vertical-line sensitive at f/2.8.	9; Center AF point is a high precision cross-type, vertical-line sensitive at f/5.6.	9; Center AF point is cross-type, vertical-line sensitive at f/5.6.	31 (Live View only)	
<b>ISO Range*</b>	(Still) ISO 100–51200, L: 50, H1: 102400, H2: 204800 (Video) ISO 100–25600, H: 51200, H1: 102400, H2: 204800	(Still) ISO 100–51200, L: 50, H1: 102400, H2: 204800 (Video) ISO 100–25600, H: 25600	(Still) ISO 100–25600, L: 50, H1: 51200, H2: 102400 (Video) ISO 100–12800, H: 25600	(Still) ISO 100–6400, L: 50, H1: 12800, H2: 25600 (Video) ISO 100–6400, H1: 12800	(Still) ISO 100–6400, H: 12800 (Video) ISO 100–6400, H: 12800	(Still) ISO 100–6400, H: 12800 (Video) ISO 100–6400, H: 12800	(Still) ISO 100–12800, H: 25600 (Video) ISO 100–6400, H: 12800	(Still) ISO 100–6400, H: 12800 (Video) ISO 100–6400 (AUTO SET)	(Still) ISO 100–6400 (Video) ISO 100–6400	(Still) ISO 100–12800, H: 25600 (Video) ISO 100–6400, H: 12800	
<b>Recording Media</b>	2 ea. UDMA CF/CF card (Type I or II)	1 UDMA CF/CF card (Type I or II) 1 SD/SDHC/SDXC memory card	SD, SDHC, SDXC, UHS-I SD Memory Cards	UDMA CF/CF card (Type I or II)	SD/SDHC/SDXC memory card	SD/SDHC/SDXC memory card	SD/SDHC/SDXC memory card compatible with UHS-I SD memory card	SD/SDHC/SDXC memory card	SD/SDHC/SDXC memory card	SD, SDHC, SDXC, UHS-I SD Memory Cards	
<b>Frames Per Second</b>	Single, 12.0 fps**, 3.0 fps, 14.0 fps Super High Speed Mode	Single, 3.0 fps, 6.0 fps	Single and 4.5 fps	Single, 3.9 fps	Single, 8.0 fps, 3.0 fps	Single, 5.3 fps, 3.0 fps	Single and 5.0 fps	Single and 3.7 fps	Single and 3.0 fps	Single and 4.3 fps#	
<b>Shutter Speeds</b>	30–1/8,000 sec. & Bulb; manually settable in 1/3-, 1/2-, 1-stop increments	30–1/8,000 sec. & Bulb; manually settable in 1/3- and, 1-stop increments	30–1/4000 sec. & Bulb, manually settable in 1/3- or 1/2-stop increments	30–1/8000 sec. & Bulb; manually settable in 1/3-, 1/2-stop increments	30–1/8,000 sec. & Bulb; manually settable in 1/3- or 1/2-stop increments	30 to 1/8000 sec. & Bulb; manually settable in 1/3- or 1/2-stop increments	30 to 1/4,000 sec. & Bulb, manually settable in 1/3- or 1/2-stop increments	30–1/4,000 sec. & Bulb, manually settable in 1/3- or 1/2-stop increments	30–1/4,000 sec. & Bulb, manually settable in 1/3- or 1/2-stop increments	30–1/4000 sec. & Bulb, manually settable in 1/3- or 1/2-stop increments	
<b>Autofocus Sensitivity</b>	EV -2 to 20 (at ISO 100 with f/1.4 lens)	EV -2 to 18 (at ISO 100 with f/1.4 lens)	Center AF Point: EV -3 to 18 (at ISO 100) Other AF Points: EV +0.5 to 18 (at ISO 100)	EV -0.5 to 18 (at ISO 100)	EV -0.5 to 18 (at ISO 100)	EV -0.5 to 18 (at ISO 100)	EV -0.5 to 18 (at ISO 100)	EV -0.5 to 18 (at ISO 100)	EV 0 to 18 (at ISO 100)	EV 1 to 18 (at ISO 100)	
<b>Autofocus Auxiliary Light Built-in</b>	–	–	–	–	Yes (via built-in flash)	Yes (via built-in flash)	Yes (via built-in flash)	Yes (via built-in flash)	–	–	
<b>Shutter</b>	Vertical-travel, focal-plane shutter with soft-touch electromagnetic release, all speeds electronically controlled	Vertical-travel, focal-plane shutter with soft-touch electromagnetic release, all speeds electronically controlled	Vertical-travel, mechanical, focal-plane shutter with all speeds electronically controlled	Vertical-travel, mechanical, focal-plane shutter with soft-touch electromagnetic release, all speeds electronically controlled	Vertical-travel, mechanical, soft-touch electromagnetic release, focal-plane shutter with all speeds electronically controlled	Vertical-travel, mechanical, soft-touch electromagnetic release, focal-plane shutter with all speeds electronically controlled	Vertical-travel, mechanical, focal-plane shutter with all speeds electronically controlled	Vertical-travel, mechanical, focal-plane shutter with all speeds electronically controlled	Vertical-travel, mechanical, focal-plane shutter with all speeds electronically controlled	Vertical-travel, mechanical, focal-plane shutter with all speeds electronically controlled	
<b>Maximum Flash Synchronization Speed</b>	Up to 1/250 sec.; high-speed sync. Available with EX-series Speedlites	Up to 1/200 sec.; high-speed sync. Available with EX-series Speedlites	Up to 1/180 sec.	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	Up to 1/200 sec.; high-speed sync. available with EX-series Speedlites	Up to 1/200 sec.; high-speed sync. available with EX-series Speedlites	Up to 1/200 sec.; high-speed sync. available with EX-series Speedlites	Up to 1/200 sec.	
<b>Metering System</b>	TTL full-aperture metering: • 252-zone Evaluative metering • 65% Partial metering • 2.5% Spot metering (linked to user-selected focusing point) • Center-weighted average metering	TTL full-aperture metering: • 65-zone Evaluative metering • Approx. 11% partial metering • 1.5% Spot metering (Center Point) • Center-weighted average metering	TTL full-aperture metering: • 65-zone Evaluative metering • 8% Partial metering • Approx. 3% spot metering • Center-weighted average metering	TTL full-aperture metering: • 35-zone Evaluative metering • 8% Partial metering • 3.5% Center spot metering • Center-weighted average metering	• Pre-flash metering (E-TTL II)	TTL full-aperture metering: • 63-zone Evaluative metering • 9% Partial metering • 2.3% Center spot metering • Center-weighted average metering	• Pre-flash metering (E-TTL II)	TTL full-aperture metering: • 63-zone Evaluative metering • 9% Partial metering • 2.8% Center spot metering • Center-weighted average metering	TTL full-aperture metering: • 63-zone Evaluative metering • Approx. 10% partial metering • 4% Spot metering • Center-weighted average metering	TTL full-aperture metering: • 63-zone Evaluative metering • Approx. 11% partial metering • 4% Spot metering • Center-weighted average metering	TTL full-aperture metering: • 63-zone Evaluative metering • Approx. 11% partial metering • 4% Spot metering • Center-weighted average metering
<b>Metering Sensitivity</b>	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 0–20 (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 0–20 for all patterns (at ISO 100 with f/1.4 lens)	EV 1–20 (at ISO 100 with f/1.4 lens)	EV 1–20 (at ISO 100 with f/1.4 lens)	EV 0–20 (at ISO 100 with f/1.4 lens)	EV 1–20 (at ISO 100 with f/2 lens)	
<b>Exposure Compensation</b>	+5 stops in 1/3- or 1/2-stop increments	+5 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	+5 stops in 1/3- or 1/2-stop increments	+5 stops in 1/3- or 1/2-stop increments	+5 stops in 1/3- or 1/2-stop increments	+5 stops in 1/3- or 1/2-stop increments	+5 stops in 1/3- or 1/2-stop increments	+3 stops in 1/3- or 1/2-stop increments	
<b>Flash Exposure Compensation</b>	+3 stops in 1/3- or 1/2-stop increments	+3 stops in 1/3- or 1/2-stop increments	+3 stops in 1/3- or 1/2-stop increments	+3 stops in 1/3- or 1/2-stop increments	+3 stops in 1/3- or 1/2-stop increments	+3 stops in 1/3- or 1/2-stop increments	+3 stops in 1/3- or 1/2-stop increments	+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	
<b>AE Lock</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
<b>Exposure Modes</b>	<ul style="list-style-type: none"> <li>Shutter Speed-priority AE</li> <li>Aperture-priority AE</li> <li>Program AE (shiftable)</li> <li>Manual</li> <li>E-TTL II Flash AE</li> <li>Bulb</li> </ul>	<ul style="list-style-type: none"> <li>Shutter Speed-priority AE</li> <li>Aperture-priority AE</li> <li>Program AE (shiftable)</li> <li>Manual</li> <li>Scene Intelligent Auto</li> <li>E-TTL II Flash AE</li> <li>Bulb</li> </ul>	<ul style="list-style-type: none"> <li>Program AE</li> <li>Shutter-priority AE</li> <li>Aperture-priority AE</li> <li>Manual Exposure</li> <li>Scene Intelligent Auto</li> <li>Creative Auto</li> </ul>	<ul style="list-style-type: none"> <li>E-TTL II Flash AE</li> <li>Bulb</li> <li>Program AE (shiftable)</li> <li>Shutter Speed-priority AE</li> <li>Aperture-priority AE</li> <li>Creative Auto</li> <li>Full Auto</li> <li>Manual</li> </ul>	<ul style="list-style-type: none"> <li>E-TTL II Flash AE</li> <li>Bulb</li> <li>Program AE (shiftable)</li> <li>Shutter-priority AE</li> <li>Aperture-priority AE</li> <li>Creative Auto</li> <li>Full Auto</li> <li>Creative Auto</li> </ul>	<ul style="list-style-type: none"> <li>Program AE (shiftable)</li> <li>Shutter-priority AE</li> <li>Shutter Speed-priority AE</li> <li>Aperture-priority AE</li> <li>Manual exposure</li> <li>Full Auto</li> <li>Creative Auto</li> <li>Flash Off</li> <li>Creative Auto</li> <li>Programmed Image Control modes (5)</li> <li>E-TTL II Autoflash Program AE</li> </ul>	<ul style="list-style-type: none"> <li>Program AE</li> <li>Shutter-priority AE</li> <li>Aperture-priority AE</li> <li>Manual exposure</li> <li>Automatic depth-of-field AE</li> <li>Scene Intelligent Auto</li> <li>Flash Off</li> <li>Creative Auto</li> <li>Programmed AE with ambient selection</li> <li>E-TTL II autofocus program AE</li> </ul>	<ul style="list-style-type: none"> <li>Program AE</li> <li>Shutter-priority AE</li> <li>Aperture-priority AE</li> <li>Manual exposure</li> <li>Automatic depth-of-field AE</li> <li>Full Auto</li> <li>Flash Off</li> <li>Creative Auto</li> <li>Programmed AE with ambient selection</li> <li>E-TTL II autofocus program AE</li> </ul>	<ul style="list-style-type: none"> <li>Program AE</li> <li>Shutter-priority AE</li> <li>Aperture-priority AE</li> <li>Manual exposure</li> <li>Creative Auto</li> </ul>		
<b>Viewfinder</b>	Fixed eye-level pentaprism	Fixed eye-level pentaprism	Fixed eye-level pentaprism	Fixed eye-level pentaprism	Fixed eye-level pentaprism	Fixed eye-level pentaprism	Fixed eye-level pentaprism	Fixed eye-level pentaprism	Fixed eye-level pentaprism	–	
<b>Viewfinder Coverage</b>	Approx. 100% horizontal and vertical at 0.76x	Approx. 100% horizontal and vertical at 0.71x	Approx. 97% horizontal and vertical at 0.71x	98% horizontal/vertical at 0.71x	Approx. 100% horizontal/vertical at 1x	Approx. 96% vertical/horizontal	95% horizontal/vertical at 0.85x	95% horizontal/vertical at 0.85x	95% horizontal/vertical at 0.8x	–	
<b>Viewfinder Information</b>	Inside the picture area: Sixty-one focusing points, 2.5% Spot metering circle. Displayed at the bottom and side of the viewing area: Numeric and textual information with 7-segment LCD	Inside the picture area: Sixty-one focusing points, 1.5% Spot metering circle. Displayed at the bottom of the viewing area: Numeric and textual information with 7-segment LCD	Inside the picture area: Eleven focusing points, 3% Spot metering circle. Inside the bottom of the viewing area: Numeric and textual information with 7-segment LCD	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	Inside the picture area: Nineteen focusing points, 2.3% Spot metering circle. Displayed at the bottom of the viewing area: Numeric and textual information with 7-segment LCD	Inside the picture area: Nine focusing points, 2.8% Spot metering circle. Displayed at the bottom of the viewing area: Numeric and textual information with 7-segment LCD	Inside the picture area: Nine focusing points, 4% Spot metering circle. Displayed at the bottom of the viewing area: Numeric and textual information with 7-segment LCD	Inside the picture area: Nine focusing points, 4% Spot metering circle. Displayed at the bottom of the viewing area: Numeric and textual information with 7-segment LCD	Inside the picture area: Nine focusing points, 4% Spot metering circle. Displayed at the bottom of the viewing area: Numeric and textual information with 7-segment LCD	Inside the picture area: Nine focusing points, 4% Spot metering circle. Displayed at the bottom of the viewing area: Numeric and textual information with 7-segment LCD	–
<b>Shutter speed</b>	• Shutter speed	• Shutter speed	• Shutter speed	• Shutter speed	• Shutter speed	• Shutter speed	• Shutter speed	• Shutter speed	• Shutter speed	• Shutter speed	
<b>Aperture value</b>	• Aperture value	• Aperture value	• Aperture value	• Aperture value	• Aperture value	• Aperture value	• Aperture Value	• Aperture Value	• Aperture Value	• Aperture Value	
<b>AE Lock</b>	• AE Lock	• AE Lock	• AE Lock	• AE Lock	• AE Lock	• AE Lock	• AE Lock	• AE Lock	• AE Lock	• AE Lock	
<b>FE Lock</b>	• Focus confirmation	• Focus confirmation	• Focus confirmation	• Focus confirmation	• Focus confirmation	• Focus confirmation	• Focus confirmation	• Focus confirmation	• Focus confirmation	• Focus confirmation	
<b>Shots remaining</b>	• Shots remaining	• Shots remaining	• Shots remaining	• Shots remaining	• Shots remaining	• Shots remaining	• Shots remaining	• Shots remaining	• Shots remaining	• Shots remaining	
<b>Max. burst</b>	• Max. burst	• Max. burst	• Max. burst	• Max. burst	• Max. burst	• Max. burst	• Max. Burst	• Max. Burst	• Max. Burst	• Max. Burst	
<b>ISO speed</b>	• ISO speed	• ISO speed	• ISO speed	• ISO speed	• ISO speed	• ISO speed	• ISO Speed	• ISO Speed	• ISO Speed	• ISO Speed	
<b>JPEG indicator</b>	• JPEG indicator	• JPEG indicator	• JPEG indicator	• JPEG indicator	• JPEG indicator	• JPEG indicator	• JPEG indicator	• JPEG indicator	• JPEG indicator	• JPEG indicator	
<b>Flash exposure compensation</b>	• Flash exposure compensation	• Flash exposure compensation	• Flash exposure compensation	• Flash exposure compensation	• Flash exposure compensation	• Flash exposure compensation	• Flash Exposure Compensation	• Flash Exposure Compensation	• Flash Exposure Compensation	• Flash Exposure Compensation	
<b>Metering Pattern</b>	• Metering Pattern	• Metering Pattern	• Metering Pattern	• Metering Pattern	• Metering Pattern	• Metering Pattern	• Metering Pattern	• Metering Pattern	• Metering Pattern	• Metering Pattern	
<b>Exposure level / Flash exposure level / Manual Exposure level / Exposure compensation / Flash compensation</b>	• Exposure level / Flash exposure level / Manual Exposure level / Exposure compensation / Flash compensation	• Exposure level / Flash exposure level / Manual Exposure level / Exposure compensation / Flash compensation	• Exposure level / Flash exposure level / Manual Exposure level / Exposure compensation / Flash compensation	• Exposure level / Flash exposure level / Manual Exposure level / Exposure compensation / Flash compensation	• Exposure level / Flash exposure level / Manual Exposure level / Exposure compensation / Flash compensation	• Exposure level / Flash exposure level / Manual Exposure level / Exposure compensation / Flash compensation	• Exposure level / Flash exposure level / Manual Exposure level / Exposure compensation / Flash compensation	• Exposure level / Flash exposure level / Manual Exposure level / Exposure compensation / Flash compensation	• Exposure level / Flash exposure level / Manual Exposure level / Exposure compensation / Flash compensation	• Exposure level / Flash exposure level / Manual Exposure level / Exposure compensation / Flash compensation	
<b>White Balance +/-</b>	• White Balance +/-	• White Balance +/-	• White Balance +/-	• White Balance +/-	• White Balance +/-	• White Balance +/-	• White Balance Correction	• White Balance Correction	• White Balance Correction	• White Balance Correction	
<b>ISO Speed</b>	• ISO Speed	• ISO Speed	• ISO Speed	• ISO Speed	• ISO Speed	• ISO Speed	• ISO Speed	• ISO Speed	• ISO Speed	• ISO Speed	
<b>White Balance +/-</b>	• White Balance +/-	• White Balance +/-	• White Balance +/-	• White Balance +/-	• White Balance +/-	• White Balance +/-	• White Balance Correction	• White Balance Correction	• White Balance Correction	• White Balance Correction	
<b>Shooting Mode</b>	• Shooting Mode										

## Movie Recording Size and Time

Movie Recording Size	Frame Rate		Total Recording Time		File Size
<b>EOS-1D X</b>			<b>8GB Card</b>	<b>16GB Card</b>	
1920x1080	30fps	All-I	11 min.	22 min.	685 MB/min.
		IPB	32 min.	64 min.	235 MB/min.
		All-I	11 min.	22 min.	685 MB/min.
	25fps	IPB	32 min.	64 min.	235 MB/min.
		All-I	11 min.	22 min.	685 MB/min.
		IPB	32 min.	64 min.	235 MB/min.
1280x720	60fps	All-I	12 min.	25 min.	610 MB/min.
		IPB	37 min.	74 min.	205 MB/min.
		All-I	12 min.	25 min.	610 MB/min.
	50fps	IPB	37 min.	74 min.	205 MB/min.
		All-I	12 min.	25 min.	610 MB/min.
		IPB	37 min.	74 min.	205 MB/min.
640x480	30fps	IPB	97 min.	194 min.	78 MB/min.
		IPB	97 min.	194 min.	78 MB/min.
	25fps	IPB	97 min.	194 min.	78 MB/min.
		IPB	97 min.	194 min.	78 MB/min.

<b>EOS 5D Mark III</b>			<b>8GB Card</b>	<b>16GB Card</b>	
1920x1080	30fps	All-I	11 min.	22 min.	685 MB/min
		IPB	32 min.	64 min.	235 MB/min
		All-I	11 min.	22 min.	685 MB/min
	25fps	IPB	32 min.	64 min.	235 MB/min
		All-I	11 min.	22 min.	685 MB/min
		IPB	32 min.	64 min.	235 MB/min
1280x720	60fps	All-I	12 min.	25 min.	610 MB/min
		IPB	37 min.	74 min.	205 MB/min
		All-I	12 min.	25 min.	610 MB/min
	50fps	IPB	37 min.	74 min.	205 MB/min
		All-I	12 min.	25 min.	610 MB/min
		IPB	37 min.	74 min.	205 MB/min
640x480	30fps	IPB	97 min.	194 min.	78 MB/min
		IPB	97 min.	194 min.	78 MB/min
	25fps	IPB	97 min.	194 min.	78 MB/min
		IPB	97 min.	194 min.	78 MB/min

<b>EOS 6D</b>			<b>8GB Card</b>	<b>16GB Card</b>	
1920 x 1080	30fps	All-I	11 min.	22 min.	685 MB/min.
		IPB	32 min.	64 min.	235 MB/min.
		All-I	11 min.	22 min.	685 MB/min.
	25fps	IPB	32 min.	64 min.	235 MB/min.
		All-I	11 min.	22 min.	685 MB/min.
		IPB	32 min.	64 min.	235 MB/min.
1280 x 720	60fps	All-I	12 min.	25 min.	610 MB/min.
		IPB	37 min.	74 min.	205 MB/min.
		All-I	12 min.	25 min.	610 MB/min.
	50fps	IPB	37 min.	74 min.	205 MB/min.
		All-I	12 min.	25 min.	610 MB/min.
		IPB	37 min.	74 min.	205 MB/min.
640 x 480	30fps	IPB	97 min.	194 min.	78 MB/min.
		IPB	97 min.	194 min.	78 MB/min.
	25fps	IPB	97 min.	194 min.	78 MB/min.
		IPB	97 min.	194 min.	78 MB/min.

<b>EOS 5D Mark II</b>			<b>4GB Card</b>	<b>16GB Card</b>	
1920x1080 (16:9) Full HD	30fps		12 min.	49 min.	330 MB/min.
640x480 (4:3) SD	30fps		24 min.	1 hr. 39 min.	165 MB/min

<b>EOS 7D</b>			<b>4GB Card</b>	<b>16GB Card</b>	
1920x1080 (16:9) Full HD	30fps	All-I	11 min.	22 min.	685 MB/min.
		IPB	32 min.	64 min.	235 MB/min.
		All-I	11 min.	22 min.	685 MB/min.
	25fps	IPB	32 min.	64 min.	235 MB/min.
		All-I	11 min.	22 min.	685 MB/min.
		IPB	32 min.	64 min.	235 MB/min.
1280x720 (16:9) HD	60fps	All-I	12 min.	25 min.	610 MB/min.
		IPB	37 min.	74 min.	205 MB/min.
	50fps	All-I	12 min.	25 min.	610 MB/min.
		IPB	37 min.	74 min.	205 MB/min.
640x480 (4:3) SD	60fps	All-I	12 min.	25 min.	610 MB/min.
		IPB	37 min.	74 min.	205 MB/min.
	50fps	All-I	12 min.	25 min.	610 MB/min.
		IPB	37 min.	74 min.	205 MB/min.

<b>EOS 60D</b>			<b>4GB Card</b>	<b>16GB Card</b>	
1920x1080 (16:9) Full HD	30fps	All-I	11 min.	22 min.	685 MB/min.
		IPB	32 min.	64 min.	235 MB/min.
		All-I	11 min.	22 min.	685 MB/min.
	25fps	IPB	32 min.	64 min.	235 MB/min.
		All-I	11 min.	22 min.	685 MB/min.
		IPB	32 min.	64 min.	235 MB/min.
1280x720 (16:9) HD	60fps	All-I	12 min.	25 min.	610 MB/min.
		IPB	37 min.	74 min.	205 MB/min.
	50fps	All-I	12 min.	25 min.	610 MB/min.
		IPB	37 min.	74 min.	205 MB/min.
640x480 (4:3) SD (Movie Crop)	60fps	All-I	12 min.	25 min.	610 MB/min.
		IPB	37 min.	74 min.	205 MB/min.
	50fps	All-I	12 min.	25 min.	610 MB/min.
		IPB	37 min.	74 min.	205 MB/min.

<b>EOS Rebel T4i</b>			<b>8GB Card</b>	<b>16GB Card</b>	
1920x1080	30fps	All-I	11 min.	22 min.	685 MB/min.
		IPB	32 min.	64 min.	235 MB/min.
		All-I	11 min.	22 min.	685 MB/min.
	25fps	IPB	32 min.	64 min.	235 MB/min.
		All-I	11 min.	22 min.	685 MB/min.
		IPB	32 min.	64 min.	235 MB/min.
1280x720	60fps	All-I	12 min.	25 min.	610 MB/min.
		IPB	37 min.	74 min.	205 MB/min.
		All-I	12 min.	25 min.	610 MB/min.
	50fps	IPB	37 min.	74 min.	205 MB/min.
		All-I	12 min.	25 min.	610 MB/min.
		IPB	37 min.	74 min.	205 MB/min.
640x480	30fps	IPB	97 min.	194 min.	78 MB/min.
		IPB	97 min.	194 min.	78 MB/min.
	25fps	IPB	97 min.	194 min.	78 MB/min.
		IPB	97 min.	194 min.	78 MB/min.

<b>EOS Rebel T3i</b>			<b>8GB Card</b>	<b>16GB Card</b>	
1920x1080	30fps	All-I	11 min.	22 min.	685 MB/min.
		IPB	32 min.	64 min.	235 MB/min.
		All-I	11 min.	22 min.	685 MB/min.
	25fps	IPB	32 min.	64 min.	235 MB/min.
		All-I	11 min.	22 min.	685 MB/min.
		IPB	32 min.	64 min.	235 MB/min.
1280x720	60fps	All-I	12 min.	25 min.	610 MB/min.
		IPB	37 min.	74 min.	205 MB/min.
		All-I	12 min.	25 min.	610 MB/min.
	50fps	IPB	37 min.	74 min.	205 MB/min.
		All-I	12 min.	25 min.	610 MB/min.
		IPB	37 min.	74 min.	205 MB/min.
640x480	30fps	IPB	97 min.	194 min.	78 MB/min.
		IPB	97 min.	194 min.	78 MB/min.
	25fps	IPB	97 min.	194 min.	78 MB/min.
		IPB	97 min.	194 min.	78 MB/min.

<b>EOS Rebel T3</b>			<b>4GB Card</b>	<b>16GB Card</b>	
1280x720	30fps		17 min.	1 hr. 8 min.	222 MB/min.
	25fps				

<b>EOS M</b>			<b>4GB Card</b>	<b>16GB Card</b>	
1920 x 1080	30 fps		22 min.	44 min.	330 MB/min.
	25 fps				
	24 fps				
1280 x 720	60 fps		22 min.	44 min.	330 MB/min.
	50 fps				
	30 fps		1 hr. 32 min.	3 hrs. 4 min.	82.5 MB/min.
640 x 480	30 fps				
	25 fps				

## Image Format and Capacity Chart

Image Format	Recording Resolution	Recording Method	Compression Rate	Image File Size (MB)	Recording Capacity (shot)
<b>EOS-1D X*</b>					
JPEG	Large	JPEG	Low Compression	6.0	1200
	Medium 1			4.8	1470
	Medium 2			3.3	2170
	Small			2.1	3290
	Small/Normal			2.1	3290
RAW	.CR2	5184 x 3456 (Approx. 17.90 megapixels)	Lossless Compression	—	23.2 280
RAW + JPEG	Large	RAW + Separate JPEG File	—	23.2+6.0	230
	Medium 1			23.2+4.8	240
	Medium 2			23.2+3.3	250
	Small			23.2+2.1	260
mRAW	.CR2	3888 x 2592 (Approx. 10.10 megapixels)	Lossless Compression	—	18.3 350
mRAW + JPEG	Large	mRAW + Separate JPEG File	—	18.3+6.0	270
	Medium 1			18.3+4.8	280
	Medium 2			18.3+3.3	300
	Small			18.3+2.1	320
	Small/Normal			18.3+2.1	320
S RAW	.CR2	2592 x 1728 (Approx. 4.50 megapixels)	Lossless Compression	—	13.0 490
sRAW + JPEG	Large	sRAW + Separate JPEG File	—	13.0+6.0	340
	Medium 1			13.0+4.8	360
	Medium 2			13.0+3.3	400
	Small			13.0+2.1	420
	Small/Normal			13.0+2.1	420

<b>EOS 5D Mark III</b>					
JPEG	Large/Fine	JPEG	Low Compression	7.0	1010
	Large/Normal			3.7	1930
	Medium/Fine			3.8	1860
	Medium/Normal			2.0	3430
	Small 1/Fine			2.5	2810
	Small 1/Normal			1.3	5240
	Small 2			1.4	5030
	Small 3			0.3	19520
	Small/Normal			0.3	19520
	RAW			.CR2	5760 x 3840 (Approx. 22.10 megapixels)
RAW+JPEG	Large/Fine	RAW + Separate JPEG File	—	27.1 + 7.0	210
mRAW	.CR2			3960 x 2640 (Approx. 10.5 megapixels)	Lossless Compression
mRAW+JPEG	Large/Fine	mRAW + Separate JPEG File	—	19.1 + 7.0	270
sRAW	.CR2			2880 x 1920 (Approx. 5.5 megapixels)	Lossless Compression
sRAW+JPEG	Large/Fine	sRAW + Separate JPEG File	—	15.1 + 7.0	320

<b>EOS 6D</b>					
JPEG	Large/Fine	JPEG	Low Compression	6.0	1250
	Large/Normal			3.1	2380
	Medium/Fine			3.2	2300
	Medium/Normal			1.7	4240
	Small/Fine			2.1	3450
	Small/Normal			1.1	6370
	Small 2			1.2	6130
	Small 3			0.3	23070
	Small/Normal			0.3	23070
	RAW			.CR2	5472 x 3648 (Approx. 20.0 megapixels)
RAW+JPEG	Large/Fine	RAW + Separate JPEG File	—	23.5+6.0	240
mRAW	.CR2			4104 x 2736 (Approx. 11.0 megapixels)	Lossless Compression
mRAW+JPEG	Large/Fine	mRAW + Separate JPEG File	—	18.5+6.0	290
sRAW	.CR2			2736 x 1824 (Approx. 5.0 megapixels)	Lossless Compression
sRAW+JPEG	Large/Fine	sRAW + Separate JPEG File	—	13.0+6.0	380

Image Format	Recording Resolution	Recording Method	Compression Rate	Image File Size (MB)	Recording Capacity (shot)
<b>EOS 5D Mark II**</b>					
JPEG	Large/Fine	JPEG	Low Compression	6.1	310
	Large/Normal			3.0	610
	Medium/Fine			3.6	510
	Medium/Normal			1.9	990
	Small 1/Fine			2.1	910
	Small 1/Normal			1.0	1680
	Small 2			1.0	1680
	Small 3			0.3	6180
	Small/Normal			0.3	6180
	RAW			.CR2	5616 x 3744 (Approx. 21.00 megapixels)
RAW + JPEG	Large/Fine	RAW + Separate JPEG File	—	25.8 + 6.1	57
	Large/Normal			25.8 + 3.0	64
	Medium/Fine			25.8 + 3.6	62
	Medium/Normal			25.8 + 1.9	67
	Small 1/Fine			25.8 + 2.1	66
	Small 1/Normal			25.8 + 1.0	69
	Small 2			25.8 + 1.0	69
	Small 3			25.8 + 1.0	69
	Small/Normal			25.8 + 1.0	69
	sRAW1			.CR2	3861 x 2574 (Approx. 10.00 megapixels)
sRAW1 + JPEG	Large/Fine	sRAW1 + Separate JPEG File	—	14.8 + 6.1	89
	Large/Normal			14.8 + 3.0	100
	Medium/Fine			14.8 + 3.6	100
	Medium/Normal			14.8 + 1.9	110
	Small 1/Fine			14.8 + 2.1	110
	Small 1/Normal			14.8 + 1.0	110
	Small 2			14.8 + 1.0	110
	Small 3			14.8 + 1.0	110
	Small/Normal			14.8 + 1.0	110
	sRAW2			.CR2	2784 x 1856 (Approx. 5.20 megapixels)
sRAW2 + JPEG	Large/Fine	sRAW2 + Separate JPEG File	—	10.8 + 6.1	110
	Large/Normal			10.8 + 3.0	130
	Medium/Fine			10.8 + 3.6	130
	Medium/Normal			10.8 + 1.9	140
	Small 1/Fine			10.8 + 2.1	140
	Small 1/Normal			10.8 + 1.0	150

EF 80  
million

EF LENSES



©Art Morris

# EF LENS TECHNOLOGY

Great images start with great optics. An SLR is often defined by the quality, breadth and scope of its lens system. As such, Canon's lenses alone are reason enough to choose the EOS system. Combining some of the world's most advanced optical, microelectronic, and precision manufacturing technologies, EF lenses are perfected in Canon's laboratories, proven in the field and beloved by generations of photographers. With over 80 million lenses produced to date, whatever the project, whatever the budget, Canon optics perform brilliantly every time.

## Optical Image Stabilizer

**OIS** Canon Optical Image Stabilizer technology makes handheld photography more practical at slow shutter speeds, accommodating more low-light shooting situations than ever before. Camera shake typically occurs at shutter speeds less than 1/[focal length], resulting in image blur. Canon Optical Image Stabilizer technology uses miniature sensors and a high-speed microcomputer built into the lens. The sensors analyze vibrations and apply correction via a special stabilizing lens group that shifts the image parallel to the focal plane. Motion blur is

canceled, resulting in a sharper image. With Optical Image Stabilization, it's like gaining up to four stops. Canon Optical Image Stabilizer technology is built into many EF or EF-S lenses and outperforms in-camera stabilization technologies found in other cameras by allowing for more movement of the stabilizing lens group. Especially with telephoto lenses, as the lens focal length increases, the effect of shake and the degree of correction needed to cancel it increase as well. With the Optical Image Stabilizer in the lens, Canon can equip each IS lens with a stabilization unit optimized for the focal lengths and optical characteristics unique to that lens. 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, the result of Optical Image Stabilization can be seen right in the viewfinder—impossible with some other stabilizer systems.



Image Stabilizer OFF

Image Stabilizer ON



## Image Stabilization: It Belongs In the Lens

Because every lens is different, different lenses have different Optical Image Stabilizer needs.

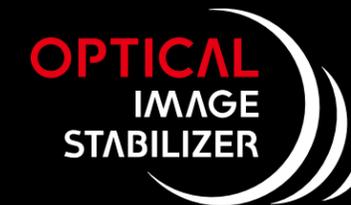
- Reduces motion blur by counteracting camera shake during handheld photography
- With Optical Image Stabilizer in the lens, Canon can equip each Optical Image Stabilizer lens with the stabilizer it needs
- Found on some telephoto lenses, Optical Image Stabilizer Mode 2 is especially effective when doing panned shots
- With Canon Optical Image Stabilizer, the effects of the stabilization can be seen in the viewfinder—the image is steadier, making composition more accurate

**How the Image Stabilizer Works** — The Optical Image Stabilizer shifts a lens group in parallel to the focal plane. When the lens jerks due to camera shake, the light rays from the subject are bent relative to the optical axis, resulting in a blurred image. Camera shake is detected by two gyro sensors (one each for the yaw and pitch). The gyro sensors detect the angle and speed of the camera shake caused by handheld shooting. By moving select lens elements according to how the entire lens is being shaken, the image passing through the lens can be steady and sharp when it hits the imaging sensor. The figure on the extreme right shows what happens when the lens is jerked downward. The center of the image moves downward on the focal plane. When the Optical Image Stabilizer lens group shifts downward, the light rays are refracted so that the image center returns to the

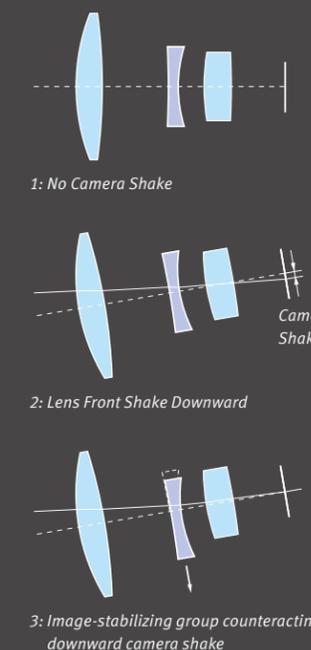
center of the focal plane. Since image shake occurs in both the horizontal and vertical directions, the Optical Image Stabilizer lens group can shift vertically and horizontally on a plane perpendicular to the optical axis to counteract the image shake.



Optical Image Stabilizer Units



### Optical Image Stabilizer Parallel Movement Principle



## Interchangeable EF / EF-S / EF-M Lenses – Creative opportunities are at your fingertips.



**Close-up** — For close-up shots, even the tiniest of motions is magnified and spoils a great shot!



**Low-light** — In low light situations, when you would normally expect to have to use flash or tripod, Canon's Optical Image Stabilizer lenses give you the freedom of up to 4 stops of light.



**Telephoto** — Canon designs each Optical Image Stabilizer system to complement the lens' focal length. So even with telephoto lenses you'll capture the shot!





Taken with EF 100–400mm f/4.5–5.6L IS USM

**Optical Image Stabilizer Mode 2 and Mode 3**

The standard settings of the Optical Image Stabilizer are set so that it is most effective when photographing stationary subjects. However when panning with a moving subject is attempted (tracking of the subject horizontally or vertically), the shake-correction of the OIS may inadvertently over-compensate and interfere with framing. To help resolve this, Canon developed Optical Image Stabilizer Mode 2. In this mode, if you move the lens to follow a subject for a pre-determined time, the Optical Image Stabilizer does not correct for the intentional panning while continuing to correct any camera shake that's perpendicular to the panning motion. The result is a virtually smooth viewfinder image as you follow the moving subject. Optical Image Stabilizer Mode 3 activates IS only when the shutter button is fully pressed, allowing for easy panning of fast-moving subjects.

**Hybrid Image Stabilizer**

During normal shooting situations, sudden camera movement is rotational and 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 is optimized to counteract rotational or linear camera shake and works well for most camera shooting situations. To help compensate for linear camera shake, a new acceleration sensor determines the amount of shift-based camera movement. The new Canon Hybrid Image Stabilizer technology employs a highly sophisticated algorithm that combines the feedback of both the acceleration sensor and angular velocity sensor (found in Hybrid OIS technology) and moves the image stabilizer lens elements, effectively compensating for both rotational and linear camera shake.



Linear Camera Shake

Hybrid IS dramatically enhances the effects of Optical Image Stabilizer especially during macro shooting, which may be difficult for conventional image stabilization technologies.

**Dynamic Image Stabilizer**

During video shooting, Canon's Dynamic IS stabilization offers a greater image stabilization correction range, creating an Image Stabilizer effect equivalent to a shutter speed approximately 4 settings faster, effective for shooting handheld, while walking, and in similar types of shooting situations.



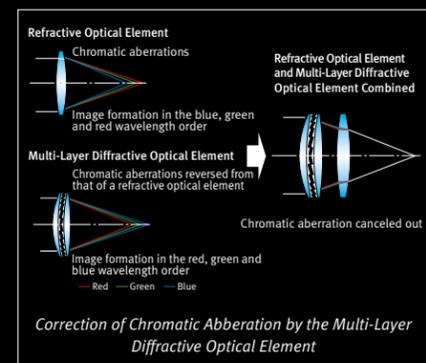
**STM**

A challenge of shooting DSLR video has been achieving continuous autofocus. In response, certain new Canon EF, EF-S and EF-M lenses now offer a stepping motor (STM) drive, designed to deliver smooth and quiet continuous AF during video shooting when paired with the Canon EOS Rebel T4i and EOS M's Movie Servo AF feature. Canon's decades of proven optical expertise allows Canon to incorporate the right type of stepping motor for each lens. The EF 40mm f/2.8 STM utilizes a gear-type that allows the lens to achieve an ultra-compact and light-weight design; whereas the EF-S 18–135mm f/3.5–5.6 IS STM uses a lead-screw type, which prioritizes AF performance, offering the smoothest and quietest operation.



**Diffractive Optics**

Canon's use of diffractive optics (DO) results in high-performance lenses that are much smaller and lighter than traditional designs. Canon's unique multilayer diffractive elements are constructed by bonding diffractive coatings to the surfaces of two or more lens elements. These elements are then combined to form a single multilayer DO element. Conventional glass lens elements disperse incoming light, causing chromatic aberration. The DO element's dispersion characteristics are designed to cancel chromatic aberrations at various wavelengths when combined with conventional glass optics. This technology results in smaller lenses with no compromise in image quality. Canon has also developed a new



triple-layer type DO lens that uses an advanced diffractive grating to deliver excellent performance, with superb control of color fringing. This configuration is ideal for zoom lens optics and provides significant reductions in size. A good example is the EF 70–300mm f/4.5–5.6 DO IS USM lens, which is 28 percent shorter than the EF 70–300mm f/4–5.6 IS USM lens.

**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 employ the minute 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's USM technology to a wide assortment of affordable EF lenses.



Ring-type USM



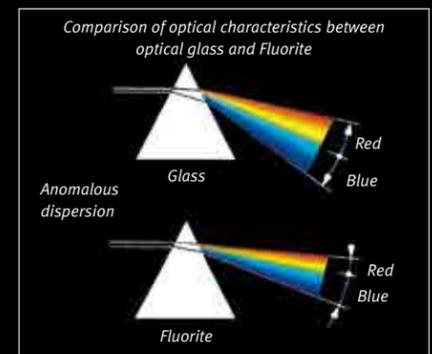
Micro USM

**L-Series Lenses**

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

**Fluorite / UD Elements**

Reducing color fringing, or chromatic aberration, has been one of the great challenges in the design of telephoto lenses. L-series telephoto lenses — like the EF 70–200mm f/2.8 IS II USM

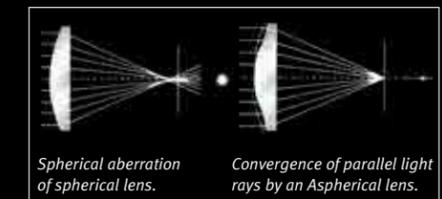


and EF 300mm f/4L IS USM — employ Canon's Ultra-low Dispersion glass to minimize this effect, providing much improved contrast and sharpness. Even more effective at suppressing chromatic aberration are Fluorite elements, used

in high-end super-telephoto L-series lenses. Composed of crystallized calcium fluoride (CaF<sub>2</sub>), a single Fluorite element, although costly, has roughly the corrective power of two UD-glass elements, giving these L-series lenses their spectacular performance and relatively compact design.

**Aspherical Elements**

Wide-angle lenses and fast normal-focal-length lenses often suffer from spherical aberration. When the light rays coming through the center of the lens do not converge at the same point as light rays coming through the lens edge, the image appears blurred because there is no sharp point of focus. Canon's Aspherical elements use a varying curved surface to ensure that the entire image plane appears focused. Aspherical optics



also help to correct curvilinear distortion as one might find in ultra wide-angle lenses. Canon designs aspherical elements with extremely precise variable curvature of one or both sides, making possible lighter, more compact lenses.

**Subwavelength and Fluorine Anti-smear Coatings**

The Subwavelength Coating (SWC) is a proprietary lens coating that helps control ghost and flare to a far greater degree than with earlier coating technologies. Utilizing SWC technology on large-curvature lens elements that are mainly found in wide-angle lenses, will significantly minimize the occurrence of ghosting and flare caused by reflected light in environments that have posed problems. SWC is used on the Canon wide-angle lens, EF 24mm f/1.4L II USM. The Fluorine anti-smear coating keeps soiling, smears and fingerprints to a minimum for easy cleaning.



**Focus Preset**

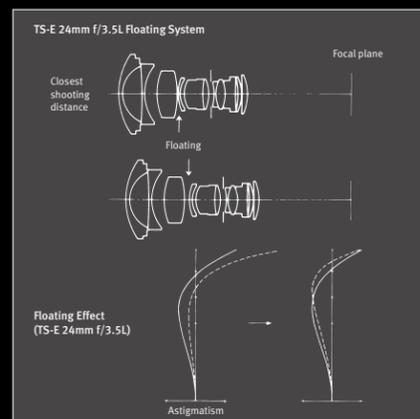
Focus Preset enables you to program a focusing distance in the camera's memory. Normal picture taking and focusing are unaffected by preset distances. For example, at a soccer game, you Focus Preset the goal area. Shoot normally elsewhere on the field, but once the action moves toward the goal, the user can instantly return to the preset distance by turning a ring on the lens.



## Floating System

Float

Typical lenses correct for optical aberrations only at commonly used focusing distances. Not surprisingly, at other focusing distances, especially close range, aberrations can compromise image quality. Rather than using fixed spacings,



Canon's floating system dynamically varies the gap between key lens elements based on focusing distance. Most aberrations are effectively suppressed throughout the focusing range, assuring high image quality in all shooting situations.

## Circular Aperture

CA

Canon lenses featuring circular aperture diaphragms employ curved blades to create a smoothly rounded opening as the lens is stopped down. As a result, most out-of-focus background highlights are rendered as natural-looking rounded shapes rather than as distracting polygons. These lenses deliver smooth, consistent stop-down action (even at 14.0 fps), near-silent operation and excellent optical characteristics.



Reverse tilt and shift greatly reduces the range on which focusing is possible.



The lens's tilt mechanism is used to achieve a pan focus effect that allows focusing all the way back.

## Inner and Rear Focusing

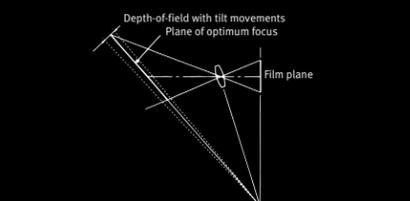
I/R

An inner focusing lens has the focusing lens group(s) in front of the diaphragm, while a rear focusing lens has the focusing lens group(s) behind the diaphragm. Both designs allow for compact optical systems that produce faster AF. And because the front of the lens does not rotate to focus, filter orientation remains constant.

## AF Stop Feature

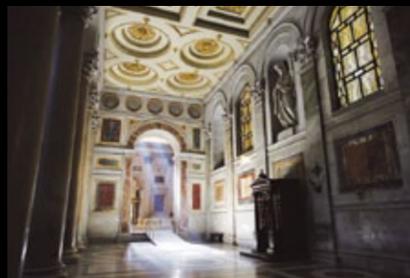
AFSF

Pressing the AF Stop button (featured on several EF IS telephoto lenses) momentarily locks the AF to help prevent the focus from shifting to a passing obstruction. After the obstruction has cleared, the focus will still be on the subject, and you can quickly resume shooting. AF Stop buttons are positioned at four locations around the lens grip for easy access.



Using Tilt Movements to Focus an Oblique Subject Plane

**Tilt Movements** – Using a normal lens, shallow or deep focus is controlled by the size of the aperture used to adjust depth-of-field. Canon TS-E lenses can help achieve this by the tilting of the lens barrel in relationship to the focal and subject planes. This allows for the appearance of extremely deep focus even at wide open apertures, and shallow focus at smaller apertures.



EF 24mm f/1.4L II USM • f/2.8 • 1/30 sec.

## Full-Time Manual Focusing

FT-M

Canon EOS cameras with EF lenses deliver impeccable AF precision. Manual focusing capability, nevertheless, can enhance flexibility. Canon EF lenses with full-time manual focusing enable the photographer to manually tweak focus without switching out of AF mode. Since AF action does not cause the focusing ring to turn, it can be made wider for improved grip and comfort.



EF 8–15mm f/4 Fisheye USM • f/4 • 1024 sec.

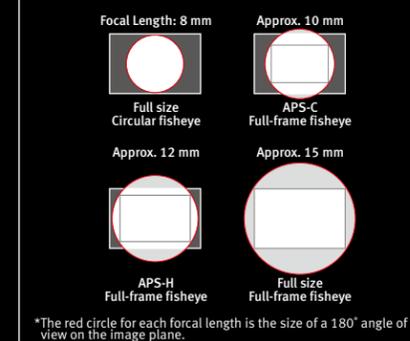


EF 8–15mm f/4 Fisheye USM • f/5.6 • 1/200 sec.

## Specialty Lenses

**Fisheye** – With its unique focal length range, the EF 8–15mm f/4L Fisheye USM is the world's widest fisheye zoom lens. It delivers 180° diagonal angle of view images for all EOS SLR cameras with imaging formats ranging from full-frame to APS-C, and provides 180° circular

The diagram below shows the relationship between each image size and a 180° angle of view for each focal length.



fisheye images for full-frame EOS models. This new Canon lens has a wide zoom range feature that provides a truly elevated level of creativity and performance for users shooting artistic compositions or panoramic landscapes, as well as astronomy and sports.

**EF-S lenses** – Designed for the Canon EOS 7D, EOS 60D and all EOS Rebel models with APS-C sized sensors with a 1.6x crop factor, Canon's EF-S lenses take advantage of the camera sensor's smaller size to help deliver optimized performance in compact, lightweight designs.

**EF-M lenses** – Even more compact, and designed to complement the new EF-M lens mount found on the EOS M Digital Camera, EF-M lenses bring superb EOS optics and performance to an even smaller package.

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

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

## EF Mount

The Canon EF and EF-M mount are much more than simply a way to attach a lens to a camera body. As the communication conduit between camera and lens, this fully electronic mount enables high-speed autofocus, precise aperture control and preview, makes automatic compensation with lens extenders possible and can communicate data such as focal length, lens model, even serial number for in camera processing and recording. Ready for the future, the EF mount offers both forward and backward compatibility

with new lens technologies such as USM and Hybrid IS—and new optical designs, such as EF-S lenses and Cinema EOS lenses as they are developed by Canon. Similarly, the EF-M mount, found on the new EOS M Digital Camera, offers all the same communication points as the EF mount, and is compatible with all EF and EF-S lenses when used with an optional adapter.

## About Macro Magnification

A life-size macro lens—that is, a 1x magnification—records an image on film at its actual size. If you're photographing fruits, for example, and it has a diameter of 1 in., it will occupy 1 in. of your actual slide or negative. With a digital SLR, at 1.0x magnification, the image projected onto your camera's sensor will likewise be the same size as the actual subject itself. Other macro lenses have lower or higher magnifications. A lens with 0.5x magnification will produce an image on film that is half the size of the actual subject. Your 1 in. fruit then would only occupy 0.5 in. on film.



0.25x



0.5x



1.0x



3.0x

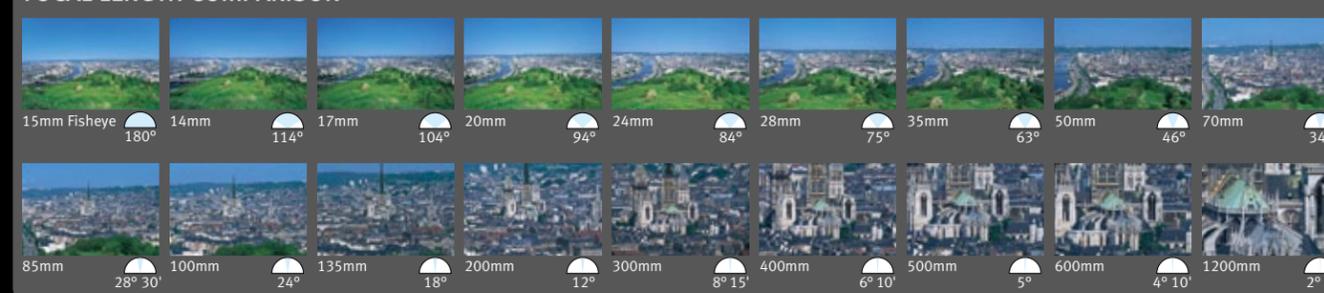


5.0x

In the other direction, a 5x magnification lens will convert the 1-in. fruit to a 5-in. diameter image. Since the entire image won't fit in the frame of your film, you will have an enlarged image of a detail of the fruit.

Magnification is not the same as focal length. A 50mm lens and a 180mm might both be macro lenses with, for example, 1.0x magnification. The advantage of the longer lens is that it allows greater distance from a subject, while allowing the same magnification in the final image. The 180mm lens is ideal for shooting tiny subjects without disturbing them; the 50mm is better choice for copying flat documents.

## FOCAL LENGTH COMPARISON

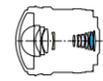
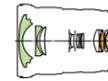
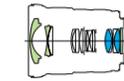
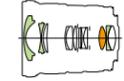


## Take In the Wider View.

Canon EF fixed-focal-length wide-angle lenses are exceptionally sharp, virtually distortion-free, and fast – making them great choices for low-light shooting. EF ultra-wide zooms deliver stunning perspectives. The added versatility of zooming makes them perfect for enthusiasts and professionals alike.

### EF/EF-S Lenses

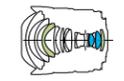
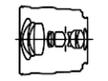
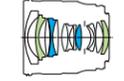
#### Ultra-Wide Zoom

			
EF 8-15mm f/4L Fisheye USM	EF-S 10-22mm f/3.5-4.5 USM*	EF 16-35mm f/2.8L II USM	EF 17-40mm f/4L USM
			
UD AL FT-M FASC CA	AL S-UD I/R CA FT-M	AL UD I/R FT-M CA DW-R	AL S-UD I/R FT-M DW-R

#### Wide-Angle



EF 28mm f/2.8 IS USM • f/2.8 • 1/4000 sec.

	
EF 14mm f/2.8L II USM	EF 20mm f/2.8 USM
	
AL UD <sub>2</sub> I/R FT-M	I/R FT-M Float
	
EF 24mm f/1.4L II USM	EF 24mm f/2.8
	
AL UD <sub>2</sub> I/R FT-M Float CA SWSC	I/R

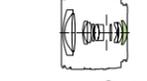
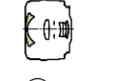
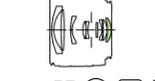
					
EF 24mm f/2.8 IS USM**	EF 28mm f/1.8 USM	EF 28mm f/2.8	EF 28mm f/2.8 IS USM**	EF 35mm f/1.4L USM	EF 35mm f/2
					
AL I/R FT-M OIS CA	AL I/R FT-M	AL	AL I/R FT-M OIS	CA	AL I/R FT-M Float

Diagram: ● Super UD Lens ● UD Lens ● Aspherical Lens Icons: See "EF Lens Technology" section.

\* For EOS 7D, 60D, 50D, 40D, 30D, 20D/20Da, Rebel T4i, T3i, T2i, T3, T1i, XSi, XS and all versions of EOS Digital Rebel only.

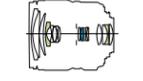
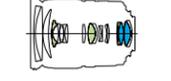
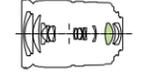
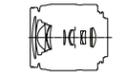
\*\* Please be advised that when EF 24mm f/2.8 IS USM and EF 28mm f/2.8 IS USM are used with EOS-1D Mark IV, the firmware of the camera should be updated to version 1.1.1 or later. The update helps to optimize the exposure accuracy. The firmware is available on our website.

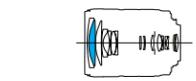
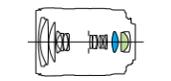
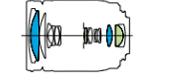
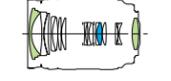
## See It. Capture It.

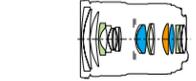
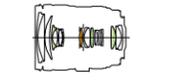
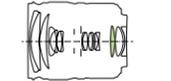
EF "standard" zooms cover a popular range of focal lengths for most photographers, from wide-angle through telephoto. This versatility makes them great for a wide range of shooting situations. EF medium telephoto lenses help deliver natural perspective with wide maximum apertures that make them ideal for low-light shooting.

## EF LENSES for EOS Cameras

#### Standard Zoom

			
EF-S 15-85mm f/3.5-5.6 IS USM*	EF-S 17-55mm f/2.8 IS USM*	EF-S 17-85mm f/4-5.6 IS USM*	EF-S 18-55mm f/3.5-5.6 IS II*
			
AL UD I/R OIS CA	AL UD I/R FT-M OIS CA	AL I/R FT-M OIS CA	AL OIS CA

			
EF-S 18-135mm f/3.5-5.6 IS STM*	EF-S 18-135mm f/3.5-5.6 IS*	EF-S 18-200mm f/3.5-5.6 IS*	EF 24-70mm f/2.8L USM
			
AL UD I/R OIS CA DIS STM	AL UD I/R OIS CA	AL UD OIS CA	AL UD I/R FT-M CA DW-R

		
EF 24-70mm f/2.8L II USM	EF 24-105mm f/4L IS USM	EF 28-135mm f/3.5-5.6 IS USM
		
AL S-UD I/R FT-M FASC UD DW-R CA	AL S-UD I/R FT-M OIS CA	AL I/R FT-M OIS

#### Standard and Medium Telephoto

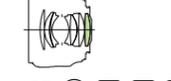
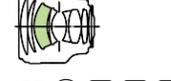
						
EF 40mm f/2.8 STM	EF 50mm f/1.2L USM	EF 50mm f/1.4 USM	EF 50mm f/1.8 II	EF 85mm f/1.2L II USM	EF 85mm f/1.8 USM	EF 100mm f/2 USM
						
AL STM CA	AL FT-M DW-R CA	FT-M		AL FT-M Float CA	I/R FT-M	I/R FT-M

Diagram: ● Super UD Lens ● UD Lens ● Aspherical Lens Icons: See "EF Lens Technology" section.

## Focus Your Attention.

Telephoto lenses make it easy to throw backgrounds out of focus, grab detail, or “get close” to unapproachable subjects... and these EF zoom lenses are superb tools for the job. EF fixed-focal-length telephotos combine great picture quality with fast maximum apertures, making them ideal for handheld shooting in low light.

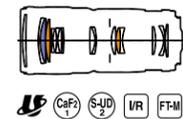
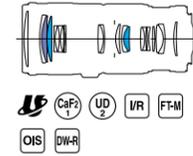
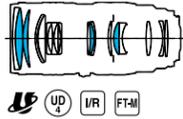
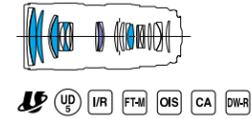
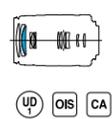
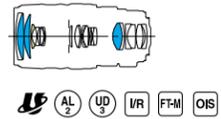
# EF LENSES

for EOS Cameras

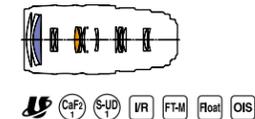
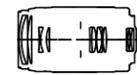
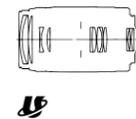
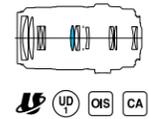
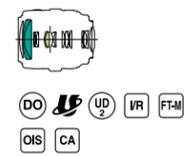
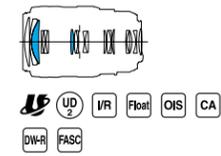
# EF LENSES

for EOS Cameras

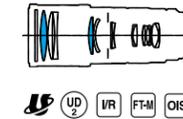
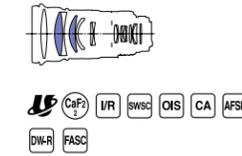
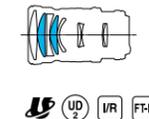
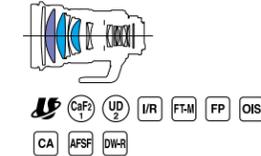
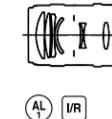
### Telephoto Zoom



70-300mm f/4-5.6L IS USM • f/5.6 • 1/1600 sec.



### Telephoto



300mm f/2.8L IS II USM • f/2.8 • 1/160 sec.

### Extenders

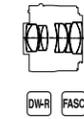


Diagram: ● Super UD Lens ● UD Lens ● Aspherical Lens Icons: See “EFLens Technology” section.

\* For EOS 7D, 60D, 50D, 40D, 30D, 20D/20Da, Rebel T4i, T3i, T2i, T3, T1i, XSi, XS and all versions of EOS Digital Rebel only.

Diagram: ● Super UD Lens ● UD Lens ● Aspherical Lens Icons: See “EFLens Technology” section.

## Up Close Detail from Afar.

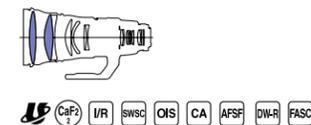
Distinguished by their white color and seen at major sporting events around the world, the powerful EF super-telephotos are also ideal for nature, scenic and even outdoor fashion photography. Canon's ring-type USM delivers a high level of focusing performance, and most feature Canon's superb Image Stabilization. EF tele extenders and extension tubes add even more power and versatility.

# EF LENSES for EOS Cameras

### Super Telephoto



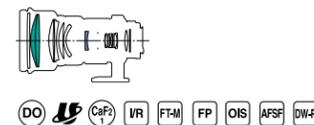
EF 400mm f/2.8L IS II USM



USM, CoP, I/R, SWSC, OIS, CA, AFSP, DW-R, FASC



EF 400mm f/4 DO IS USM



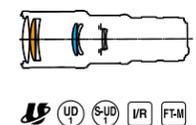
DO, USM, CoP, I/R, FT-M, FP, OIS, AFSP, DW-R



600mm f/4L IS II USM • f/4 • 1/400 sec.



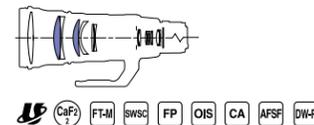
EF 400mm f/5.6L USM



USM, UD, S-UD, I/R, FT-M



EF 500mm f/4L IS II USM



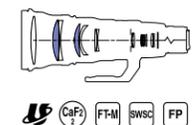
USM, CoP, FT-M, SWSC, FP, OIS, CA, AFSP, DW-R



400mm f/2.8L IS II USM • f/2.8 • 1/2500 sec.



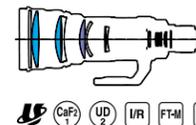
EF 600mm f/4L IS II USM



USM, CoP, FT-M, SWSC, FP, OIS, CA, AFSP, DW-R



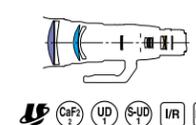
EF 600mm f/4L IS USM



USM, CoP, UD, I/R, FT-M, FP, OIS, AFSP, DW-R



EF 800mm f/5.6L IS USM



USM, CoP, UD, S-UD, I/R, FT-M, FP, OIS, CA, AFSP, DW-R

Diagram: ● Super UD Lens ● UD Lens ● Aspherical Lens Icons: See "EF Lens Technology" section.

## Solutions for Specialized Shooting.

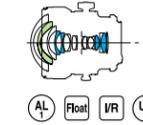
Canon's manual focus TS-E (Tilt-Shift) lenses provide tilt capability to alter the plane of focus and shift capability for perspective correction, offering solutions for numerous applications, from architectural to studio photography. Canon also offers a range of close-up, high-magnification shooting solutions with a lineup of exceptional macro lenses and accessories.

# EF LENSES for EOS Cameras

### Tilt-Shift



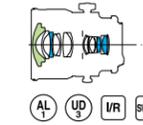
TS-E 17mm f/4L



AL, Float, I/R, UD, SWSC



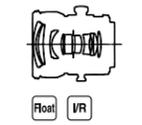
TS-E 24mm f/3.5L II



AL, UD, I/R, SWSC



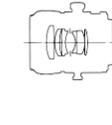
TS-E 45mm f/2.8



Float, I/R



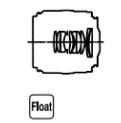
TS-E 90mm f/2.8



### Macro



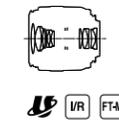
EF 50mm f/2.5 Compact Macro



Float



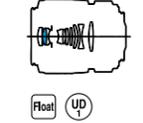
EF-S 60mm f/2.8 Macro USM\*



USM, I/R, FT-M, Float, CA



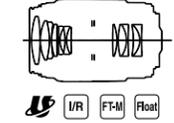
MP-E 65mm f/2.8 1-5x Macro Photo



Float, UD



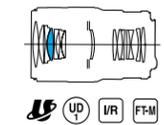
EF 100mm f/2.8 Macro USM



USM, I/R, FT-M, Float



EF 100mm f/2.8L Macro IS USM

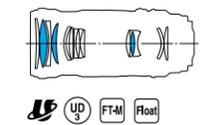


USM, UD, I/R, FT-M, OIS, CA

HYBRID IS  
HYBRID IMAGE STABILIZER



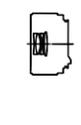
EF 180mm f/3.5L Macro USM



USM, UD, FT-M, Float



Life-Size Converter EF



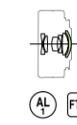
EF 100mm f/2.8L Macro IS USM • f/3.5 • 1/100 sec.

### EF-M Lenses

#### Wide-Angle



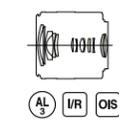
EF-M 22mm f/2 STM\*\*\*



AL, FT-M, CA, Float, STM



EF-M 18-55mm f/3.5-5.6 IS STM\*\*\*



AL, I/R, OIS, CA, DNS, STM

Diagram: ● Super UD Lens ● UD Lens ● Aspherical Lens Icons: See "EF Lens Technology" section.

\* For EOS 7D, 60D, 50D, 40D, 30D, 20D/20Da, Rebel T4i, T3i, T2i, T3, T1i, XSi, XS and all versions of EOS Digital Rebel only.  
\*\*\* For EOS M only.

## EF Lens Chart

CANON EF LENS SPECIFICATIONS	Apparent Focal length (mm)		Focus Drive	Angle of View (Diagonal)			Lens Construction (Groups/Elements)	Minimum Aperture (f)	Filter Diameter (mm)	Closest Focusing Distance		Length		Weight		Lens Hood	Lens Cap	Soft Case
	APS-C	APS-H		35mm	APS-C	APS-H				(ft.)	(m)	(in.)	(mm)	(oz.)	(g)			
<b>EF/EF-S Lenses</b>																		
<b>Standard Zoom</b>																		
• EF5 15–85mm f/3.5–5.6 IS USM ††	124–136	N/A	Ultrasonic	N/A	84°30'–18°25'	N/A	12/17	36	72	1.15	0.35	3–7/16	87.5	20.3	575	EW-78E	E-72U	LP1116
• EF5 17–55mm f/2.8 IS USM ††	27–88	N/A	Ultrasonic	N/A	78°30'–27°50'	N/A	12/19	22	77	1.5	0.45	4–2/5	110.6	22.8	645	EW-83J	E-77U	–
• EF5 17–85mm f/4–5.6 IS USM ††	27–136	N/A	Ultrasonic	N/A	78°30'–18°25'	N/A	12/17	22	67	1.1	0.35	3–5/8	92.0	1.1 lbs.	475	EW-73B	E-67U	LP1116
• EF5 18–55mm f/3.5–5.6 IS † / II ††	29–88	N/A	MM	N/A	74°20'–27°50'	N/A	9/11	22	58	0.82	0.25	2–3/4	68.5	7.8	200	EW-60C	E-58	LP814
• EF5 18–55mm f/3.5–5.6 USM † / ††	29–88	N/A	Ultrasonic	N/A	74°20'–27°50'	N/A	9/11	22–38	58	0.92	0.28	2–5/8	66.2	6.7	190	EW-60C	E-58U	LP814
• EF5 18–55mm f/3.5–5.6 II ****	29–88	N/A	MM	N/A	74°20'–27°50'	N/A	9/11	22–38	58	0.92	0.28	2–5/8	66.2	6.7	190	EW-60C	E-58U	LP814
• EF5 18–135mm f/3.5–5.6 IS †	29–216	N/A	MM	N/A	74°20'–11°30'	N/A	12/16	36	67	1.5	0.45	4	101	16.0	455	EW-73B	E-67	LP1116
• EF5 18–135mm f/3.5–5.6 IS STM ††	29–216	N/A	STM	N/A	74°20'–11°30'	N/A	12/16	22–36	67	1.3	0.39	3.8	96	16.9	480	EW-73B	E-67	LP1116
• EF5 18–200mm f/3.5–5.6 IS ††	29–320	N/A	DC motor	N/A	74°20'–07°48'	N/A	12/16	22–36	72	1.5	0.45	–	102	21.0	595	EW-78D	E-72	LP1116
• EF22–55mm f/4–6.3 USM †	–	–	Ultrasonic	88°56'–42°52'	63°38'–27°52'	75°03'–34°09'	9/9	22–32	58	–	0.35	4–7/8	–	–	175	–	–	–
• EF24–70mm f/2.8L USM	38–112	31–91	Ultrasonic	84°–34°	59°15'–22°04'	70°18'–27°08'	13/16	22	77	1.25	0.38	4.4	123.5	2.1 lbs.	950	EW-83F	E-77U	LP1219
• EF24–70mm f/2.8L II USM	38–112	31–91	Ultrasonic	84°–34°	59°15'–22°04'	N/A	13/18	22	82	1.25	0.38	2–3/4	113	28.4	805	EW-88C	E-82U	LP1219
• EF24–85mm f/3.5–4.5 USM †	38–136	31–111	Ultrasonic	84°–28°30'	59°15'–18°14'	70°18'–22°29'	12/15	22–32	67	1.6	0.5	3–5/16	69.5	13.4	380	EW-73II	E-67U	LP1014
• EF24–105mm f/4L IS USM	38–168	31–136	Ultrasonic	84°–23°20'	59°15'–14°48'	70°18'–18°17'	13/18	22–27	77	1.5	0.45	4–5/8	83.5	1.5 lbs.	670	EW-83H	E-77U	LP1219
• EF28–70mm f/2.8L USM †	–	–	Ultrasonic	75°–34°	51°58'–22°04'	62°13'–27°08'	11/16	22	77	1.6	0.5	–	117.6	1.9 lbs.	880	EW-83B	E-77U	–
• EF28–70mm f/3.5–4.5 †	–	–	MM	75°–34°	51°58'–22°04'	62°13'–27°08'	9/10	29	52	–	0.39	2–13/16	–	–	300	–	–	–
• EF28–80mm f/3.5–5.6 IV USM † / V USM †	45–128	36–104	Ultrasonic	75°–30°	51°58'–19°21'	62°13'–25°51'	10/10	22–38	58	1.25	0.38	2–13/16	71.2	7.8	200	EW-60C	E-58	LP814
• EF28–80mm f/3.5–5.6 III † / II †	45–128	36–104	MM	75°–30°	51°58'–19°21'	62°13'–25°51'	10/10	22–38	58	1.25	0.38	2–13/16	71.2	7.8	200	EW-60C	E-58	LP814
• EF28–80mm f/3.5–5.6 †	45–128	36–104	MM	75°–30°	51°58'–19°21'	62°13'–25°51'	10/10	22–38	58	1.25	0.38	2–13/16	71.2	7.8	200	EW-60C	E-58	LP814
• EF28–90mm f/4–5.6 III † / I USM †	45–144	36–117	MM/Ultrasonic	75°–27°	51°58'–17°14'	62°13'–21°16'	8/10	22–32	58	1.3	0.38	2–13/16	71.0	6.7	190	EW-60C	E-58U/E-58	LP814
• EF28–90mm f/4–5.6 USM †	45–144	36–117	Ultrasonic	75°–27°	51°58'–17°14'	62°13'–21°16'	8/10	22–32	58	1.3	0.38	3	71.0	6.7	190	EW-60C	E-58	LP814
• EF28–105mm f/3.5–4.5 II USM † / USM †	45–168	36–136	Ultrasonic	75°–23°20'	51°58'–14°48'	62°13'–18°17'	12/15	22–27	58	1.6	0.5	2–11/16	75.0	13.1	375	EW-63II	E-58U	LP814
• EF28–105mm f/4–5.6 USM †	45–168	36–136	Ultrasonic	75°–23°20'	51°58'–14°48'	62°13'–18°17'	9/10	22–32	58	1.57	0.48	3–13/16	68.0	7.4	210	EW-63B	E-58U	LP814
• EF28–135mm f/3.5–5.6 IS USM	42–216	36–176	Ultrasonic	75°–18°	51°58'–11°32'	62°13'–14°16'	12/16	22–36	72	1.64	0.5	3–1/2	96.6	1.2 lbs.	540	EW-788II	E-72U	LP1116
• EF28–200mm f/3.5–5.6 USM †	45–320	36–260	Ultrasonic	75°–12°	51°58'–07°48'	62°13'–09°39'	12/16	22–36	72	1.5	0.45	2–1/2	89.8	1.1 lbs.	500	EW-78D	E-72U	LP1116
• EF35–80mm f/4–5.6 III † / II † / USM †	56–128	46–104	MM	63°–30°	42°36'–19°21'	51°32'–23°51'	8/8	22–32	52	1.3	0.4	3–3/8	63.5	6.2	175	EW-54II	E-52	LP814
• EF35–135mm f/4–5.6 USM †	–	–	Ultrasonic	63°–18°	42°36'–11°32'	51°32'–14°16'	12/14	22–32	58	2.5	0.75	–	86.0	15.0	425	EW-62	–	–
<b>Telephoto Zoom</b>																		
• EF28–300mm f/3.5–5.6L IS USM	45–480	36–390	Ultrasonic	75°–8°15'	51°58'–5°12'	62°13'–06°26'	16/22	38	77	2.3	0.7	7–1/4	184.0	3.7 lbs.	1,670	EW-83G	E-77U	LZ1324
• EF35–350mm f/3.5–5.6L USM †	–	–	Ultrasonic	63°–07°03'	42°36'–04°28'	51°32'–05°31'	15/21	22–32	72	2.0	0.6	6–9/16	167	3.0 lbs.	1,385	EW-78	E-72U	–
• EF55–200mm f/4.5–5.6 II USM † / USM †	88–320	72–260	Ultrasonic	72–260	27°–07°48'	34°09'–09°39'	13/13	22–29	52	3.9	1.2	3–13/16	97.3	10.9	310	EF-54	E-52U	LP1016
• EF55–250mm f/4–5.6 IS † / II ††	88–400	91–260	DC motor	N/A	27°5'–6°15'	N/A	10/12	22–32	58	3.6	1.1	4.3	108	13.8	390	EF-60	E-58	LP1019
• EF70–200mm f/2.8L IS II USM	112–320	91–260	Ultrasonic	34°–12°	22°04'–07°48'	27°08'–09°39'	19/23	32	77	3.9	1.2	7.8	199	3.3 lbs	1,490	EF-87	E-77U	LZ1326
• EF70–200mm f/2.8L USM † / USM †	112–320	91–260	Ultrasonic	34°–12°	22°04'–07°48'	27°08'–09°39'	18/23	32	77	4.6	1.4	7–13/16	197.0	3.2 lbs.	1,470	EF-86	E-77U	LZ1324
• EF70–200mm f/4L IS USM	112–320	91–260	Ultrasonic	34°–12°	22°04'–07°48'	27°08'–09°39'	15/20	32	67	3.9	1.2	6–7/8	172.0	26.8	760	EF-74	E-67U	LP1224
• EF70–200mm f/4L USM	112–320	91–260	Ultrasonic	34°–12°	22°04'–07°48'	27°08'–09°39'	13/16	32	67	3.9	1.2	6–7/8	172.0	19.2	705	EF-74	E-67U	LP1224
• EF70–300mm f/4–5.6L IS USM ****	112–480	91–390	Ultrasonic	34°–8°15'	22°04'–05°12'	27°08'–06°26'	19/14	32	67	3.9	1.2	5.6	143	27.8	788	EF-73B	E-67U	LP1424
• EF70–300mm f/4.5–5.6 DO IS USM	112–480	91–390	Ultrasonic	34°–8°15'	22°04'–05°12'	27°08'–06°26'	12/18	32–38	58	4.6	1.4	3–7/8	99.0	1.6 lbs.	720	EF-65B	E-58U	LP1116
• EF70–300mm f/4–5.6 IS USM	112–480	91–390	Ultrasonic	34°–8°15'	22°04'–05°12'	27°08'–06°26'	10/15	32–45	58	4.9	1.5	5–7/16	137.2	1.4 lbs.	630	EF-65B	E-58U	LP1222
• EF75–300mm f/4–5.6 IS USM †	120–480	98–390	Ultrasonic	32°11'–8°15'	20°37'–05°12'	25°23'–06°26'	10/15	32–45	58	4.9	1.5	5–7/16	137.2	1.4 lbs.	650	EF-64II	E-58U	LP1022
• EF75–300mm f/4–5.6L USM/III USM †	120–480	98–390	MM/Ultrasonic	32°11'–8°15'	20°37'–05°12'	25°23'–06°26'	9/13	32–45	58	4.9	1.5	4–13/16	122.0	1.1 lbs.	480	EF-60	E-58U	LP1019
• EF75–300mm f/4–5.6 USM	120–480	98–390	Ultrasonic	32°11'–8°15'	20°37'–05°12'	25°23'–06°26'	10/15	32–45	58	4.9	1.5	5–7/16	137.2	1.4 lbs.	650	EF-64II	E-58U	LP1022
• EF80–200mm f/2.8L †	–	–	AFD	30°–12°	19°21'–07°48'	25°31'–09°39'	13/16	32	72	5.9	1.8	7–5/16	186	2.9 lbs.	1,330	ES-79	–	–
• EF80–200mm f/4.5–5.6 II † / USM †	128–320	104–260	MM/Ultrasonic	30°–12°	19°21'–07°48'	25°31'–09°39'	7/10	22–27	52	4.9	1.5	3–1/8	78.5	8.8	250	EF-54	E-52	LP1014
• EF100–300mm f/4.5–5.6L USM †	160–480	130–390	Ultrasonic	24°–8°15'	15°32'–05°12'	19°11'–06°26'	10/13	32–38	58	4.9	1.5	4–3/4	121.5	1.2 lbs.	540	EF-65III	E-58U	LP1019
• EF100–300mm f/5.6L †	–	–	AFD	24°–8°15'	15°32'–05°12'	19°11'–06°26'	10/15	32	58	4.6	1.4	6–9/16	167	1.5 lbs.	695	EF-62II	–	–
• EF100–400mm f/4.5–5.6L IS USM	160–640	130–520	Ultrasonic	24°–6°10'	15°32'–03°54'	19°11'–04°50'	14/17	32–38	77	5.9	1.8	7–7/16	189.0	3.0 lbs.	1,360	EF-83C	E-77U	LZ1324
<b>Wide-Angle</b>																		
• EF14mm f/2.8L II USM	22	18	Ultrasonic	114°	88°32'	100°43'	11/14	22	Gelatin	0.66	0.2	–3/4	116.0	22.8	645	Built-in	Exclusive	LP1016
• EF14mm f/2.8L USM †	22	18	Ultrasonic	114°	88°32'	100°43'	10/14	22	Gelatin	0.8	0.25	3–1/2	89.0	1.2 lbs.	560	Built-in	Exclusive	LP1016
• EF15mm f/2.8 Fisheye †	24	20	AFD	180°	108°15'	137°08'	7/8	22	Gelatin	0.7	0.2	2–7/16	62.2	11.6	330	Built-in	E-73	LP814
• EF20mm f/2.8 USM	32	26	Ultrasonic	94°	68°37'	80°23'	9/11	22	72	0.8	0.25	2–13/16	70.6	14.3	405	EW-75II	E-72U	LP1214
• EF24mm f/1.4L II USM	38	31	Ultrasonic	84°	59°15'	70°18'	10/13	22	77	0.8	0.25	3.4	86.9	22.9	650	EW-83K	E-77U	LP1319
• EF24mm f/1.4L USM †	38	31	Ultrasonic	84°	59°15'	70°18'	9/11	22	77	0.82	0.25	3	77.4					

## The Finest Accessories for Your Lenses.

To enhance the stellar features of the EF Lens system, there are a number of accessories designed to perform perfectly with your system. Canon offers cases to help protect your lenses, hoods and filters to help control glare, and a number of adapters to further expand the possibilities of your EF Lenses and your EOS System.

### General Purpose



**Haze (UV-1)**  
The Haze (UV-1) filter absorbs ultraviolet light and is most effective on sunny days for cutting haze out of the shot.

Type	Available Sizes
Screw-in	67mm, 72mm, 77mm, 82mm



**Drop-in Screw Filter Holder**  
A holder for screw-type filters, for use with rear-mounted drop-in filters.

Type	Available Sizes
Drop-in	48mm, 52mm. Includes clear filter. For super-telephoto lenses. Current IS Super-tele-52mm. Previous super-tele without IS—48mm.

**Lens Cases and Lens Hoods**  
These functional, rugged cases are indispensable to help protect lenses. Lens hoods help prevent unwanted glare from affecting your photographs.

### Polarizing Filters



Not using Circular PL Filter



Using Circular PL Filter emphasizes the blue of the sky.



Not using Circular PL Filter



Using Circular PL Filter suppresses the reflection from the surface of the leaves and the surface of the water.

### Close-up Lenses



With Close-up Lens



**Close-up Lens 250D/500D/500**  
The 250D/500D series incorporates double-element achromatic design for maximum optical performance. These screw-in lenses are used to provide a shorter minimum focusing distance with no loss of light. Each lens is optimized for a particular focal length. Manual focus is recommended with these lenses.

Type	Available Sizes
Screw-in	500D/500: 52mm, 72mm, 77mm. Optimized for lenses 70 thru 300mm. 250D: 52mm, 58mm. Optimized for lenses 50 thru 135mm.



**Circular Polarizing Filter PL-CB/PL-C**  
Polarizing filters enhance picture quality by blocking harmful reflected light. Use it to reduce light reflections from glass and water surfaces or to improve color saturation. Simple to use, these filters polarize light circularly, rather than linearly, so they do not interfere with autofocus or TTL light metering.

**DROP-IN** — For use with lenses using rear-mounted drop-in filters, this polarizing filter can be rotated from the outside without removing the holder from the lens, helping enable precise control.

Type	Available Sizes
Screw-in	52mm, 58mm, 67mm, 72mm, 77mm, 82mm
Drop-in	48mm, 52mm. For super-telephoto lenses. Current IS Super-tele-52mm. Previous super-tele without IS—48mm.

### Extension Tubes



**Extension Tube EF 25 II & EF 12 II**  
These close-up accessories are placed between the camera body and lens to help enable high-magnification photography. Eight electronic contact points allow communication between the camera and lens to continue as usual. The magnification differs according to the lens, but for standard zoom lenses it is about 0.3x to 0.5x for the EF 12 and 0.7x or more for the EF 25. By using both tubes effectively, the choice of magnifications can be greatly extended. However, for best results, manual focusing is recommended.

### Loupes

**Loupe 4x**  
Designed for viewing 35mm film frames at high magnifications, these loupes use a high-performance lens system that help to eliminate all aberration and distortion. They offer diopter adjustment of -4 to +1 dpt, and include an eyecup, hood and case.



### Mount Adapter

**Mount Adapter EF-EOS M**  
The optional Mount Adapter EF-EOS M makes the EOS M Digital Camera compatible with the entire line of Canon's EF and EF-S lenses for complete versatility, from a fisheye to telephoto and everywhere in between.



### Gelatin Filter Holders



**Gelatin Filter Holder System**  
This convenient holder system allows the use of commercially available square filters without the need for cutting. The holder attaches to the lens through an adapter that fits the filter diameter. A special hood is available for use with the system. Use with 3-inch square type III and 4-inch square type IV gelatin filters. Gelatin filters can be used with most EF lenses.

Type	Available Sizes
Screw-in	Holder for 3-inch square (III) or 4-inch (IV) gelatin filters.

Type	Available Sizes
Screw-in	Lens shades which attach to holder can be stacked with telephoto lenses.

Type	Available Sizes
Screw-in	III: 52mm, 58mm, 67mm, 72mm, 77mm. IV: 58mm, 67mm, 72mm, 77mm.

**Drop-in Gelatin Filter Holder II**  
Up to three gelatin filters can be placed in these holders. To use, insert a cut piece of gelatin film between the holder's filter frame and pressure clip, and screw on to the lens.



Type	Available Sizes
Drop-in	48mm, 52mm. For super-telephoto lenses. Current IS Super-tele-52mm. Previous super-tele without IS—48mm.

Extender EF Specifications	with Extender EF 1.4x III attached						with Extender EF 2x III attached					
	Apparent Focal Length (mm)						Apparent Focal Length (mm)					
	35mm	APS-H	APS-C	f-stop (f)	Maximum Magnification	AF	35mm	APS-H	APS-C	f-stop (f)	Maximum Magnification	AF
EF 135mm f/2L USM	189	246	302	2.5-4.5	0.27	○	270	351	432	4-6.4	0.38	○
EF 180mm f/3.5L Macro USM	252	328	403	4.5-4.5	1.4	○*1	360	468	576	6.7-6.4	2.00	×
EF 200mm f/2.8L II USM	280	364	448	2.5-3.2	0.22	○	400	520	640	5.6-6.4	0.32	○
EF 200mm f/2L IS USM	280	364	448	2.8-4.5	0.18	○	400	520	640	4-6.4	0.24	○*4
EF 300mm f/2.8L IS II USM	420	546	672	4-4.5	0.15	○	600	780	960	5.6-6.4	0.28	○
EF 300mm f/2.8L IS USM	420	546	672	4-4.5	0.15	○	600	780	960	5.6-6.4	0.28	○
EF 300mm f/4L IS USM	420	546	672	5.6-4.5	0.33	○	600	780	960	8-6.4	0.47	×
EF 400mm f/2.8L IS II USM	560	728	896	4-4.5	0.22	○	800	1,040	1,280	5.6-6.4	0.31	○
EF 400mm f/2.8L IS USM	560	728	896	4-4.5	0.22	○	800	1,040	1,280	5.6-6.4	0.31	○
EF 400mm f/4 DO IS USM	560	728	896	5.6-4.5	0.17	○	800	1,040	1,280	8-6.4	0.24	×
EF 400mm f/5.6L IS USM	560	728	896	8-4.5	0.18	×						
EF 500mm f/4L IS USM	700	910	1,120	5.6-6.4	0.17	○	1,000	1,300	1,600	8-9.0	0.27	×
EF 500mm f/4L IS II USM	700	910	1,120	5.6-4.5	0.21	○	1,000	1,300	1,600	8-6.4	0.31	○*1 †
EF 600mm f/4L IS USM	840	1,092	1,344	5.6-6.4	0.17	○	1,200	1,560	1,920	8-9.0	0.27	×
EF 600mm f/4L IS II USM	840	1,092	1,344	5.6-4.5	0.21	○	1,200	1,560	1,920	8-6.4	0.30	○*1 †
EF 800mm f/5.6L IS USM	1,120	1,456	1,792	8-4.5	0.2	×						
EF 1200mm f/5.6L USM	1,680	2,184	2,688	8-4.5	0.12	×						
EF 70-200mm f/2.8L IS II USM	98-280	127-364	157-448	4-4.5	0.22	○	140-400	182-520	224-640	5.6-6.4	0.44	○
EF 70-200mm f/2.8L IS USM	98-280	127-364	157-448	4-4.5	0.22	○	140-400	182-520	224-640	5.6-6.4	0.44	○
EF 70-200mm f/4L IS USM / USM	98-280	127-364	157-448	5.6-4.5	0.29	○	140-400	182-520	224-640	8-6.4	0.42	×
EF 100-400mm f/4.5-5.6L IS USM	140-560	182-728	224-896	6.7-5.4	0.28	×						

**For Best Results with Your Canon EOS Camera Use Original Canon EF Lenses.**  
Each EOS camera body and each EF Lens has its own built-in microcomputer. These microcomputers store a range of special data to ensure the smooth operation of bodies and EF lenses which support two-way digital communications between each part to allow exchange of information. Since the EOS System's market launch in 1987, functions have been added and improved on a continuing basis, such as Optical Image Stabilizer to some lenses, speeding up the AF function, increasing the number of focusing points, and the addition of the Eye Controlled Focus™ Function. As the system's range of functions has evolved, the nature of the basic system of communications between lens and body has evolved as well, ensuring that complete compatibility is maintained. This process of evolution will continue in the future with the addition of more new specifications, resulting in still further gains in reliability. Accordingly, in order to realize the maximum performance of the EOS System and thereby achieve among the highest possible photographic quality, we recommend that you use Canon EF lenses and Canon brand accessories, since they are designed and manufactured to match the special qualities of your EOS camera.

\*1 The autofocus range is from 2.6 feet/0.8m to infinity. \*2 With the EOS-1Ds Mark III, EOS-1Ds Mark II, EOS-1D Mark III, EOS-1D Mark II, EOS-1Ds, EOS-1D, EOS-1v and EOS-3, AF is possible with the center focusing point only. \*3 The Image Stabilizer does not operate with the following cameras: EOS650, EOS 620, 600, RT, 700, 750, 850, EOS-1, A2, A2E, 10s, ELAN, Rebel, Rebel S, Rebel II and Rebel SLI. \*4 With the EOS-1Ds Mark II, EOS-1Ds, EOS-1D Mark II, EOS-1D Mark III, EOS-1D, EOS-1v, EOS-1v HS and EOS-3, AF is possible with the center focusing point only. † With the firmware update, the EOS-1D X allows cross-type autofocus with the center AF point when the maximum aperture of the Canon EF lens becomes 1/8 with an EF extender attached. Download firmware now at: [usa.canon.com/eos1dxfirmwareupdate](http://usa.canon.com/eos1dxfirmwareupdate)



# SPEEDLITE TECHNOLOGY



Integral to the EOS System, Canon Speedlites are the ideal flash source for EOS cameras. They are technologically advanced to provide perfect exposure and illumination with just about any subject, yet operation is remarkably simple. Whether you're an amateur or an expert, Canon Speedlites make it easy to obtain professional results.

### Sophisticated Flash Control Modes

**E-TTL**—In E-TTL (Evaluative Through-The-Lens) flash exposure control mode, meter readings are taken through the lens, but not off the focal plane. Using a preflash fired after the shutter button has been fully depressed—but before the camera's reflex mirror goes up—E-TTL uses the camera's Evaluative metering sensor 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 (as identified by the AF point) and the background. E-TTL requires the use of EX-series dedicated Speedlites such as the 600EX-RT, 580EX II, 430EX II, 320EX, 270EX II, MT-24EX, or MR-14EX in combination with a compatible camera.

**E-TTL II**—Available on Canon's EOS DSLR cameras, E-TTL II incorporates distance information from compatible EF lenses (see page 34 for details) for more versatile flash exposure control. E-TTL II minimizes underexposure that can occur with straight reflections by ignoring sensor areas that report abnormally high levels. This feature is useful 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 overexposure when photographers lock focus and recompose. For example, with the EOS 5D Mark III the ambient light is first measured using the camera's 63-zone metering

SLR Compatibility			
Camera Model	E-TTL	E-TTL II	A-TTL / TTL
EOS-1D X	No	Yes†	Not Possible
EOS-1Ds Mark III	No	Yes†	Not Possible
EOS-1D Mark IV	No	Yes†	Not Possible
EOS 5D Mark III	No	Yes†	Not Possible
EOS 6D	No	Yes†	Not Possible
EOS 5D Mark II	No	Yes†	Not Possible
EOS 7D	No	Yes†	Not Possible
EOS 60D / 50D / 40D / 30D	No	Yes†	Not Possible
EOS Rebel T4i / T3i / T3 / T2i / T1i / XSi / XS	No	Yes†	Not Possible
EOS Digital Rebel XTi / XT	No	Yes†	Not Possible
EOS-1v / EOS-3	Yes	No	4-point/3-zone
EOS ELAN 7 <sup>ne</sup>	Yes	Yes	4-point/3-zone
EOS Rebel T2 / T2 Date	No	Yes	Not Possible
EOS Rebel K2 / K2 Date	Yes	No	4-point/3-zone

Speedlite Compatibility				
E-TTL / E-TTL II	E-TTL / E-TTL II	A-TTL	TTL	Manual
600EX-RT	Yes††	No	Yes†††	Yes
580EX II	Yes††	No	Yes†††	Yes
430EX II	Yes††	No	No	Yes
320EX	Yes††	No	No	Yes
270EX II	Yes††	No	No	Yes
90EX	Yes††	No	No	Yes
MR-14EX	Yes††	No	Yes†††	Yes
MT-24EX	Yes††	No	Yes†††	Yes

† Not Linked to AF point. †† Requires EOS body that supports E-TTL and E-TTL II respectively. ††† Defaults to TTL in all conditions except direct flash in the camera's Program mode.

when the shutter button is pressed. Next, a preflash is fired and the metering sensor takes readings. The ambient and preflash readings are compared. The metering areas having small differences are selected as the main flash exposure areas. Areas with large discrepancies between ambient and preflash readings are excluded or down-weighted because they are assumed to contain a highly reflective subject, or the subject is not in that part of the frame—an assumption validated by distance information. The algorithm thus helps avoid chronic underexposure problems in such situations. These readings are weighted, averaged, and compared with the ambient light reading and the main flash output is then set and stored in memory. The E-TTL II, in effect, captures the subject as a “plane” and not as a “point.” As a result, EOS SLR cameras can help deliver consistent flash exposures even if the subject contains various colors and levels of reflection. The camera also allows the user to select an averaged metering pattern through custom function settings.

**TTL\***—TTL (Through-The-Lens) is the standard flash exposure control mode used by the built-in flash units that come with some 35mm EOS film cameras. Unlike E-TTL or E-TTL II, TTL reads flash illumination reflected from the film during the exposure. When the camera is set to Program AE mode, TTL flash sets an aperture based on the ambient light level.

### Flash Exposure Lock (FE Lock)

FE Lock adds Auto Exposure lock and Spot metering functions when shooting with EX-series Speedlites and E-TTL compatible EOS cameras. The EX-series Speedlite's preflash fires when

the camera's AE Lock button is depressed, storing a Spot meter reading of flash and ambient lighting data for up to 16 seconds. This provides enough time to not only recompose the shot, but also alter the ambient light exposure for maximum creative control. FE Lock is extremely useful when you wish to recompose after focus lock or to place the main subject in a part of the frame not covered by one of the focusing points. It can also eliminate potential exposure errors caused by unwanted reflections from surfaces like windows or mirrors.

### Adjusting Ambient Exposure in FE Lock\*\*

—After preflashing the subject with the FE Lock button, ambient exposure can be adjusted by turning the Quick Control Dial. The ambient exposure level is displayed on the exposure level scale in the viewfinder and on the external LCD panel.

### FP Mode\*\*\*

FP (focal-plane) flash, or High-speed Sync, enables E-TTL and E-TTL II compatible cameras equipped with an EX-series Speedlite to synchronize flash at shutter speeds faster than the camera's normal maximum sync speed. Even in bright daylight, for example, a fast lens can be used at a wide aperture to reduce depth-of-field and emphasize the subject. FP flash can be combined with E-TTL, E-TTL II, or FE Lock, and is available in all AE modes plus Manual.

### Flash Exposure Compensation\*\*\*\*

This setting adjusts flash output without changing the shutter speed or aperture. It's



Taken with MT-24EX and EOS-1v HS



High-Speed Sync — EF 135mm f/2.0L USM lens • f/2 • 1/750 sec.

a particularly effective way to fine-tune the balance between foreground and background exposure for fill flash shots, but it can also be used to compensate for extremely bright or dark tones in the subject.

### Second-Curtain Sync

Instead of firing the instant the shutter opens, Second-Curtain Sync fires the flash at the end of the exposure, allowing streaks of light to flow naturally behind a moving subject. This creative flash mode is most effective with slower shutter speeds and subjects with light sources, such as the headlights of a moving car.

### Stroboscopic Flash

Stroboscopic flash is a series of flashes fired in rapid succession during a single exposure. With stroboscopic flash, multiple images of a moving subject appear in the photograph. Using this mode, you can analyze a golf swing or record the shattering of a windowpane. (Available with Speedlite 600EX-RT, 580EX II, Macro Ring Lite MR-14EX, Macro Twin Lite MT-24EX, and the built-in flash of the EOS 7D).

### LED Light

In a first for Canon Speedlite flashes, the 320EX features a bright, built-in LED light for illumination when shooting video or for use as a modelling light. With fully charged AA batteries, the LED light can last for up to four hours of continuous use.



### Flash Release Function

Select Speedlite models include a convenient feature that enables photographers to release the camera shutter from the remote flash wirelessly with a 2-second delay. With EOS DSLR cameras that provide a master function with remote reception mode, this feature makes it possible to reposition the flash with complete freedom — even out of the camera's line-of-sight and at some distance from the camera.

\*A-TTL and TTL are not compatible with DSLR cameras. See lens chart for a listing of lenses that supply distance information. \*\*Ambient exposure cannot be adjusted when the camera is set to Bulb mode or in low-light situations when the camera is set to Program AE or A-DEP. \*\*\*Unlike conventional electronic flash, FP flash output (guide number) decreases as shutter speed increases above normal X-sync speed. \*\*\*\*Flash exposure compensation can be set with most current Speedlites, and it can also be set with all current EOS cameras other than the EOS Rebel series and EOS Digital Rebel.

# Wireless Flash Photography



The Canon EX series Speedlites have made multiple-flash photography simple, wireless and automatic. Using the Speedlite 600EX-RT, 580EX II, Macro Speedlite MR-14EX, Macro Twin Lite MT-24EX, or Speedlite Transmitters ST-E2 or ST-E3-RT as a master unit, wireless signals are transmitted to numerous Speedlites, creating myriad possibilities for lighting, no matter the location. Both the EOS 7D and EOS 60D have Integrated Speedlite Transmitters, which have the transmitting features of the Speedlite 580EX II, allowing users to wirelessly control EX series Speedlites and doing away with the need for an external master unit. The new Speedlite 600EX-RT and the Speedlite Transmitter ST-E3-RT take wireless control to the next level, using two-way radio signals in addition to traditional wireless.

## Wireless Radio Control

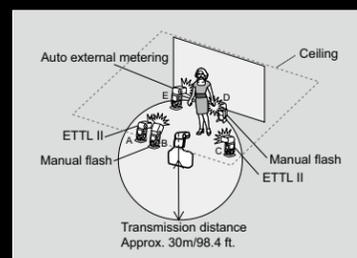
For sophisticated wireless flash setups, the Speedlite 600EX-RT and the Speedlite Transmitter ST-E3-RT represent the next generation in wireless flash systems. In addition to traditional optical wireless transmission, both the Speedlite 600EX-RT and the Speedlite Transmitter ST-E3-RT facilitate radio controlled, two-way wireless transmission up to 100 feet, among up to five groups or 15 individual Speedlites. Communicating on 2.4 GHz frequencies for radio transmission, radio controlled flash systems do not have the same directional limitations of traditional wireless optical



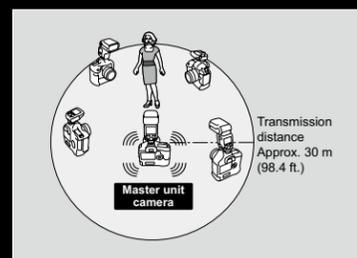
Group firing mode

transmitters. Where other wireless systems signals can be interrupted with physical obstacles, radio controlled systems excel. To avoid interference with other equipment on the same frequency, 15 transmission channels are available, selectable manually or automatically, and radio transmission IDs can be set to prevent misfiring in the event of signal interference on the same channel. With diverse flash metering options, and a number of flash modes all accessible from the menu and quick control screens of the EOS-1D X and the EOS 5D Mark III, the Speedlite 600EX-RT and the Speedlite Transmitter ST-E3-RT make complex lighting setups simple. With compact, weather sealed and reliable designs, combined with improved information panels and controls, Speedlite 600EX-RT and the Speedlite Transmitter ST-E3-RT are indispensable, eminently adaptable tools for advanced, professional flash photography.

<sup>1</sup> Group firing mode is supported by the EOS-1D X, EOS 5D Mark III and later camera models. In earlier camera models, all flashes will switch to E-TTL automatically and group control is reduced to 3 groups.



**Group Firing<sup>1</sup>** – Set different flash modes for each group (A, B, C, D, and E) and perform multiple wireless flash shooting. Two or more units can be set as the same group.



**Linked shooting function** – Releases the camera that has the Speedlite 600EX-RT (or Speedlite Transmitter ST-E3-RT) set as the master unit and release up to 15 cameras with the speedlite or transmitter set as slave units.

## E-TTL/E-TTL II Wireless Autoflash Control

Up to three groups (for main, fill and background) of slave units can be set up for comprehensive control of flash lighting. The Speedlite slave units can be assigned to group A, B, or C, with output ratio between groups A and B adjustable from 8:1 to 1:1 or 1:1 to 1:8. The output of the group C can be adjusted through flash exposure compensation. Superb lighting is simple thanks to the E-TTL/E-TTL II autoflash system which controls the total flash output to ensure consistently correct exposure. The EOS 7D, EOS 60D and EOS Rebel T3i, with their Integrated Speedlite Transmitters, can control and trigger external Speedlites wirelessly through their built-in pop up flash. The EOS 60D can wirelessly control the ratio between A and B groups, along with the built-in unit's own output, while the EOS 7D can control A, B, and C groups. Both cameras also feature a modeling flash feature for previewing the output of your external Speedlites, available by pressing the depth of field button. Even with multiple Speedlites, the modeling flash fires according to the ratios you have set. E-TTL/E-TTL II wireless autoflash also supports most other Speedlite features, such as FE Lock, FP Flash, Flash Exposure Bracketing/Compensation, and Stroboscopic Flash. Finally, for macro shooting, the Macro Ring Lite MR-14EX and Macro Twin Lite MT-24EX can be used as master units as well.

# Amazing Flash System

Canon offers a full range of Speedlite flash units compatible with EOS System cameras for a wide variety of applications and photographers' needs. They range from simple, economical flashes to high-power, highly advanced Speedlites for professional use.

## Speedlite



### Speedlite 600EX-RT

- Wireless multiple flash system uses radio wave communication for enhanced control of up to five groups and 15 individual flash units.
- Zoom flash head covers range of 20–200mm; maximum Guide Number (197 ft./60m at ISO 100).
- Improved flash output consistency.
- Improved flash head durability, and exceptional dust and weather resistance.
- AF Assist Beam compatible with Canon's 61-Point High Density Reticular AF.\*\*
- Dot matrix LCD panel and backlit button provide easy visibility.
- Fully swiveling head, 180° in either direction.

### Speedlite 580EX II

- Auto conversion of flash coverage with compatible EOS DSLR cameras.\*
- Superb evenness of exposure, center to corner of frame.
- Higher max. Guide No. at 105mm setting (190 ft./58m at ISO 100).
- White Balance info communicated instantly to compatible EOS DSLR cameras.\*
- Full swivel, 180° in either direction.
- AF-assist beam compatible with all AF points on every EOS SLR.
- Dust- and water-resistance to match the EOS-1D X, 1D Mark IV, and 1Ds Mark III.

### Speedlite 430EX II

- Superb build quality, including a metal foot for added strength.
- Approx. 20% faster recycle time, compared to previous 430EX.
- One-touch quick-lock mechanism for easy attaching/detaching flash from camera.
- Full flash control possible on camera menu, with compatible EOS DSLR cameras.
- Virtually silent flash recycle.
- Full 180° swivel in either direction.
- Zoom flash head covers range of 24–105mm; max. Guide No. 141 ft./43m at ISO 100.



### Speedlite 320EX

- Built-in LED illuminates nearby subjects in dim light – especially useful for video.
- Versatile vertical and horizontal bounce capability.
- Flash release function allows wireless shutter release from the flash with a 2-second delay for flash repositioning.
- Wireless Slave function supports three groups and four channels.
- Two flash coverage settings, selectable by extending or retracting flash head.
- Max. Guide No. at Tele setting: 105 ft./32m at ISO 100.
- Fast recycle time of approximately 2.0 seconds.



### Speedlite 270EX II

- Ultra-compact, ultra-lightweight flash unit.
- Vertical bounce capability up to 90 degrees.
- Flash release function allows wireless shutter release from the flash with a 2-second delay for flash repositioning.
- Slave function allows the flash to be triggered wirelessly.
- Flash coverage can be switched between Normal and Tele settings.
- Max. Guide No. at Tele setting: 89 ft./27m at ISO 100.



### Speedlite 90EX

- Ultra-compact, ultra-lightweight flash unit, perfect for the EOS M Digital Camera.
- Easy and intuitive operation.
- Wireless master function (optical) allows multiple flash units to be controlled for creative lighting effects.
- Supports 24mm wide-angle lenses (35mm equivalent).
- Max. Guide No. 30 ft./9m at ISO 100.

\* Feature compatible with EOS-1D X, 1Ds Mark III, 1D Mark IV, 1D Mark III, 1Ds Mark II, 1D Mark II n, 1D Mark II, 5D Mark III, 5D Mark II, 5D, 7D, 60D, 50D, 40D, 30D, 20D, 20Da, Rebel T4i, Rebel T3i, Rebel T2i, Rebel T3, Rebel T1i, Rebel XSi, Rebel XS, Digital Rebel XTi and Digital Rebel XT only (Some earlier models require firmware upgrade). \*\* Feature compatible only with EOS-1D X and EOS 5D Mark III.

Macro Lites



Macro Twin Lite MT-24EX

- Attaches to all Canon EF macro lenses (EF 180mm f/3.5L requires Macro Lite Adapter 72C).
- Twin flash heads can be rotated over 80° angle around lens in 5 degree increments.
- 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 FEB.

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/E-TTL II Wireless Autoflash in conjunction with one or more compatible EX Speedlites.
- Incandescent focusing lamps and two forms of modeling flash permit preview of lighting effects.



Speedlite Transmitter



Speedlite Transmitter ST-E3-RT

- Uses two-way radio wave communication for enhanced communication among master and slave units.
- Compatible with Speedlite 600EX-RT
- Achieves a transmission distance of up to 30m/98.4 ft., all at a 360° angle.
- Up to 5 groups, or 15 individual flashes can be controlled via 1 transmitter.
- Supports E-TTL II flash, manual flash, strobe and external flash metering.
- Dot matrix LCD panel displays information simultaneously and backlit control panel means easy operation.



Speedlite Transmitter ST-E2

- Dedicated transmitter to control unlimited number of slave flashes.
- Compatible with Speedlites 600EX-RT, 580EX II, 430EX II, 320EX and 270EX II (also 580EX, 430EX and 420EX).
- Controls slave units up to 33 ft. outdoors and 49.5 ft. indoors.

Speedlite to the Max

Whether adding a battery pack, connecting two or more Speedlite flashes, or creating a complex wireless lighting solution, Canon has flash accessories for almost any photographic situation that are perfect complements to your Speedlite.



EF-S 60mm f/2.8 Macro USM •f/3.2 •1/80

**Speedlite Release Cable SR-N3**  
Provides remote release and linked shooting functions by transmitting a wireless release signal to the camera itself. It's compatible with cameras that have E-TTL/ETTL II autoflash; as well as an N3-type remote control terminal.

**Compact Battery Pack CP-E4**  
This dedicated external power pack is dust/water-resistant and makes the flash system dust/water-resistant. The power pack's performance is the same as the Compact Battery Pack CP-E3.

**Ni-Cd Pack TP**  
Additional rechargeable Ni-Cd Pack TP batteries are available separately. They can also be freely interchanged with Battery Magazine TP. The charger TP recharges a Ni-Cd Pack TP in approximately 15 hours.

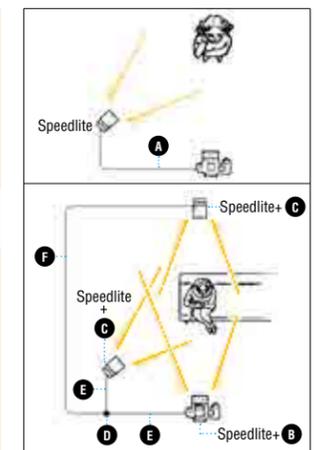
**Battery Magazine TP**  
This magazine holds six commonly available C-size alkaline batteries. Included with Transistor Pack E, it is available separately for instant battery changes during shooting. Can be used in place of the Ni-Cd Pack TP. Connecting Cord ET is also available separately.

**Color Filter Set SCF-E1**  
Compatible with the EOS Speedlite 600EX-RT, the Color Filter Set SCF-E1 includes a light orange filter and a dark orange filter. These filters allow the user to create various lighting effects or to prevent an unnatural white balance when shooting indoors.

**Color Filter Holder SCH-E1**  
Compatible with the Speedlite 600EX-RT, Color Filter Holder SCH-E1 is a detachable holder for gelatin filters. It is particularly useful for matching ambient color temperature with that of the flash head for proper compensation.

Other Speedlite Accessories

	A	B	C	D	E	F
<b>Camera Compatibility</b>	All EOS SLR cameras (Except 630 & RT)		All 35mm and APS SLR cameras (Not compatible with digital SLR cameras or PowerShot digital cameras)			
<b>Description</b>	Dust- and water-resistant 2 ft. (0.6m) TTL cord; retains all on-camera flash functions. Same quick connect as 580EX II.	Placed in the EOS camera's accessory shoe, this adapter controls up to 4 off-camera Speedlites.	For off-camera applications of Speedlite flash units, this adapter will accept one Speedlite and a connecting cord to the camera.	This connector accepts up to 4 connecting cords.	This 2 ft./60cm coiled cord has connections on both ends for TTL Distributor, OA-2, and/or Hot Shoe Adapter 3.	This 9.8 ft./3m straight cord has connections on both ends for TTL Distributor, OA-2, and/or Hot Shoe Adapter 3.



\* These accessories provide TTL or manual flash control, but are not compatible with E-TTL or E-TTL II; no automatic flash with EOS digital SLR cameras.

	Speedlite 600EX-RT	Speedlite 580EX II	Speedlite 430EX II	Speedlite 320EX II	Speedlite 270EX II	Speedlite 220EX II†	Speedlite 90EX	Macro Twin Lite MT-24EX	Macro Ring Lite MR-14EX
<b>Dimensions (W x H x D)</b>	3.1 x 5.6 x 4.9 in. 80 x 143 x 125mm	3.0 x 5.4 x 4.6 in. 76 x 137 x 117mm	2.8 x 4.8 x 4.0 in. 72 x 122 x 101mm	2.8 x 4.5 x 3.1 in. 70 x 115 x 78.4mm	2.6 x 2.6 x 3.0 in. 65.8 x 65.2 x 77mm	2.7 x 3.62 x 2.42 in. 65 x 92 x 61.3mm	1.7 x 2.0 x 2.6 in. 44.2 x 52 x 65mm	Control Unit: 2.9 x 4.9 x 3.8 in. 74 x 125.9 x 97.4mm Flash Unit: 9.3 x 3.5 x 1.9 in. 235 x 90.4 x 49mm	Control Unit: 2.9 x 4.9 x 3.8 in. 74 x 125.9 x 97.4mm Flash Unit: 4.44 x 4.96 x 1.02 in. 112.8 x 126 x 25.6mm
<b>Weight (without batteries)</b>	15.0 oz./425g	13.2 oz./375g	11.3 oz./330g	9.7 oz./275g	5.5 oz./155g	5.6 oz./160g	1.8 oz./50g	20.64 oz./585g (combined flash & control units)	15.1 oz./428g (combined flash & control units)
<b>Compatibility</b>	All EOS cameras	All EOS cameras	All EOS cameras	Type-A EOS Cameras	Type-A EOS cameras	All EOS cameras	EOS M	All EOS cameras	All EOS cameras
<b>Max. Guide Number (ISO 100)</b>	196.9 ft./60m	190 ft./58m	141 ft./43m	105 ft./32m	89 ft./27m	72.2 ft./22m	30 ft./9m	79 ft./24m	45.9 ft./14m
<b>Power Source</b>	AA (Alkaline, re-chargeable NiCd, Lithium-ion, Ni-MH) batteries (x4); Compact Battery Pack CP-E4; Transistor Pack E	AA (Alkaline, re-chargeable NiCd, Lithium-ion, Ni-MH) batteries (x4); Compact Battery Pack CP-E4; Transistor Pack E	AA (Alkaline, re-chargeable NiCd, Lithium-ion, Ni-MH) batteries (x4)	Four AA-size batteries - alkaline, lithium, or re-chargeable Ni-MH usable	Two AA-size/ LR6 Alkaline batteries	AA (Alkaline, re-chargeable NiCd, Lithium-ion, Ni-MH) batteries (x4)	Two AAA-size (Alkaline, re-chargeable Ni-MH or Lithium-ion) batteries	AA (Alkaline, re-chargeable NiCd, Lithium-ion, Ni-MH) batteries (x4); Compact Battery Pack CP-E3; Transistor Pack E	AA (Alkaline, re-chargeable NiCd, Lithium-ion, Ni-MH) batteries (x4); Compact Battery Pack CP-E3; Transistor Pack E

Compatibility Chart

		600EX-RT	580EX II	430EX II	320EX	270EX II	MR-14EX	MT-24EX	Weight
<b>Compact Battery Pack CP-E4 (w / Alkaline Batteries)</b>	Recycling Time (Sec.)	0.1~2.0	0.1~2.0	—	—	—	0.1~3	0.1~3	5.5 oz./155g
	Shooting Capacity (No. of Flashes)	TBA	350~2,450	—	—	—	450~2,800	450~2,800	
<b>Compact Battery Pack CP-E3†</b>		●	●	—	—	—	●	●	5.5 oz./155g

† Discontinued product, for reference only.

# Batteries

Designed to help you get the most out of your EOS cameras, Canon has designed a number of different accessories, including power supplies and grips to help extend battery life. Other specialized accessories include the Data Verification kit, CompactFlash (CF) cards, cases and much more.



EOS 5D Mark III with Battery Grip BG-E11

## Battery Grips

	<b>Battery Grip BG-E13†</b>	<b>Battery Grip BG-E11†</b>	<b>Battery Grip BG-E9†</b>	<b>Battery Grip BG-E8†</b>
Weight	10.2 oz./290g (without batteries)	10.9 oz./310g (without batteries)	10.4 oz./295g (without batteries)	8.1 oz./230g (without batteries)
Compatibility	EOS 6D	EOS 5D Mark III	EOS 60D	EOS Rebel T4i, T3i, T2i
Functions	Shutter-Release button, AE/FE Lock button, Main Dial, AF-point-select button, Vertical Grip Operation Switch	Shutter-Release button, AE/FE Lock button, Main Dial, Multi-controller, AF-point-select button, Multi-function button, Vertical Grip Operation Switch	AE/FE Lock/ Index/ Reduce button, Main Dial, AF point selection/ Magnify button, Aperture/exposure compensation button, Attach/ Detach button, Vertical-grip operation switch	AE/FE Lock/ Index/ Reduce button, Main Dial, AF point selection/ Magnify button, Aperture/exposure compensation button, Attach/ Detach button, Vertical-grip operation switch
Power Source	LP-E6 (x2); AA-size battery (x6); or AC Adaptor ACK-E6	LP-E6 (x2); AA-size battery (x6); or AC Adaptor ACK-E6	LP-E6 (x2); AA-size battery (x6), AC Adapter ACK-E6	LP-E8 (x2); AA-size battery (x6), AC Adapter ACK-E8

	<b>Battery Grip BG-E7†</b>	<b>Battery Grip BG-E6†</b>	<b>Battery Grip BG-E5†</b>	<b>Battery Grip BG-E2†</b>
Weight	12.0 oz./340g (without batteries)	11.1 oz./315g (without batteries)	8.1 oz./230g (without batteries)	11.5 oz./325g (without batteries)
Compatibility	EOS 7D	EOS 5D Mark II	EOS Rebel T1i, XSi, XS	EOS 50D, 40D
Functions	Shutter-Release button, AE/FE Lock/ Index/Reduce button, Main Dial, AF-frame-select button, Aperture/ Exposure compensation button	Shutter-Release button, AE/FE Lock/ Index/Reduce button, Main Dial, AF-frame-select button, Aperture/ Exposure compensation button	Shutter-Release button, AE/FE Lock/ Index/Reduce button, Main Dial, AF-frame-select button, Aperture/ Exposure compensation button	Shutter-Release button, AE/FE Lock button, Main Dial, AF frame-select button
Power Source	LP-E6 (x2); AA-size battery (x6); or AC Adapter ACK-E6	LP-E6 (x2); AA-size battery (x6); or AC Adapter ACK-E6	LP-E5 (x2); AA-size battery (x6); or AC Adapter ACK-E5	BP-511A/511/512/ 514 (x1 or x2), AA-size batteries (x6), or AC Adapter Kit ACK-E2, or Compact Power Adapter CA-PS400 plus DC-Coupler DR-400

† Accepts optional Hand Strap E1.

## Power Drive Booster/Battery Pack Chart

	<b>Power Drive Booster PB-E2</b>	<b>Battery Pack BP-E1*</b>
WEIGHT (WITHOUT BATTERIES)	17.1 oz./484g	9.8 oz./280g
Compatibility	EOS-1v HS, 1v, 1N, 1, 3	EOS-1v HS, 1v, 1N, 1, 3
Functions	Shutter Release button, AE Lock button, FE Lock/Multi-spot Metering button, Main Dial, focusing point selector	—
Power Source	Ni-MH Battery Pack NP-E2 or Battery Magazine BM-E2 and 8 AA-size Alkaline, Lithium-ion, Ni-MH or Ni-Cd batteries	2CR5 Lithium-ion battery (x1), AA-size (Alkaline, rechargeable Ni-Cd, Ni-MH) batteries (x4)

\* Not compatible with AA-size Lithium-ion batteries.

## Power Drive Booster PB-E2 Accessories

	<b>Battery Magazine BM-E2</b>	<b>Ni-MH Pack NP-E2</b>	<b>Ni-MH NC-E2</b>
WEIGHT	1.8 oz./50g (without batteries)	10.9 oz./320g	12.5 oz./354g
Description	Magazine holds eight AA-size alkaline, Lithium-ion, Ni-Cd or Ni-MH batteries. (Provided with the PB-E2)	Powerful rechargeable battery pack dedicated to the PB-E2. The rated voltage is 1.2V. It can be recharged over 500 times. When fully charged, it has enough power for 70 rolls of 36-exposure film at 68°F/20°C.	Charger dedicated to the NP-E3 Battery Pack and the NP-E2 Pack. Two packs can be attached at one time. The discharge feature (taking up to 8.5 hrs) cancels the pack's memory effect. It runs on 100-240V AC, ideal for international travel.

## Batteries, Chargers and Adapters

	<b>Battery Pack LP-E12</b>	<b>Battery Pack LP-E10</b>	<b>Battery Pack LP-E8</b>	<b>Battery Pack LP-E6</b>	<b>Battery Pack LP-E5</b>	<b>Battery Pack LP-E4N</b>	<b>Battery Pack LP-E4</b>
Weight	1.2 oz./35g	1.6 oz./45g	1.8 oz. / 52g	2.8 oz./80g	1.8 oz./50g	6.5 oz./185g	6.3 oz./180g
Compatibility	EOS M	EOS Rebel T3	EOS Rebel T4i, T3i, T2i	EOS 5D Mark III, 6D, 5D Mark II, 7D, 60D	EOS Rebel T1i, XSi, XS	EOS-1D X, 1D Mark IV, 1Ds Mark III, 1D Mark III	EOS-1D X, 1D Mark IV, 1Ds Mark III, 1D Mark III
Description	Lithium-ion battery with a rated voltage of 7.2V and a rated capacity of 875 mAh, for use exclusively with the EOS M. Uses the LC-E12 charger.	Lithium-ion battery with a rated voltage of 7.4V and a rated capacity of 860mAh, for use exclusively with the EOS Rebel T3. Uses the LC-E10 or LC-E10E charger.	It is a large-capacity lithium-ion battery (7.2 V/1120 mAh) that provides slightly more capacity than the LP-E5. Uses the LC-E8 charger.	Lithium-ion battery pack for the EOS 5D Mark III, 6D, 5D Mark II, 7D, 60D. At 1800 mAh, it has 1.3x the capacity of the EOS 5D's battery.	Lithium-ion battery pack, exclusively for the EOS Rebel T1i, XSi and XS. At 1080 mAh, it has 1.5x the capacity of the EOS Rebel Digital XT's battery.	Designed to be used with the EOS-1D X, the LP-E4N is a high-capacity (2450 mAh) lithium-ion battery pack – offering approximately 10% larger capacity than the LP-E4. Exact battery info can be viewed on the camera's menu.	High-capacity (2300mAh) lithium-ion battery pack is 40% less volume and 46% lighter than the NP-E3. Exact Battery Info can be viewed on camera's menu.

	<b>Battery Pack NP-E3</b>	<b>Battery Pack BP-511A/ BP-512/ BP-514</b>	<b>Battery Charger LC-E12</b>	<b>Battery Charger LC-E10</b>	<b>Battery Charger LC-E8</b>	<b>Battery Charger LC-E6</b>	<b>Battery Charger LC-E5</b>
Weight	11.8 oz./325g	2.5 oz./70g	2.9 oz./81g	3.0 oz./85g (without cord)	2.9 oz./82g	4.6 oz./130g (without cord)	2.8 oz./80g
Compatibility	EOS-1Ds Mark II, 1Ds, 1D Mark II N, 1D Mark II, 1D	EOS 5D, 50D, 40D, 30D, 20D, 20Da, 10D, D60, D30, Digital Rebel	EOS M	EOS Rebel T4i, T3i, T2i	EOS Rebel T4i, T3i, T2i	EOS 5D Mark III, 6D, 5D Mark II, 7D, 60D	EOS Rebel T1i, XSi, XS
Description	Ni-MH battery with a rated voltage of 1.2V, a rated capacity of 1,650 mAh. Water and dust resistance. Uses the NC-E2 charger (recharges in about 120 minutes).	High-capacity lithium-ion battery. BP-511A has a different contour and 26% more storage capacity than BP-512. Note: EOS D30, D60 and Battery Grip BG-ED3 cannot use BP-512.	Dedicated charger for LP-E12 battery pack is microprocessor-controlled and has built-in foldaway AC plug. Universal 100–240V AC input. Charging time is approximately 2 hours.	Dedicated charger for LP-E10 battery pack is microprocessor-controlled and has built-in foldaway AC plug. Universal 100–240V AC input. Charging time is approximately 2 hours.	Plug-in type battery charger with charge control system (by microcomputer). Charging time is approximately 2 hours.	It charges an LP-E6 battery in 2.5 hours, and can be plugged-in nearly anywhere in the world (100–240V).	Charger that's included with EOS Rebel T1i, XSi and XS. It charges an LP-E5 battery in 2 hours, and can be plugged-in nearly anywhere in the world (100–240V).

	<b>Battery Charger LC-E4N</b>	<b>Battery Charger LC-E4</b>	<b>Battery Charger CG-580</b>	<b>Battery Charger CB-5L</b>	<b>DC Coupler DR-400</b>	<b>AC Adapter Kit ACK-E10</b>	<b>AC Adapter Kit ACK-E8</b>
Weight	12.3 oz./350g	15.2 oz./431g	5.6 oz./160g	3.5 oz./110g (without cord)	3.9 oz./123g (without cord)	0.6 oz./17.5g (DC Coupler) 6.5 oz./185g (AC Adapter)	0.7 oz./20g
Compatibility	EOS-1D X, 1D Mark IV, 1Ds Mark III, 1D Mark III	EOS-1D X, 1D Mark IV, 1Ds Mark III, 1D Mark III	EOS 5D, 50D, 40D, 30D, 20D, 20Da, 10D, D60, D30, Digital Rebel	EOS 5D, 50D, 40D, 30D, 20D, 20Da, 10D, D60, D30, Digital Rebel	EOS 5D, 50D, 40D, 30D, 20D, 20Da, 10D, D60, D30, Digital Rebel	EOS Rebel T3	EOS Rebel T4i, T3i, T2i, BG-E8
Description	Two battery packs can be attached. It takes about 130 minutes to charge one LP-E4N battery pack (120 minutes for LP-E4). It plugs directly into AC outlets, and with optional CB-570 cable, into a car cigarette lighter.	Two battery packs can be attached. It takes about 120 min. to recharge one battery pack. It plugs directly into AC outlets, and with optional CB-570 cable, into a car cigarette lighter.	Compact and light battery charger for BP-511A/ BP-511/ BP-512/BP-514 as well as BP-522 and BP-533 for video camcorders.	Compact and light battery charger for BP-511A/ BP-511/ BP-512/BP-514 as well as BP-522 and BP-533 for video camcorders.	Allows the camera to draw power directly from an AC power source when connected to the CA-PS400 Power Adapter or AC Adapter ACK-E2.	Enables the EOS Rebel T3 to be operated from an AC power source. Kit consists of universal 100–240V AC adapter (with power cord) and DR-E10 DC coupler.	Comes with AC Adapter, DC Coupler and Power Cord. Assuring constant power throughout a shoot, it's perfect companion to the EOS Rebel T3i, EOS Rebel T2i and BG-E8.

	<b>AC Adapter Kit ACK-E6</b>	<b>AC Adapter Kit ACK-E5</b>	<b>AC Adapter Kit ACK-E4</b>	<b>Compact Power Adapter CA-PS400</b>	<b>DC Coupler Kit DCK-E1</b>	<b>Car Battery Charger CBC-E6</b>	<b>Car Battery Charger CBC-E5</b>
Weight	3.9 oz./110g (DC Coupler) 6.2 oz./175g (AC Adapter)	15.0 oz./425g	14.1 oz./399g	10.1 oz./287g (excluding AC cord)	5.3 oz./150g (DC Coupler) 7.2 oz./205g (AC Adapter)	3.7 oz./105g	4.9 oz./140g
Compatibility	EOS 5D Mark III, 6D 5D Mark II, 7D, 60D	EOS Rebel T1i, XSi, XS	EOS-1D Mark IV, 1Ds Mark III, 1D Mark III	EOS 5D, 50D, 40D, 30D, 20D, 20Da, 10D, D60, D30, Digital Rebel	EOS-1Ds Mark II, 1Ds, 1D Mark II N, 1D Mark II, 1D	EOS 5D Mark III, 6D EOS 5D Mark II, 7D, 60D	EOS Rebel T1i, XSi, XS
Description	Allows the camera to connect the DC cord to the AC adapter terminal. Kit includes the AC adapter, power cord, and DC coupler. It prevents accidental disconnection.	AC adapter kit is a perfect companion for the EOS Rebel XSi. With constant power, there's no fear of running out of power in the middle of a shoot.	Allows the camera to connect the DC cord to the AC adapter terminal. Kit includes the AC adapter, power cord, and DC coupler. It prevents accidental disconnection.	It charges two BP-511A/ BP-511/ BP-512/BP-514 battery packs. When connected to the DR-400, it allows the camera to draw power directly from an AC power source.	Allows the camera to draw power directly from an AC power source when connected to the DC Coupler and AC Adapter PA-V16.	A car battery charger, dedicated to the EOS 5D Mark II and its LP-E6 battery pack plugged into a car's cigarette lighter, it charges a battery pack in about 2.5 hours.	A car battery charger, dedicated to the EOS Rebel XSi and its LP-E5 battery pack plugged into a car's cigarette lighter, it charges a battery pack in about 2 hours.

## Wireless File Transmitters and GPS Receivers

Canon's Wireless File Transmitters help enable fast, wireless image transfer from EOS cameras directly to a computer. Canon GPS receivers record location, including latitude, longitude and altitude, include a compass, and can track the trajectory of the photographer's movements.



EOS 7D with Wireless File Transmitter WFT-E5A

### Wireless File Transmitter

			
<b>Wireless File Transmitter WFT-E7A</b>		<b>Wireless File Transmitter WFT-E6A</b>	<b>Wireless File Transmitter WFT-E5A</b>
<b>Compatibility</b>	EOS 5D Mark III	EOS-1D X	EOS 7D
<b>Description</b>	Designed for the EOS 5D Mark III. It transfers images from cameras directly to a computer via wireless local area networks (LAN), and offers a number of enhanced features to improve efficiency for studios and media professionals including: wireless support for IEEE 802.11 a/b/g and the latest standard 802.11n, which deliver blazing communication speed, camera clock synchronization, linked shooting function, Bluetooth support, and auto re-send of images that were not sent during a sending error.	Canon's Wireless File Transmitter WFT-E6A is designed for the EOS-1D X. It transfers images from cameras directly to a computer via wireless local area networks (LAN), and offers a number of enhanced features to improve efficiency for studios and media professionals including: wireless support for IEEE 802.11 a/b/g and the latest standard 802.11n, which deliver blazing communication speed, camera clock synchronization, linked shooting function, Bluetooth support, and auto re-send of images that were not sent during a sending error.	This wireless transmitter is dedicated to the EOS 7D. The transmitter is compatible with Wi-Fi Protected Setup to connect easily to a wireless LAN access point and automatically leads to the security setting for secure image transfer. Images can be stored in selected folders and the entire folder can be transferred. Added features include IEEE 802.11a/b/g compatibility, WPS compatibility, WFT server EOS 7D, camera linking function and Bluetooth function. It allows wireless transmission (802.11a, b or g) to Mac or Windows computers up to 492 ft.

			
<b>Wireless File Transmitter WFT-E4 II A</b>	<b>Wireless File Transmitter WFT-E4A</b>	<b>Wireless File Transmitter WFT-E3A</b>	<b>Wireless File Transmitter WFT-E2A</b>
<b>Compatibility</b>	EOS 5D Mark II	EOS 5D Mark II	EOS 50D, 40D
<b>Description</b>	This wireless transmitter is dedicated to the EOS-5D Mark II with firmware upgrade. The transmitter is compatible with Wi-Fi Protected Setup to connect to a wireless LAN access point and automatically leads to the security setting for secure image transfer. Images can be stored in selected folders and the entire folder can be transferred. Added functions include IEEE 802.11 a/b/g compatibility, WPS compatibility, camera linking function, Bluetooth function, media server function and WFT server Remote Live View. It allows wireless transmission (802.11a, b or g) to Mac or Windows computers up to 492 ft.	This wireless transmitter is dedicated to the EOS 5D Mark II. The transmitter is compatible with Wi-Fi Protected Setup to connect easily to a wireless LAN access point and it automatically leads to the security setting for secure image transfer. Sending a batch of photos wirelessly is easy with the WFT-E4A. Images can be stored in selected folders and the entire folder can be transferred at once. It retains the same features as the WFT-E3A including great handling for vertical shooting and wireless transmission (802.11b or g) to Mac or Windows computers up to 492 ft. (150m)* away.	This wireless transmitter is dedicated to the EOS 50D and 40D camera. Completely integrated design for outstanding handling; includes vertical controls. Wireless transmission (802.11b or g) to Mac or Windows computers. Three separate wireless methods, including wireless remote control of camera from computer. Transmits up to 492 ft. (150m)*, depending on environment and computer set-up; wired Ethernet connection up to 1,000 ft. (330m). Its USB port allows an external hard drive to be directly connected to the camera.
<b>Compatibility</b>	EOS 5D Mark II	EOS 5D Mark II	EOS 50D, 40D
<b>Description</b>	This wireless transmitter is dedicated to the EOS-5D Mark II with firmware upgrade. The transmitter is compatible with Wi-Fi Protected Setup to connect to a wireless LAN access point and automatically leads to the security setting for secure image transfer. Images can be stored in selected folders and the entire folder can be transferred. Added functions include IEEE 802.11 a/b/g compatibility, WPS compatibility, camera linking function, Bluetooth function, media server function and WFT server Remote Live View. It allows wireless transmission (802.11a, b or g) to Mac or Windows computers up to 492 ft.	This wireless transmitter is dedicated to the EOS 5D Mark II. The transmitter is compatible with Wi-Fi Protected Setup to connect easily to a wireless LAN access point and it automatically leads to the security setting for secure image transfer. Sending a batch of photos wirelessly is easy with the WFT-E4A. Images can be stored in selected folders and the entire folder can be transferred at once. It retains the same features as the WFT-E3A including great handling for vertical shooting and wireless transmission (802.11b or g) to Mac or Windows computers up to 492 ft. (150m)* away.	This wireless transmitter is dedicated to the EOS 50D and 40D camera. Completely integrated design for outstanding handling; includes vertical controls. Wireless transmission (802.11b or g) to Mac or Windows computers. Three separate wireless methods, including wireless remote control of camera from computer. Transmits up to 492 ft. (150m)*, depending on environment and computer set-up; wired Ethernet connection up to 1,000 ft. (330m). Its USB port allows an external hard drive to be directly connected to the camera.

### GPS Accessories

	
<b>GPS Receiver GP-E2***</b>	<b>GPS Receiver GP-E1***</b>
<b>Compatibility</b>	EOS-1D X, 5D Mark III**, 6D, 7D**, EOS Rebel T4i, EOS M
<b>Description</b>	The GP-E2 allows photographers to geotag their photos. Its compact, lightweight design smoothly integrates with the camera's hot shoe or USB terminal without the need for additional power. The GP-E2 automatically adds location information as EXIF data while shooting (latitude, longitude, altitude, direction, universal coordinated time (UTC)). An on-board electronic compass supports shooting even when held vertically, and the orientation can be displayed on a map with bundled software. The camera's clock can be easily set by the GP-E2's atomic clock. It can also be used as a stand-alone GPS logger.
<b>Compatibility</b>	EOS-1D X
<b>Description</b>	To be used with the EOS-1D X, the GP-E1 is Canon's first GPS Receiver. Its compact, lightweight design smoothly integrates with the camera's extension system terminal, allowing the hot shoe to remain accessible without the need for additional power. The GP-E1 automatically adds location information as EXIF data while shooting (latitude, longitude, altitude, direction, universal coordinated time (UTC)). An on-board electronic compass supports shooting even when held vertically, and the orientation can be displayed on a map with bundled software. The EOS-1D X's clock can be easily set by the GP-E1's atomic clock.

\* 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 EOS 5D Mark III and EOS 7D require a firmware upgrade (which is now available) to be compatible with the GPS Receiver GP-E2.  
 \*\*\* In certain countries and regions, the use of GPS may be restricted. Therefore, be sure to use GPS in accordance with the laws and regulations of your country or region. Be particularly careful when traveling outside your home country. As a signal is received from GPS satellites, take sufficient measures when using in locations where the use of electronics is regulated.  
**Note:** When the EOS 7D is used with the GP-E2 the following restrictions will apply: a) geotagging function will not work for movies while recording; b) geotagging features will not work for movies when using the Map Utility; c) electronic compass information and automatic time setting is not available; d) transmission via the hot shoe is not possible.

## Remote Control & Accessories

Canon accessories are the perfect choice to help enhance your EOS System's performance. Whether through recording data or controlling your camera remotely, Canon's own accessories are designed to complement your EOS camera.



EF 100mm f/2.8L Macro IS USM • f/5.6 • 1/80 sec.

### Remote Controllers and Switches

			
<b>Wireless Controller LC-5</b>	<b>Remote Switch RS-80N3</b>	<b>Timer Remote Controller TC-80N3</b>	<b>Remote Switch 60T3</b>
<b>Compatibility</b>	All EOS cameras except EOS 60D, EOS M and Digital Rebel series, 1v Hs, 1v, 3	All EOS cameras except EOS 60D, EOS M and Digital Rebel series, 1v Hs, 1v, 3	All EOS cameras except EOS 60D, EOS M and Digital Rebel series, 1v Hs, 1v, 3
<b>Description</b>	• An extended-range Wireless Controller system designed for EOS cameras with N3 remote control sockets. • Provides remote shutter release capability. • Max. transmitter to receiver distance of 300 ft./91.5m	• Remote switch to prevent camera shake for super-telephoto or macro shots and bulb exposures. • Works like a Shutter button, enabling halfway or complete pressing. • Shutter release lock. • Connects to N3-type socket. • Cord length: 2.6 ft./80cm.	• Remote switch with self-timer, interval timer, long-exposure timer, and exposure-count setting feature. • Timer set from 1 sec. to 99 hrs., 59 min., 59 sec. • Easy operations with new dial. • Illuminated LCD panel. • N3-type connector. • Cord length: 2.6 ft./80cm.

			
<b>Remote Switch RS-60E3</b>	<b>Wireless Remote Controller RC-1</b>	<b>Wireless Remote Controller RC-6</b>	<b>Wireless Remote Controller RC-5</b>
<b>Compatibility</b>	EOS 60D, Rebel T4i, T3i, T3, T1i, XSi, Digital Rebel XTi/XT, Digital Rebel, ELAN 7 series, ELAN II/IIe, Rebel T2, Ti, 2000, G, X, XS, XSN, IX	EOS 5D Mark II, 7D, 60D, Rebel T1i, XSi, Digital Rebel XTi/XT, Digital Rebel, ELAN 7 series, II/IIe, ELAN, Rebel T2 Date, Ti Date, K2 Date, 10S	EOS 5D Mark II, 7D, 60D, Rebel T1i, Rebel XSi, Digital Rebel XTi/XT, Digital Rebel, ELAN 7 series, II/IIe, ELAN, Rebel T2 Date, Ti Date, K2 Date, IX, 10S
<b>Description</b>	• Compact remote switch replicating all the functions of a shutter release button. • Cord length: 2 ft./60cm.	• Miniature infrared transmitter. • Set for either instant shutter release or 2-sec. delay. • Activate mirror lock and bulb shutter functions. • Operates as far as 16.4 ft./5m.	• Compact design. • Operates approximately 16.4 ft/5 m from the camera. • Set for either instant shutter release or 2-sec. delay. • Activate mirror lock and bulb shutter functions.

### Remote Control Accessories

			
<b>Remote Switch Adapter RA-N3</b>	<b>Remote Switch Adapter T3</b>	<b>Extension Cord ET-1000N3</b>	<b>Extension Cord 1000T3</b>
<b>Compatibility</b>	All EOS DSLR cameras except EOS 5D Mark II, 7D, 60D and Digital Rebel series, 1v Hs, 1v, 3	N3-compatible cameras**, EOS 1n RS, 1n, 1, A2/A2e, RT*, 630*, 620*, 650*	All EOS DSLR cameras except EOS 5D Mark II, 7D, 60D, 50D and Digital Rebel series, 1v Hs, 1v, 3
<b>Description</b>	• Enables old-model, T3 terminal-equipped accessories to be connected to cameras with the N3-type socket.	• Enables use of remote control devices with standard 2-pin subminiature jacks with T3-compatible EOS cameras.	• Connects compatible EOS cameras with Timer Remote Controller TC-80N3 or Remote Switch RS-80N3. • Cord length: 33 ft./10m.
<b>Compatibility</b>	All EOS DSLR cameras except EOS 5D Mark II, 7D, 60D and Digital Rebel series, 1v Hs, 1v, 3	N3-compatible cameras**, EOS 1n RS, 1n, 1, A2/A2e, RT*, 630*, 620*, 650*	All EOS DSLR cameras except EOS 5D Mark II, 7D, 60D, 50D and Digital Rebel series, 1v Hs, 1v, 3
<b>Description</b>	• Enables old-model, T3 terminal-equipped accessories to be connected to cameras with the N3-type socket.	• Enables use of remote control devices with standard 2-pin subminiature jacks with T3-compatible EOS cameras.	• Used with any other T3-compatible accessories for extension. • Cord length: 33 ft./10m.

\* EOS RT, 650, 630 and 620 require Grip GR20 with built-in T3 remote socket.  
 \*\* T3 accessories require Remote Switch Adapter RA-N3 with N3-series cameras.

# Viewfinder Accessories

For more customization, many of Canon's EOS cameras are compatible with a vast choice of eyecups, diopter lenses and more for greater versatility in a number of shooting situations.



EF 180mm f/3.5L Macro USM • f/4.5 • 1/200 sec.

## Eyecups, Rubber Frames and Diopter Adjustment Lenses

	<b>Anti-Fog Eyepiece Ec</b>	<b>Anti-Fog Eyepiece Ed</b>	<b>Diopter Adjustment Lens E</b>	<b>Diopter Adjustment Lens Ed</b>	<b>Diopter Adjustment Lens Eg</b>	<b>Eyepiece Extender EP-EX15 II</b>	<b>Eyepiece Extender EP-EX15</b>	<b>Angle Finder C</b>	<b>Eyecup Ed-E</b>
Compatibility	EOS-1Ds Mark II, 1Ds, 1D Mark II N, 1D Mark II, 1D, D2000, 1v HS, 1v, 1N RS, 1N, 1	EOS-3, A2/A2e, ELAN 7 series, ELAN II/I/IIe	All EOS SLR cameras except: EOS Mark III series, EOS-3, A2/A2e, ELAN 7 series, ELAN II/I/IIe, IX, IX Lite	EOS-3, A2/A2e, ELAN 7 series, ELAN II/I/IIe	EOS-1D X, 1D Mark IV, 1Ds Mark III, 1D Mark III, 5D Mark III, 7D	EOS 5D Mark II, 60D, 50D, 40D, Rebel T4i, T3i, T2i, T3i, T1i, XSi, XS	All EOS SLR cameras except: 1Ds Mark III, 1D Mark II, 60D, 50D, 40D, EOS-3, A2/A2e, ELAN 7 series, ELAN II/I/IIe, IX, IX Lite	All EOS SLR cameras (Includes Adapter Ec-C and Ed-C to fit any EOS camera.)	EOS-3, A2/A2e, ELAN 7 series, ELAN II/I/IIe
Description	These eyecups use specially treated advanced-process glass, which helps to prevent condensation, or fogging. The eyecups are useful in warm, humid and cold weather, when fogging is most likely to occur. <small>Note: EOS-1Ds Mark III, EOS-1D Mark III and EOS 7D use Anti-fog Eyepiece Eg only.</small>		These Diopter Adjustment lenses provide near- and far-sighted users a clear viewfinder image without the use of eyeglasses. Available in versions from +3 to -4 dpt to match many types of eyesight, each Diopter Adjustment Lens fits into the eyepiece holders of the appropriate EOS model for convenient use and a comfortable fit. <small>Note: EOS-1Ds Mark III and EOS-1D Mark III require Diopter Adjustment Lens Eg only.</small>			Extends the eyepiece 5/8" (15mm) from the camera body and reduces viewfinder magnification by 30%. Useful for eyeglass wearers and others to keep the tip of the nose from touching the camera body.		Angle Finder C lets users adjust the viewing angle while providing a 2.5x magnification for critical focusing, or a full-screen image (1.25x) that includes exposure data. Provided with built-in diopter adjustment for variations in eyesight.	This large eyecup keeps out most sunlight and other external light, substantially enhancing viewfinder visibility. It is especially helpful for eyeglass wearers when photographing outdoors. The mount can be rotated for vertical shots.
	<b>Eyecup Eb</b>	<b>Eyecup Ec-II</b>	<b>Eyecup Ed</b>	<b>Eyecup Ef</b>	<b>Eyecup Eg</b>	<b>Rubber Frame Eb*</b>	<b>Rubber Frame Ec*</b>	<b>Rubber Frame Ef*</b>	
Compatibility	EOS ELAN, Rebel series**, 700, 750, 850, 6D, 5D Mark II, 5D, 60D, 50D, 40D, 30D, 20D, 20Da, 10D, D60, D30	EOS-1D Mark III, 1Ds Mark II, 1Ds, 1D Mark II N, 1D Mark II, 1D, D2000, 1v HS, 1v, 1N RS, 1N, 1	EOS-3, A2/A2e, ELAN 7 series, ELAN II/I/IIe	EOS Rebel T4i, T3i, T2i, T3i, T1i, XSi/XS, Digital Rebel XTi/XT, EOS Digital Rebel, Rebel T2, Ti, K2	EOS-1D X, 1D Mark IV, 1Ds Mark III, 1D Mark III, 5D Mark III, 7D	EOS 10S, ELAN, 6D 5D Mark II, 5D, 60D, 50D, 40D, 30D, 20D, 20Da, 10D, D60, D30, Rebel series**	EOS-1Ds Mark II, 1Ds, 1D Mark II N, 1D Mark II, 1D, D2000, 1v HS, 1v, 1N RS, 1N, 1	EOS Rebel T4i, T3i, T2i, T3i, T1i, XSi, XS, Digital Rebel, Rebel T2, Ti, K2, Required for use of Diopter Adjustment Lens E	

\* Used with Diopter Adjustment Lens E. \*\* Except Digital Rebel, Rebel T2, Ti and Rebel K2

## Focusing Screens Eg Series

	<b>Eg-A II:</b>	<b>Eg-A:</b>	<b>Eg-D:</b>	<b>Eg-S:</b>
Compatibility	EOS 6D	EOS 5D Mark II	EOS 6D, 5D Mark II	
Description	Standard focus screen exclusively for the EOS 6D. Bright and easy to distinguish focus. For general photography with all lenses.	Standard focus screen exclusively for the EOS 5D Mark II. Matte surface with nine AF points etched on screen. For general photography with all lenses.	Similar to standard Eg-A screen for the EOS 5D Mark II, but with horizontal and vertical lines for precise subject placement or alignment. EOS 5D must be set to Custom Function IV-5-1 for accurate exposure metering.	An all-matte focus screen for the EOS 5D Mark II with finer microlens structure than the standard screens. Out-of-focus areas show more vividly than with Eg-A and Eg-D screens. EOS 5D Mark II must be set to Custom Function IV-5-2 for accurate exposure metering.

## Focusing Screens Ef Series

	<b>Ef-A:</b>	<b>Ef-D:</b>	<b>Ef-S:</b>
Compatibility	EOS 60D, 50D, 40D		
Description	The standard focus screen for EOS 40D. Standard Precision Matte surface, ideal with most lenses including zooms f/3.5 thru f/5.6. All matte surface. Includes a special tool to remove existing screen.	Precision Matte surface, with etched grid lines to assist composition. The EOS 40D's AF points remain fully visible. Focus characteristics suited to most lenses.	Exclusively for the EOS 40D, this focus screen is optimized for wide-aperture lenses from f/1.8 to f/2.8. Areas that are slightly out of focus appear more out of focus, making it easier to tell when focus is right-on. Ideal for users who frequently manually-focus in dim light with fast lenses.

## Focusing Screens Ec Series

	<b>Ec-A: Microprism</b>	<b>Ec-B: New Split</b>	<b>Ec-C III: Laser-Matte</b>	<b>Ec-C IV: Laser-Matte</b>	<b>Ec-D: Laser-Matte with Sections</b>
Compatibility	EOS-1D X <sup>††</sup> , All models of EOS-1Ds and EOS-1D, EOS D2000, EOS-1v, 1N, 1N RS, EOS-1 and EOS-3				
Description	This matte field screen with microprism focusing spot in the center is used for general photography with all lenses. It achieves best results when using a lens of f/5.6 or faster.	This matte field screen with split-image focusing spot in the center is good for general photography with all lenses.	Standard on the EOS-1D series, EOS-1v HS/EOS-1v, and compatible with all EF lenses, this screen includes an Area AF ellipse and spot metering circle. Manual focus can be checked anywhere on the screen.	This Laser Matte Ec-C IV uses a shaping method improved over the Ec-C III. It achieves easier focusing and good background blur. Brighter, less grainy, and better balanced.	This is a matte field screen with sections. Grid lines assist in determining accurate picture composition. It is especially well suited for close-up photography or for copy work using EF macro lenses, it can also be used for general photography with all lenses.

	<b>Ec-H: Laser-Matte with Scale</b>	<b>Ec-I: Laser-Matte with Double Cross-Hair Reticle</b>	<b>Ec-L: Cross-Split Image</b>	<b>Ec-N: New Laser-Matte</b>	<b>Ec-R: New Laser-Matte</b>	<b>Ec-S: Super Precision Matte</b>
Compatibility	EOS-1D X <sup>††</sup> , All models of EOS-1Ds and EOS-1D, EOS D2000, EOS-1v, 1N, 1N RS, EOS-1 and EOS-3					
Description	A matte field screen with vertical and horizontal scales marked in millimeters, this screen is effective for close-up photography and photo-micrography. Useful in determining magnification ratios and composition, this screen can be used with all lenses.	This is a matte field screen with a clear center spot containing a double cross-hair reticle. Focusing is possible using the floating image of the central cross hair. This screen is particularly useful for photomicrography and astrophotography. Surrounding matte field can be used with all lenses.	This matte field screen has a cross-split image in the center, which divides the subject in half both vertically and horizontally for accurate manual focusing. Used for general photography with all lenses, best results are obtained when using a lens of f/5.6 or faster.	This is the standard screen for the EOS-3. The outer oval-shape the 45 AF points; the inner circle is for spot and FEL metering. When shooting, the focusing points will be indicated in red LCD markings. Along with the Ec-R screen, it is approximately 1/2 stop brighter than the Laser-Matte series screens.	This is the standard screen provided with the EOS-1N RS. It compensates for decreased viewfinder brightness due to the low reflection factor of the pellicle mirror. It is about 1/2-stop brighter but otherwise similar to Focusing Screen Ec-CII. It can be used in all EOS-1 series cameras, as well as the EOS-3.	An all-matte focus screen for the EOS-1D Mark II N with finer microlens structure than the standard screens. Out-of-focus areas show more vividly than with the other Ec type screens. Ideal for fast lenses (f/1.8 through f/2.8 max aperture).

## Focusing Screen Sets for 4x5 and Square Formats

	<b>Ec-1Ds/Ec-1D/Ee: Crop Lines</b>	<b>Ec-1Ds/Ec-1D/Ee: Black Mask</b>
Compatibility	EOS-1D X <sup>††</sup> , 1D Mark IV, 1Ds/1D Mark III, 1Ds/1D Mark II, 1Ds/1D	
Description	Ideal for the portrait and wedding photographer, the set "Crop Lines" includes two focus screens—one with 4x5 (or 8x10) crop lines etched on the screen, and a second screen with lines for square composition. All exposure metering can be performed normally in camera, and red focus point illumination remains fully active. The other sets "Black Mask" have an opaque black mask outside the picture area. One screen of the set shows the area for 4x5 (or 8x10) cropping, the other shows the area for square cropping. Partial or Spot metering is recommended for these screens. E-TTL II flash exposure will definitely require significant compensation. FEL (Flash Exposure Lock) in conjunction with either partial or spot metering is recommended. 3 types are available for both sets respectively, according to the size of the CMOS sensor and viewfinder optics: for full frame 1Ds series*, 1D series and for 5D. <small>*Can also be attached to 35mm EOS-1 series and EOS-3 cameras.</small>	

## Focusing Screens Ee Series

	<b>Ee-A: Precision Matte</b>	<b>Ee-D: Precision Matte with Grid Lines</b>	<b>Ee-S: Super-Precision Matte</b>
Compatibility	5D		
Description	Replacement standard focus screen exclusively for the EOS 5D. Matte surface with nine AF points etched on screen. For general photography with all lenses.	Similar to standard Ee-A screen for EOS 5D, but with horizontal and vertical lines for precise subject placement or alignment. Overall matte surface gives viewing and focusing very similar to standard Ee-A screen. EOS 5D must be set to Custom Function 00-1 for accurate exposure metering.	An all-matte focus screen for the EOS 5D with finer microlens structure than the standard screens. Out-of-focus areas show more vividly than with Ee-A and Ee-D screens. It works best with lenses from f/1.8 to f/2.8 max aperture, especially for manual focusing. EOS 5D must be set to Custom Function 00-2 for accurate exposure metering.

**Note:** All focusing screens include a special tool for removing original screen and installing new screen. EOS-1Ds, EOS-1D Mark II, EOS-1D, EOS-1v HS and EOS-1v—If using New Laser Matte Focus Screens Ec-N or Ec-R, be sure to set camera's Custom Function C.Fn-0 to "0". EOS-3—If using Laser Matte Ec-A, Ec-B, Ec-C II, Ec-C III, Ec-D, Ec-L or Ec-L focus screens, be sure to set camera's Custom Function C.Fn-0 to "1". Exposure compensation is required when combining the focusing screen Ec-R with the EOS-1 or EOS-1N, and when combining the focusing screens Ec-A, B, CII, D, H, I and L with the EOS-1 N RS. Refer to each focusing screen's instructions for detailed information. † EOS-1Ds Mark III, 1D Mark III and 1D Mark II N must be set to appropriate Custom Function for accurate exposure metering when this screen is installed. Manual exposure is required for use with other EOS-1 series cameras. †† For the EOS-1D X, by changing the Focusing Screen Custom Function setting, the camera can be compatible with the Laser Matte focusing screens: Ec-A, B, D, H, I, and L. The Ec-C IV and Ec-C, CII, CIII, S, N, and R focusing screens can also be installed, but since there is no Focusing Screen Custom Function setting for them, you must set exposure compensation as you shoot.

## Peripherals

To add more power, ergonomics and speed to your EOS SLR body, consider one of Canon's professional quality power boosters and grips. Check out the chart below to find the best match for your EOS SLR.

### Interface & Video Cables

						
<b>Length</b>	6.9 ft. (1.9m) / 15.4 ft. (4.7m)	6.6 ft. (2m)	3.3 ft./1m	9.5 ft./2.9m	4.9 ft./1.5m	4.9 ft./1.5m
<b>Compatibility</b>	USB cable for EOS-1D X, 1Ds Mark III, 1D Mark III, 1D Mark IV, 5D Mark III, 6D, 5D Mark II, 7D, 60D, 50D, 40D, Rebel T4i, T3i, T2i, T3, T1i, XSi, XS, EOS M	D6: EOS-1Ds, 1D / D4: 1Ds Mark II, 1Ds, 1D Mark II N, 1D Mark II, 1D / D44: 1Ds Mark II, 1D Mark II N, 1D Mark II, IEEE 1394 (FireWire®) interface cables used to connect the EOS to a MAC or Windows.	400 cable: EOS-1Ds, 1D Mark II, 1D Mark II N, 1D Mark II, 5D, 30D, 20D, 20Da, 10D, Digital Rebel XTi, Rebel XT, Digital Rebel 200 cable: EOS-1Ds Mark II, 1D Mark II, 20D, 10D, Digital Rebel 200 cable: EOS D60, D30	EOS-1D X, 1D Mark IV, 5D Mark III, 6D, 5D Mark II, 7D, 60D, 50D, Rebel T4i, T3i, T2i, T3, T1i, EOS M	EOS-1D X, 1D Mark IV, 5D Mark III, 6D, 7D, 60D, Rebel T4i, T3i, T2i	EOS 5D Mark II
<b>Description</b>	EOS-1D X†, All models of EOS-1Ds and EOS-1D, EOS D2000, EOS-1v, 1N, 1N RS, EOS-1 and EOS-3	D6: 6-pin/6-pin, D4: 4-pin/6-pin, D44: 4-pin/4-pin, Mark II series cameras have 4-pin, FireWire connector.	USB interface cables used to connect the EOS to a Mac or Windows.	Cable to connect the Camera's mini-HDMI OUT terminal to the TV's HDMI port.	Enables direct image display from the EOS to an HD television or a similar display device.	Cable to connect the EOS 5D Mark II's 3.5mm dia. 4-pole mini jack to the TV or other appliance's AV jack (video and audio L/R).

\* Comes standard with the EOS-1D X, 1Ds Mark III, 1D Mark IV, 1D Mark III, 5D Mark II, 7D, 60D, 50D, 40D, Rebel T2i, T1i, XSi, XS \*\* Comes standard with the EOS-1Ds \*\*\* Comes standard with the EOS-1D Mark II \*\*\*\* Comes standard with the EOS-1Ds Mark III, 1D Mark IV, 1D Mark III, 1Ds Mark II, 1D Mark II N, 1D Mark II, 5D Mark II, 7D, 5D, 50D, 40D, 30D, 20D, 10D and all Digital Rebel † Comes standard with the EOS 1D Mark IV, 7D, 60D, Rebel T3i, T2i

### Tripod & Monopod

		
<b>Length</b>	62" extended/23" folded	64.5" extended/21.9" folded
<b>Weight</b>	2.65 lbs.	1.1 lbs.
<b>Description</b>	This lightweight tripod is designed for easy portability and maximum stability. It features a 3-way pan head for precise control. The 3-section tubular leg construction allows for amazing stability. The tripod also features a built-in water level and a quick release shoe.	A lightweight, high-quality monopod featuring a deluxe 4-section compact tubular leg with quickside-lever leg locks and rubber tipped foot for added stability. The Monopod 100 has a foam-covered handgrip, wrist strap and also a ball socket head.

### Rain Cover

The rain cover can be used with any EOS DSLR and select EOS film cameras by replacing the eyecup. Comes in small, medium and large to fit a wide range of lenses.



### Canon Straps

				
<b>Professional Neck Strap 1</b> Rugged, high quality neck strap designed for the most demanding photographers. Features durable non-slip backing, quick-release clips and anti-twist hardware to make carrying and shooting easy.	<b>Neck Strap L4</b>	<b>Neck Strap L3</b>	<b>Hand Strap E2</b>	

\* Also available separately. † For compatibility with specific lenses see your Canon Authorized Dealer or visit [usa.canon.com/eos](http://usa.canon.com/eos).

## Bags & Cases

Canon offers a comprehensive line of accessories for the photographer on the go. Canon's camera cases are built specially to help protect EOS models, and the bags can accommodate a number of different camera configurations. These are all built to the highest standards, and are the perfect complement to the EOS System.



### Bag

				
<b>Storage Capacity</b>	1~2, 2~3, 1	1~2, 2~3	2, 7~10	2, 5~8
<b>Compatibility</b>	Inside: 13" x 9.5" x 6.25" (W x H x D)	Inside: 10.5" x 7.5" x 7" (W x H x D)	Inside: 14.2" x 8.7" x 8.3" (W x H x D)	Inside: 10.5" x 8.0" x 7.5" (W x H x D)
<b>Description</b>	To hold cameras, lenses, accessories and a laptop computer. It features a durable, water-repellent nylon extender, pockets and padded dividers. Also Custom Media Case 10DG* to organize memory cards and CDs is included.	This bag has a roomy main compartment for camera body and extra lenses. Front and side pocket hold extra batteries, storage media and others. This functional bag is with non-slip shoulder strap and water-resistant nylon covering to keep your gear safe and sound.	Waterproof, urethane-coated material provides this bag with superlative weather protection and the weather flapped top cover. Fully padded pockets and zippered pouches provide storage spaces with fast access to equipment.	Made with rugged, waterproof material with all the features of the Professional Gadget Bag 1EG. Plus a built-in waist belt that tucks away behind the rear pouch.

				
<b>Storage Capacity</b>	1, 1~2	1~2, 3~4	1~2, 3~4	1, 1
<b>Compatibility</b>	Size: 9.5" x 7.0" x 6.0" (W x H x D)	Inside: 10" x 14.75" x 5" (W x H x D)	Inside: 9" x 7" x 5.5" (W x H x D)	Inside: 6.5" x 8.7" x 4.72" (W x H x D)
<b>Description</b>	A lightweight and versatile camera bag designed to hold your important gear. Durable water-repellent nylon shell and padded interior keep all equipment secure. Front and side pockets add storage space and easy access for smaller items.	Perfect for the active photographer. Constructed of rugged water-repellent nylon, well arranged dividers and multiple pockets and pouches mean there is plenty of room for just about anything.	The front zippered pouch features 3 accessory pockets. The rear flat-pouch is perfect for storing things such as plane tickets. There is also a zippered full-length mesh pouch inside the top cover.	Specially designed to comfortably transport one camera with a standard zoom lens. It features waterproof material, a belt strap and front pouch for small items such as films, memory cards or accessories.

### Case

	<b>Semi-Hard Case EH19-L</b>
<b>Compatibility</b>	EOS Rebel T4i, T3i, T3, T1i, XSi

# CINEMA EOS

LEAVE NO STORY UNTOLD



**NEW** EOS C500 **4K**

EOS C300

**NEW** EOS C100

EOS-1D C **4K**



On the set of "SWORD," a short film shot exclusively with the Canon Cinema EOS system.

# CINEMA EOS SYSTEM

## Leave No Story Untold

Designed from the ground up, the Cinema EOS System was created to serve the evolving needs of the cinematography world. Beginning with the revolutionary EOS C300 Digital Cinema Camera, the Cinema EOS System expands with the EOS C500 4K Digital Cinema Camera, the EOS-1D C 4K DSLR Cinema Camera\* which is the first Canon hybrid DSLR to offer onboard 4K motion imaging, and the versatile EOS C100 Digital Video Camera which offers the same level of image quality and designed for more independent operation. Compatible with the evolving lineup of Canon EF Cinema and EF Lenses and complemented by an extensive service, support and education infrastructure, the Canon Cinema EOS System offers unrivaled versatility and limitless potential for growth, allowing you to tell your story the way you imagined it.



EOS C300

## EF CINEMA LENSES

Canon already offers one of the finest and most comprehensive lens lineup available to cinematographers and videographers from any single vendor. Over 60 prime and zoom lenses in a variety of configurations – from our flagship zooms to compact primes. All share Canon’s renowned accuracy, clarity and optical brilliance to bring fresh perspective to your vision. And now, with our expanded lineup of 7 EF Cinema lenses exclusively designed for cinematography, we’ve covered the basics – and with more on the way to stimulate your creativity.



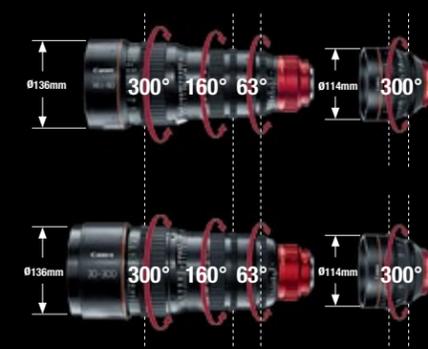
### Canon EF Cinema Lenses

Canon EF Cinema lenses are designed and engineered to meet or exceed the exacting standards of working professionals. Every Canon EF Cinema lens is designed to fulfill contemporary 4K production standards, surpassing the performance requirements of any HD imaging system. Zoom lenses feature large aspherical lens elements to achieve sharp, consistent images in virtually every shooting situation. Geared inner focusing minimizes focus-induced changes in the angle of view, reducing focus breathing virtually to zero. The 11-blade aperture diaphragms ensure beautiful bokeh – and innovative glass construction counteracts barrel expansion and contraction to avoid temperature-induced marking discrepancies.

### Uncompromising Design for Working Professionals

EF Cinema lenses provide markings on angled surfaces on both sides of the barrel, making it easy to read focus and aperture settings from behind or either side of the camera. Focus markings can be switched from standard labeling to metric. Control rings are designed to maintain the proper amount of resistance with consistent operating torque. For zoom lenses, a covered flange-back adjustment mechanism is included. Each EF Cinema zoom lens or EF Cinema prime lens shares uniform gear position, diameter and

rotation angle as well as front lens diameters, enabling the film crew to quickly change lenses without adjustment of the rig setup.



### Broad Compatibility with EOS Cameras

The versatility of the Canon Cinema EOS approach also makes it compatible with more cinema optics than any other camera system. With their large image circle, EF Cinema prime lenses are compatible with every Canon EOS DSLR (manual operation only) – including full-frame models like the EOS-1D X and the EOS 5D Mark III as well as cameras like the EOS 7D and EOS 60D that utilize APS-C sized sensors.

### EF Cinema Zoom Lenses

Canon EF Cinema zoom series offer extraordinary optical performance for demanding high-end productions, available in EF and PL mount

configurations. With fluorite, aspherical lens elements and advanced optical design, these unsurpassed EF Cinema lenses are capable of 4K image reproduction. The wide-angle CN-E14.5–60mm T2.6 L S/SP provides industry-leading breadth of range; the telephoto CN-E30–300mm T2.95–3.7 L S/SP rivals best-in-class zoom magnification and telephoto focal length. Together these lenses cover the range most commonly used in cinema shooting.

### EF Cinema Prime Lenses

The brilliant series of EF Cinema prime lenses offer spectacular 4K-image quality and a full frame image circle, in lightweight, compact designs. Three models for EF mount cameras – CN-E24mm T1.5 L F, CN-E50mm T1.3 L F, and CN-E85mm T1.3 L F – offer consistent form factors and marking optimized for motion picture production. Whether you shoot with a Canon EOS C300 or EOS DSLR, you will appreciate the compact and consistent lens design; and your audience will love the results from the 11-blade aperture diaphragms, fast t-stops and proven Canon lens elements.

Additional lenses are already under development, reflecting Canon’s commitment to offer the broadest range of professional cinema lenses to meet your needs, now and in the future.

\* At time of printing, 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.

# EOS C300/EOS C300 PL

Technology – but never for its own sake. Always to simplify your shoot. Increase your options. Advance your art. Accelerate your project turn time. And lower costs. The technology behind Canon's Cinema EOS system draws on everything we've learned about digital image capture – and every innovation that truly serves your creative effort.



## Canon EOS C300 (EF Mount) and EOS C300 PL (PL Mount)

To integrate easily into the working style and equipment array of film crews and production houses, the Cinema EOS system begins with two camera bodies. The EOS C300 has a Canon EF lens mount and is compatible with all of Canon's EF lenses, including compact primes, super telephotos, specialty Tilt-Shift, Macro and fisheye – over 60 in all. It also has communication contacts built into its mount, allowing EF lens functions such as focus and iris to be adjusted wirelessly via the optional Canon Wireless File Transmitter WFT-E6A unit. This offers huge potential for specialty applications where cameras must be controlled remotely such as nature documentaries or reality TV. The EOS C300 PL has a PL mount and is compatible, both with a new series of Canon EF Cinema lenses (PL mount), as well as the majority of third-party optics available for 35mm motion picture cameras.

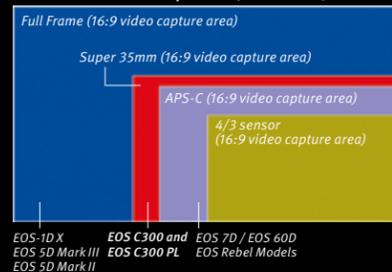


EOS C300 with EF mount    EOS C300 PL with PL mount

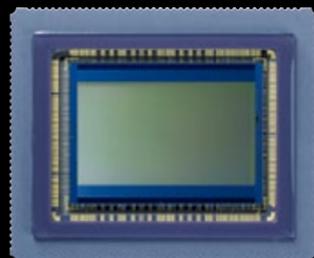
## Super 35mm Canon CMOS Sensor

Modeled on the Super 35mm 3-perf motion picture film standard, Canon's CMOS sensor has an effective screen size of 24.6 x 13.8mm. It utilizes 3840 (H) x 2160 (V) photosites

CMOS sensor size comparison (not to scale)

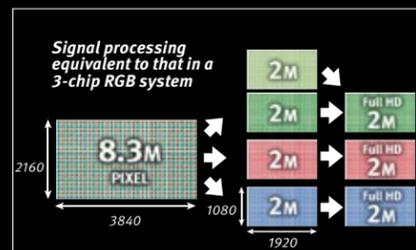


to perform the crucial optoelectronic transformation of digital imaging. Each photosite is a generous 6.4 x 6.4 micrometers in area and each has a microlens that ensures the highest efficiency in light transfer to the individual photodiode. Proprietary technologies within the photosite simultaneously lower the image sensor noise floor while enhancing the photon capacity of the photodiode – a combination that assures superb dynamic range. The image sensor utilizes an innovative readout technique that delivers full bandwidth individual RGB video components without the need for any debayering algorithms. Each of these components has a 1920 (H) x 1080 (V) sampling structure at up to 60 frames. From these original video components, a 1080-line 60i format or a 1280 (H) x 720 (V) at 60P format is selectively derived. A high-speed readout significantly reduces the subjective visibility



Actual size

of vertical skewing on fast-moving horizontal subjects that is characteristic of CMOS image sensors.

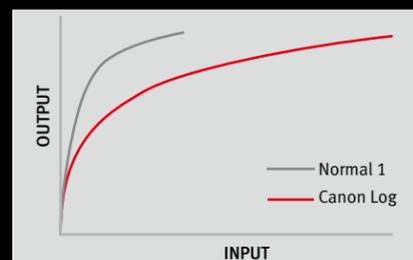


## Canon DiGiC DV III Image Processor

Designed and built by Canon for the highest HD RGB processing, the DiGiC DV III Image Processor uses proprietary circuits and architecture to deliver the highest image quality at the highest speeds. It processes the RGB representations originated in the single CMOS sensor into three channels (Red, Blue and Green) to maintain the rich resolution and clean color fidelity formerly possible only in three-chip sensor designs.

## Canon Log Gamma

Shooting in Canon Log mode, cinematographers can set the camera exposure value using their customary light meter practices. Canon Log is a special nonlinear transfer function embodied within the DiGiC DV III RGB video processing system. This transfer function is specifically designed to facilitate the post-production of digital images originating in Cinema EOS in a



Canon Log – Ensures tonal reproduction for both highlight and lowlight regions during post-production.

manner akin to the post-production of images digitally transferred from motion picture film (the contemporary DI process). By managing the disposition of quantization bits, Canon Log ensures excellent tonal reproduction within both highlight and lowlight regions of a given digital image – maintaining a total dynamic range of 800%. These sophisticated video grading processes restructure a new digital representation that achieves your sought-after creative look on a quality reference display.

## High Image Quality for Post Production Benefits

Whether showing dailies to producers or beginning the edit process, professionals demand images of the highest quality – pictures that look great and hold up during post-production. Canon developed the EOS C300 and EOS C300 PL sensor to capture images with a wide pixel pitch for detailed, low-noise blacks and impressive dynamic latitude even at higher sensitivities. The EOS C300 and EOS C300 PL can also record different frame rates, including 23.98, true 24.00 if you're also shooting with a film camera, plus 25P/50i and 30P/60i. Capturing high-quality images ready for post, the EOS C300 and EOS C300 PL benefit everyone involved in the cinematic process, from capture to post.

EOS C300 and EOS C300 PL – ISO and Dynamic Range specifications (Canon Log, Progressive scan)

S/N Ratio	GAIN	18% GRAY	ISO
41dB	6.7 Stops	30dB	ISO 20000
45dB	6.7 Stops	26dB	ISO 12800
50dB	6.7 Stops	20dB	ISO 6400
53dB	6.7 Stops	14dB	ISO 3200
54dB	6.7 Stops	8dB	ISO 1600
54dB	6.7 Stops	2.5dB	ISO 850
54dB	6.8 Stops	2dB	ISO 800
54dB	6.8 Stops	0dB	ISO 640
54dB	7.8 Stops	-4dB	ISO 400
54dB	8.1 Stops	-6dB	ISO 320

## Dynamic Range

The EOS C300 and EOS C300 PL incorporate the first Canon CMOS sensor designed specifically for high frame rate motion pictures, offering not only high resolution and shallow depth-of-field but also high sensitivity with low noise. Working together, Canon's Super 35mm sensor and DiGiC DV III Image Processor achieve a remarkably high signal-to-noise ratio that lets you record with great detail and dynamic range even in minimal light. A dark and stormy night? With the EOS C300 and EOS C300 PL, no problem.

## Compact Modular Design

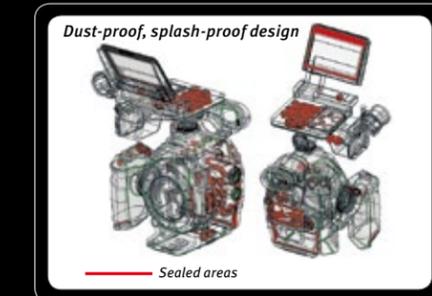
The EOS C300 and EOS C300 PL are surprisingly small (5.24" x 6.73" x 7.05") and easily hand-held at just over 3 lbs. They have a bright 1.55 megapixel electronic viewfinder and come bundled with a removable combination 4" 1.23



megapixel monitor and control panel. They also have a rotatable and removable hand grip with a control dial and function buttons for hand-held shooting in DSLR style – or remove it and use the supplied thumb rest for completely stripped-down shooting. The EOS C300 and EOS C300 PL have a manually-operated built-in Neutral Density glass filter offering 2, 4 and 6 stops of filtering. Hand-held or using a tripod, on location or in the studio, the EOS C300 and EOS C300 PL fit shooting situations that are challenging for larger cameras.

## Rugged, Durable and Quiet

The EOS C300 and EOS C300 PL's dust-proof and splash-proof design includes sealing gaskets around the edges of all access covers, dials fitted with o-rings on the axis of rotation, and button key-tops sealed with rubber. The EOS C300 and EOS C300 PL also feature a built-in silent cooling system with a heat-dissipating duct in the center of the body, a graphite sheet that



conducts sensor heat towards the heat sink, three ventilation holes and a cooling fan that pulls hot air out through an exhaust opening. All air is directed through a discrete pathway that keeps dust particles away from sensitive components. Your camera runs cool, quiet and clean.

## Comfortable Ergonomic Controls

The moment you pick up the EOS C300 or EOS C300 PL, you'll feel right at home. The detachable grip rotates 360° in 15-degree increments so the start/stop, iris control and multi-controller buttons are always literally at your fingertips. Four separate start/stop buttons and 15 other customizable buttons distributed over the camera body mean quiet and intuitive access. Large dials positioned in two places can be customized for different functions and are easy to operate from all angles. The viewfinder tilts up to a convenient 60° angle. The 4" control panel and 1.23 megapixel monitor rotates 135° left/right or 270° down – and can be mounted directly on the camera body or the handle unit. Top, behind, from either side, on either shoulder – the EOS C300 and EOS C300 PL operate from any angle.

## Designed with Filmmakers in Mind

With everything a cinematographer needs, the EOS C300 and EOS C300 PL come ready to produce. A logical layout of buttons and dials make operation simple. A lock switch turns off all controls except the recording button and the function buttons. Small ridges between the buttons help prevent activating functions by mistake. The backlit display panel is great for low-light viewing. A tally lamp is clearly visible from the side or behind the camera. The EOS C300 and EOS C300 PL have a Waveform Monitor (WFM) function that shows the overall brightness of a scene, with RGB Parade Display to view red, green and blue brightness or Spot Display to isolate the luminance distribution of a chosen area. The EOS C300 and EOS C300 PL Vectorscope (VS) display shows real-time hue and saturation levels. For sharp focus, the EOS C300 and EOS C300 PL have two peaking modes and a magnified focus assist function. An Edge Monitor Focus Assist provides both a waveform representing the overall degree of focus and a red waveform that represents focus in three specific areas displayed on the camera's 4" LCD monitor. It's all in the camera.





### Rich Audio Controls

When mounted to the EOS C300 or EOS C300 PL cameras, the included control unit provides two XLR audio inputs with +48V phantom power. A 3.5mm microphone terminal is also built into the camera. Audio is recorded uncompressed in 16-bit PCM format at 48 kHz for high fidelity sound. Both XLR inputs, as well as the mic terminal have the option for automatic, as well as full manual gain control (-Infinity to +18dB). Additionally, a 3.5mm headphone terminal with 16 volume settings offers accurate audio monitoring.

### Compatibility with Third-Party Accessories

Cinema EOS is designed to fit seamlessly into your existing workflow. Not only is the EOS C300 series compatible with an extraordinary range of PL and EF lenses, it's also compatible with major third-party shooting accessories like matte boxes, flags and support rods, geared control rings, marking disks, and knobs for follow focus. You can step up to the Cinema EOS system and not worry about leaving your favorite equipment behind.

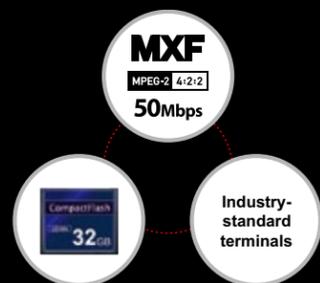
### Wireless Control for Remote Shooting

Greater mobility when you need it – that's the advantage of Canon's optional Wireless File Transmitter WFT-E6A. The EOS C300 and EOS C300 PL come preconfigured so that camera settings can be viewed and securely controlled on third-party devices with common web browsers, including computers, smartphones and tablets without the need for additional software. With the WFT-E6A module, the camera can be controlled from up to 150 feet away over an 802.11 b/g/n/a wireless

network. The WFT-E6A lets you start and stop recording and also adjust focus, white balance, gain and other parameters as well as adjust the aperture of Canon EF lenses. It also gives you input marking for metadata and offers a live view of the composition. It even supports incorporating GPS information into the file metadata – useful for general cinematic applications, and essential for expedition filmmakers.

### Accommodating File-Based Production

The Cinema EOS system creates files in the internationally standardized Material eXchange Format (MXF) – wrapping video and audio with metadata in a single file that maintains access to critical information throughout the production process. The EOS C300 and EOS C300 PL record to inexpensive and easy-to-find CF cards in dual card slots, giving you unlimited hot-swappable storage on reliable solid-state media. And for industry standard peripherals, the EOS C300 and EOS C300 PL have all the right terminals: Remote (2.5mm), Sync out (BNC), HDMI type A out, GenLock (BNC), Time Code (BNC), HD/SDI (BNC), Headphone, DC IN socket, plus MIC and XLR connectors (CH1 & CH2) when using the Canon Monitor/Controller unit. The camera also includes a dedicated connection port for the optional Canon Wireless File Transfer WFT-E6A unit.



### Perfect for Mixed Shoot Editings

The tremendous dynamic range of the EOS C300 and EOS C300 PL with Canon Log gamma can be easily converted to industry standard 10-bit Cineone (.cin) Log format which assures smooth integration with industry standard post workflow and finishing. The EOS C300's and EOS C300 PL's 24.00p mode matches the exact frame rates of film cameras, so there's no need for time-consuming frame-rate conversion. And you'll have support for leading NLE systems from Adobe®, Apple®, Avid® and Grass Valley®. Whether your entire production is digital or your EOS C300 and EOS C300 PL are used as an A, B, or C camera on a primarily film-based shoot, the integrity

of your image and sound is assured through the editing process – and beyond.

### XF Codec Image Quality

To create digital files robust enough for major post-production, the EOS C300 and EOS C300 PL deliver the highest image quality with its

**XF Codec Quality Chart**

4:2:2	Color difference signals: B-Y(Pb)	Color difference signals: R-Y(Pr)
4:2:0	Color difference signals: B-Y(Pb)	Color difference signals: R-Y(Pr)

*These illustrations represent a color image converted to RGB, after which each component signal is converted to monochrome. Since B-Y and R-Y signals lack a brightness component and only indicate saturation, images produced from them look quite unnatural to the human eye. To avoid confusion, the illustrations are produced by conversion to monochrome and then, for convenience, conversion of saturation to brightness.*

XF Codec – the same codec used by Canon XF-series professional camcorders. With 4:2:2 color sampling, EOS C300 and EOS C300 PL image files have double the vertical resolution of color components created with 4:2:0 color sampling, minimizing jagged edges between red and blue and ensuring ample quality for chroma key compositing with green screens. Thanks to the Canon XF Codec and the EOS C300's and EOS C300 PL's superb resolution, your color quality and cinematic look will hold up through post-production – and your result will match your expectations.

### Non-Linear Editing Integration

Thanks to the use of an industry-standard XF Codec, transferring recorded material from the EOS C300 and C300 PL to Non-Linear Editing (NLE) programs can be done easily and efficiently by either directly importing to Adobe or Grass Valley systems, or via Canon supplied plug-ins to Apple or Avid. You'll also have Windows® / Mac® compatibility for cross-platform versatility. For professional editing or file management outside of NLE programs, Canon's included XF Utilities software offers basic playback, backup, metadata management and much more - in a simple logical package that doesn't require extensive training.



Frame grab from the Sam Nicholson, A.S.C., film "XXIT." Shot with the EOS C300 and EF 8-15mm f/4L Fisheye USM.

## EF LENSES FOR CINEMA EOS

Compatibility – your key to creativity, productivity and profit. The lenses you already own and trust. The optical elements and coatings that render every nuance of every scene. The systems made famous by generations of the world's finest still photographers. All coming together in Cinema EOS to give professionals every opportunity to leave no story untold.

### EF Lenses for Cinema EOS

Perfect in Canon laboratories and proven in the field, Canon's EF lenses incorporate a rare array of the world's most advanced optical, microelectronic, and manufacturing



EOS C300 with EF 8-15mm f/4L Fisheye USM during filming of "XXIT."

technologies. Many lenses make use of Canon's advanced Peripheral Illumination Correction feature, rendering beautiful consistent color and brightness across the entire image plane when used with compatible cameras such as the EOS C300. Their compatibility with the EF mount of the EOS C300 not only gives the Cinema EOS system access to the finest optics on the market, it also opens up new creative possibilities with Canon specialty lenses – including Tilt-Shift, Macro and Canon's amazing EF 8-15mm f/4L Fisheye USM zoom lens.

### L-Series Lenses

Canon L-series lenses are highly regarded by professionals who demand uncompromising optical performance in specialized situations. These specialty lenses incorporate innovative Canon technologies such as Ultra-low Dispersion (UD) glass, fluorite and aspherical elements, and Super Spectra Multi Coating. Canon L-series lenses have earned their place on the cameras of serious photographers across the globe.



## The Perfect Complement to Your EOS System

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 camera and a PowerShot digital camera. They're the perfect complement to each other.

**PowerShot**  
DIGITAL CAMERA

## PowerShot G1 X DIGITAL CAMERA

### The Pinnacle of PowerShot

The PowerShot G1 X will inspire those who have embraced the G-Series to explore new realms of photographic expression, and give pros an excellent camera that complements their creative demands. It's 1.5-inch High-Sensitivity CMOS sensor approaches an EOS DSLR's APS-C sized sensor, with a light-sensitive area that's approximately 6.3 times larger than that of the previous G-Series camera sensors for stunningly detailed images with beautiful background blur, lower noise—even in low light.



## PowerShot G15 DIGITAL CAMERA

### Explore Imaging Excellence

The legacy of the G-series shines brightly with the new PowerShot G15 and its bright f/1.8(W)–f/2.8(T) 5x Optical Zoom 28–140mm lens. A Wide-Angle 28mm lens captures scenes with a distinctive sweep and grandeur, while the large aperture excels in low-light situations and produces shallow depth-of-field for attractive background blur. The Canon HS SYSTEM is the powerful combination of a 12.1 Megapixel CMOS sensor and the latest-generation DIGIC 5 Image Processor. You can now select multiple aspect ratios when shooting in RAW mode, including 16:9, 3:2, 4:3, 1:1, and 4:5.



## PowerShot S110 DIGITAL CAMERA

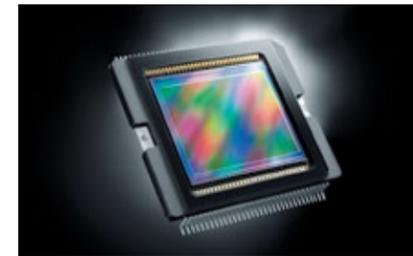
### Superb Performance with a Wireless Touch

The PowerShot S110 offers advanced photographers and enthusiasts complete manual control and stunning image quality in a slim, compact body. The 12.1 Megapixel CMOS sensor and DIGIC 5 Image Processor produce beautiful prints. The 5x Optical Zoom and Wide-Angle lens with bright f/2.0 aperture opens up new photographic vistas. The 3.0-inch capacitive touch panel PureColor System LCD monitor and a control ring provide full manual control of imaging functions. While built-in Wi-Fi<sup>®</sup> allows easy sharing of images to CANON iMAGE GATEWAY<sup>#</sup>, social networking sites, and other Wi-Fi equipped PowerShot cameras and iOS or Android devices. The PowerShot S110 allows you to wirelessly print to a Wi-Fi compatible printer<sup>^</sup> and can also add GPS<sup>+</sup> data, recorded on your iOS or Android smartphone<sup>++</sup> with the Canon CameraWindow app\*, to images in the camera.



### 1.5-inch CMOS Sensor

The 1.5-inch Canon CMOS sensor captures stills and videos in amazing quality. Nearly the size of an EOS APS-C size sensor, the bigger sensor area enables each pixel to be larger allowing more light to be captured, for incredible low-light performance up to ISO 12800 with minimal noise and a wide dynamic range even in shadow and highlight areas. An added benefit of a fast f/2.8 lens offers better control over depth-of-field for sharp images with beautiful background blur.



### Bright Lenses

The PowerShot G1 X, G15 and S110 come equipped with some of the most celebrated optics offered by Canon. With maximum apertures, fast lenses (f/2.8 on the G1 X and G15, and f/2.0 on the S110), wide-angle zooms (28–112mm on the G1X, 28–140mm on the G15, and 24–120mm on the S110) and the lens-based Optical Image Stabilizer (OIS), images are guaranteed to be sharp and crisp. Now, Canon takes it even further with Hybrid IS to work in unison with OIS to greatly reduce pitch and yaw during macro photography to produce impressive results no matter the subject.



### HS SYSTEM

The superb performance of the PowerShot G1 X, G15 and S110 is in no small part due to the HS SYSTEM from Canon. The combination of an advanced high-sensitivity sensor and the brilliant DIGIC Image Processor, along with the fast lenses (f/2.8 on the G1 X and G15, and f/2.0 on the S110) and the Canon Optical Image Stabilizer, ensure enhanced performance. It delivers lower noise images even at higher ISO speeds and an increase in dynamic range. With less blurring and superb detail, image quality is dramatically improved in numerous shooting situations.



### DiGIC 5/4 Image Processors

Since their groundbreaking introduction in 1999, Canon DIGIC Image Processors have set the standard for performance and brought powerful new features to PowerShot digital cameras with each successive generation. The DIGIC 4 Image Processor ushered in a new level of picture quality and accelerated processing, making possible features such as high-speed continuous shooting, Full HD Video, and improved low-light capture. The latest DIGIC 5 Image Processor, found in select new PowerShot models, delivers higher quality continuous rapid shooting, improved noise reduction under low light and an advanced Multi-area White Balance.



### HD Video

The PowerShot G1 X, G15 and S110 do more than take amazing photos. They are also exceptionally versatile image capture tools that can shoot stunning 1080p Full HD video. Enjoy your spectacular HD footage with stereo sound on your HDTV, with the convenient HDMI output connector.



### Optical Image Stabilizer

Handheld shooting can often lead to camera shake, making photos and videos blurry. Canon's Optical Image Stabilizer is a sophisticated system that shifts a lens group to correct unwanted camera movement. It makes handheld photography more practical in more shooting situations. For photos, it enables shooting at slower shutter speeds, accommodating more low-light shooting situations than ever before without having to boost ISO sensitivity. With camera shake reduced, you get a sharper, steadier image.



### Intelligent IS

The latest advance in Canon Optical Image Stabilization technology, Intelligent IS analyzes camera movement and applies the best shake correction method for the shooting situation. For still photos, the system automatically select among Normal, Panning, Macro (Hybrid IS) and Tripod IS modes. When shooting video, the system automatically selects among Dynamic, Powered, Macro and Tripod IS modes. With Intelligent IS, you can concentrate on image capture, letting the camera make the most effective IS settings to prevent blur.



### RAW Image Capture

The PowerShot G1 X, G15 and S110 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 practically without image degradation.



### Enhanced Camera Operation

Features like the Vari-angle PureColor System LCDs as well as the touch panel PureColor System LCD and control ring bring a new level of customization to the photographic process. With a Vari-angle PureColor System LCD, it's simple to compose and shoot with the camera in almost any position, while a capacitive touch panel, found on the S110, makes shooting more intuitive. Built-in Wi-Fi<sup>®</sup>, found on the S110, allows easy sharing of images to CANON iMAGE GATEWAY<sup>#</sup>, social networking sites, and other Wi-Fi equipped PowerShot cameras and iOS or Android devices. It also allows for wireless printing to a Wi-Fi compatible printer<sup>^</sup> and can also add GPS<sup>+</sup> data, recorded on your iOS or Android smartphone<sup>++</sup> with the Canon CameraWindow app\*, to images in camera.



\* This software enables you to upload images to social network services. Before uploading images, please be aware that image files may contain privacy related information such as people and places. If necessary, please delete such information. Canon does not obtain, collect or use such images or any information included in such images through this software.  
<sup>#</sup> One-time registration is required on CANON iMAGE GATEWAY.  
<sup>^</sup> DPS over IP certified printer is required.  
<sup>+</sup> In certain countries and regions, the use of GPS may be restricted. Therefore, be sure to use GPS in accordance with the laws and regulations of your country or region. Be particularly careful when traveling outside your home country. As a signal is received from GPS satellites, take sufficient measures when using in locations where the use of electronics is regulated. Cellular data charges may apply.  
<sup>++</sup> Compatible with iOS version 4.3 or later and Android devices version 1.1.1.11 or later. Data charges may apply.



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# PHOTO PRINTER TECHNOLOGY

Built upon a foundation of leading-edge technologies, the EOS System puts photographers in touch with their mind's eye, enabling them to capture images of beauty and clarity that had once existed only in their imaginations. Canon's commitment to photographic excellence, however, does not end with image capture. Combining Canon's superb expertise in photography, photocopying and printing technologies, Canon imagePROGRAF and PIXMA photo printers are redefining output quality, performance and convenience. They are the perfect complement to your EOS System with results that are nothing short of stunning!



PIXMA PRO-100

PIXMA PRO-1

imagePROGRAF IPF6450

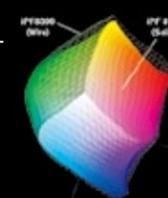


## imagePROGRAF Printer Technology

Photographers seeking to produce their own gallery-grade inkjet prints have had limited choices until now. Understanding the demands of professional photographers — especially those who shoot with the EOS System — Canon has responded with the imagePROGRAF series Photo Printers. The imagePROGRAF printers feature impressive new technologies that bring superb quality and performance to large format photo printing. It's never been simpler or more cost-effective to produce gallery-grade prints at home or in the studio.

## LUCIA ink

**Incomparable 12-Color LUCIA EX Ink Set**  
With increasing consumer demand for professional and high quality print output, high-end graphic and photographic studios continue to seek the capability to accurately produce vivid output of their most demanding projects. The 12-Color LUCIA EX pigment ink set from Canon, incorporated into the 60-inch iPF9400, 44-inch iPF8400, 24-inch iPF6450/6400 printers, increases the achievable color gamut by approximately 20 percent when compared to our previous LUCIA ink. The LUCIA EX ink set provides photographers with the ability to precisely achieve their desired results by producing more expressive and crisp blacks, smooth color gradations, and the capability to faithfully reproduce the finest details in the shadowed areas of photographs. Even very delicate shading is reproduced smoothly to give images exquisite depth.



Canon RC Photogloss L=50

The pigment inks are also designed with an innovative polymer structure that results in greater scratch resistance and protection from color fading, while also reducing bronzing and metamerism, ensuring durable, stable output. Additionally, LUCIA EX pigment inks exhibit excellent short-term color drift ("dry-down") behavior, which is critically important for color-managed workflows and in proofing applications. The LUCIA EX inks are also resistant to damage from atmospheric ozone, a particular concern in urban environments in situations where prints might be displayed unframed and exposed to ambient indoor air.



LUCIA EX 12-Color Ink Set

## Automatic Color Stability Control System

All imagePROGRAF printers offer a sophisticated, automatic color stability control system for simple, predictable color. With a high-performance multi-sensor installed in the printer, calibration is done easily and quickly (approximately 10 minutes) with a simple setup from the printer's operation panel. When calibrated, photographers will find amazing consistency among all calibrated printers they might use. Canon's imagePROGRAF color calibration will help ensure that the colors photographers saw when they captured their images, and on their calibrated computer screens will be preserved in print.

## Photolithographic User-Replaceable Print Heads

Canon's FINE (Full-photolithography Inkjet Nozzle Engineering) print heads help ensure accurate and detailed ink delivery, no matter the medium being used for printing. This new, advanced head design uses two print heads — each with 15,360 nozzles — yielding over 30,000 nozzles, which release microscopic ink droplets quickly and precisely. This not only makes extremely high output resolution simple, but also provides for faster, more reliable printing. Photographers no longer need to compromise on print speed to attain high image quality because Canon's superb print head technologies deliver both. The large number of nozzles also substantially increases print head life, so the printer requires less frequent maintenance. The print heads are user replaceable, and



Multi-nozzle Dual Print Heads

can be replaced with minimal downtime and without service calls, saving time and money and increasing productivity.

## 16-Bit Printing Support

While conventional inkjet printers support 8 bits per-channel and require a conversion from 16 bits somewhere during the workflow, the imagePROGRAF printers provide advanced support for high-bit depth files. Software Plug-ins enable high-bit depth images to be printed directly from Digital Photo Professional. Also included is an export module for printing 16-bit files directly from Adobe® Photoshop®. These



features provide the photographer with the first true wide-dynamic-range workflow option from capture to output. Images are reproduced with smoother tonal gradations for greater photorealism. Dynamic-range-related problems, such as posterization and banding, are significantly reduced.

Exclusive Canon L-COA Image Processor

	<b>High Performance &amp; Integration</b> Integrated System & Engine Control
<b>High Speed Engine Control</b> High Accuracy & High Speed Control of High Density Head	<b>High Fine Image Process</b> Integrated System & Engine Control



©Lewis Kemper

**Automated Black Ink Cartridge Switching**

The ink set includes both black and matte black cartridges to allow printing on glossy photo paper and matte paper respectively without switching cartridges and needlessly wasting ink. Other printers require the user to perform an inconvenient and wasteful manual operation to flush unused ink and switch cartridges. However, with the Canon imagePROGRAF Printers, both black ink cartridges are loaded and live at all times, so switching between media types is performed efficiently with a simple push of a button.

**Optional SU-21 Spectrophotometer for iPF6450 Printer**

The optional SU-21 Spectrophotometer for the iPF6450 printer can be used for color calibration of different types of media; color checking of discrepancies in individual Lab value measurements; and the color measurement of charts used to create profiles. Used in conjunction with commercial profile creation software, the SU-21 spectrophotometer unit can also create printer driver ICC profiles. The Canon system incorporates a Color Calibration Management Console for a centralized management of color stability among multiple printers.

**Vast Output Media Selection**

The imagePROGRAF Printers support a wide range of paper and specialty output media, such as resin coated photo paper, canvas and fine art paper.



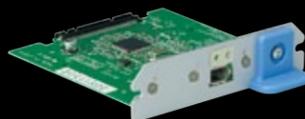
Roll Paper

**Automatic Head Clog Detection**

Canon's sophisticated nozzle clog detection system automatically senses non-firing nozzles and executes a print head cleaning cycle as required. Should a clogged nozzle fail to recover after cleaning, the system automatically compensates by substituting other functioning nozzles. This minimizes print-head-related output failures, reduces paper waste and improves print head reliability, saving photographers both time and money.

**Advanced Connectivity**

The imagePROGRAF printers are equipped with USB 2.0 Hi-Speed and Ethernet interfaces. The printers also feature excellent multi-platform support, helping to enable seamless integration with a wide variety of hardware and workflow configurations.



**PIXMA Printer Technology**



**PIXMA**

Canon's PIXMA photo printers bring life to images taken with EOS cameras. With the PIXMA PRO-1 Professional Inkjet Printer, Canon has entered the realm of fine art printing while remaining true to the Canon quality and speed photographers everywhere know and trust.

**12-color LUCIA Pigment-based Ink System**

The PIXMA PRO-1 Printer has 12 color ink set consisting of six color inks: Cyan, Magenta, Yellow, Photo Cyan, Photo Magenta and red; Five monochrome inks: Photo Black, Matte Black, Dark Gray, Gray and Light Gray plus a Chroma Optimizer. The LUCIA pigment ink system not only produces exceptionally beautiful prints, it offers incredible stability and longevity\*—an estimated 200 years album life, lightfastness of approximately 60 years when printing on Canon Photo Paper Pro Platinum, and approximately 70 years when printing on Canon Photo Paper Plus Semi-Gloss (Testing done by Wihlem Imaging Research. Prints Frame Under Glass (with 5mm gap). Plus, with 12 individual ink tanks, users can replace a single tank, reduce waste and save money.



**Chroma Optimizer**

The Canon Chroma Optimizer, found on the PIXMA PRO-1 Printer, enhances the LUCIA pigment inks with a uniform standard of glossiness and tonal continuity on the print. A clear coat "ink" that is applied over the printed image, Chroma Optimizer fills in surface irregularities and reduces the difference in height among ink droplets. The improved surface reflection produces a more uniform glossiness, enhanced black density and expanded color gamut. The Chroma Optimizer also reduces bronzing and delivers more balanced color.

**Five Monochrome Inks**

For black and white prints of uncompromising quality, The PIXMA PRO-1 Printer uses five monochrome inks—black, Photo Black, and three different shades of gray to help ensure smooth gradations and natural tones. These include light gray ink, which helps to suppress graininess, especially in highlight areas where graininess is often most noticeable; gray, for gray balance adjustment and reduced graininess in mid tones; dark gray for smoother gradations; photo black for enhanced contrast; and matte black for enhanced density (especially on

Fine Art Papers). Chroma Optimizer enhances the PIXMA PRO-1 Printer's monochrome inks by reducing surface reflection on prints, showcasing detail and richness in darker areas of the composition.

**Large-volume ink tanks**

For higher levels of productivity and less ink tank replacement, the PIXMA PRO-1 Printer features ink tanks with 2.5x the capacity of those used by the PIXMA Pro9500 Mark II Printer\*. A separate, improved print head, plus sub-tank and tubular ink supply systems have been updated to work together seamlessly with incredible printing efficiency. By moving the ink tanks off of the print head the printer is able to operate much faster and more efficiently.

**FINE Technology Print Head with 12,288 Nozzles**



The PIXMA PRO-1 Printer's amazing FINE (Full-photolithography Inkjet Nozzle Engineering) print head delivers professional quality prints with fine detail and a high resolution of 4800 x 2400 dpi max. Thanks to the FINE print head's microscopic ink nozzles, 1024 per color, 12,288 nozzles in total, ink droplets can be placed with a pitch of 1/4800 inch at minimum, resulting in detailed, precise, smooth and glossy prints with exceptional longevity\*.

**Three Color Modes Including New Photo Color Mode**

The PIXMA PRO-1 Printer has three distinct color printing modes, has a default color mode tailored to professional photographer's requirements. Linear Tone mode, the printer's default mode, accurately reflects the image while adjusting for optimal gradation. ICC Profile mode prints faithfully to the photographer's previously chosen image characteristics, whether Adobe RGB (1998) or the Picture Style setting as recorded in the camera. Photo Color mode, the default mode on previous printers, places emphasis on a punchy, optimized look by emphasizing blues and greens. While not as "realistic" as other print modes, Photo Color mode delivers prints often in line with perceived color as remembered by the viewer.

**OIG System**

The Optimum Image Generating (OIG) system improves the PIXMA PRO-1 Printer's prints by determining the optimal mix of inks and placement of ink droplets. It analyzes colors in the image and calculates the most desirable results for the chosen print mode and media, taking into account color reproduction, tonal

gradations, density of blacks, graininess and glossiness of the print. Superior results are obtained due to the precise placement of ink droplets, combined with the printer's phenomenal range of inks and the Chroma Optimizer.

**Support for 1200ppi Input**

Few inkjet printers can take advantage of the improved resolution in today's digital cameras. The PIXMA PRO-1 Printer can make full use of 1200ppi image data for improved reproduction of fine lines and smoother, less jagged edges. When images are processed at 1200ppi through compatible software like Adobe Photoshop or Easy PhotoPrint Pro then printed through the PIXMA PRO-1 Printer, the difference in fine detail is nothing short of remarkable.

**Color Conversion Algorithm**

This determines the optimum balance of ink mixing for each print mode and media by carefully calculating the best results using various factors of the image such as color reproduction, graininess, uniform glossiness, reduced metamerism and anti-bronzing effect.

**Real-time Ink Ejection Control**

By controlling the volume of ink ejected at all times, the PIXMA PRO-1 Printer stabilizes the printing color and maintains ink density regardless of temperature fluctuations.

**Easy-PhotoPrint Pro Software**

Canon's Easy-PhotoPrint Pro (EPP Pro) software plug-in for Digital Photo Professional, Adobe® Photoshop® and Adobe® Photoshop® Elements® provide an intuitive photo printing experience. EPP Pro has layout options such as pattern prints, contact prints and prints with shooting information. It also allows for color adjustments, including ICC Profile-based color management, Linear Tone, Photo Color, monotone printing and grayscale printing, and all settings can be saved. PIXMA Pro printers also incorporate the Ambient Light Correction functionality that helps ensure consistent color regardless of the different lighting conditions in which a printed image is viewed.

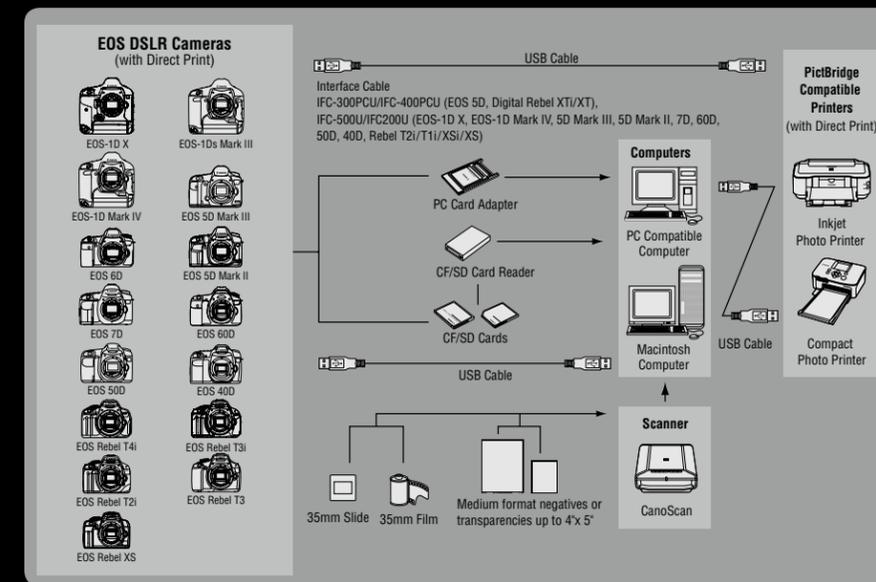
**PictBridge**



Shoot digital, print direct. It's a fast and easy way to print pictures on the spot without a computer. Just connect any PictBridge-compatible printer to a digital camera and print.



PIXMA PRO-1



\* Based on accelerated testing by Canon in dark storage under controlled temperature, humidity and gas conditions, simulating storage in an album with plastic sleeves. Canon cannot guarantee the longevity of prints; results may vary depending on printed image, drying time, display/storage conditions, and environmental factors.

\* The PRO-1 ships with a full set of cartridges. When installing the ink tanks in the PRO-1 for the first time, part of the ink from the first set of cartridges is used for priming the printer. The number of sheets that can be printed with the first tank is less than succeeding cartridges.

‡ Based on accelerated dark storage testing by Canon under controlled lighting, temperature and humidity conditions. Canon cannot guarantee the longevity of the prints; results may vary depending on printed image, display/storage conditions and environmental factors.

## Photo Printing Redefined

Canon imagePROGRAF and PIXMA PRO printers deliver professional and lab-quality prints of images taken by EOS DSLR cameras with convenience and speed. With the latest ink sets and technology that improve the quality of color and black-and-white prints, Canon's latest imagePROGRAF and PIXMA PRO photo printers have redefined professional photo output.



©Bruce Dorn

 imagePROGRAF iPF9400 /  imagePROGRAF iPF8400

 imagePROGRAF iPF6450 /  imagePROGRAF iPF6400

### LUCIA EX 12-Color Pigment Ink Set for Professional Color Reproduction.

The Canon imagePROGRAF iPF9400/iPF8400/iPF6400/iPF6450 large format printers designed for professional image-makers seeking the highest standards for quality-control and image reproduction. With 30,720 nozzles for exacting detail, a vast color spectrum is produced by the 12-color LUCIA EX pigment ink set, creating expressive, crisp blacks, smooth color gradations and the capability to reproduce the finest details in the shadow areas of photographs.



©Adam Jones

### imagePROGRAF iPF5100

#### Superb Color Reproduction with Canon's LUCIA 12-Color Pigment Ink Set.

With Canon's imagePROGRAF iPF5100, no-compromise large-format, fine art printing is incredibly easy. Canon's exclusive LUCIA 12-color pigment ink set yields a tremendous range of colors and grays. For smooth, detailed color and black and white images, no matter the media. Canon's FINE photo-lithographic heads help to ensure accurate plotting of even the fine details thanks to over 30,000 nozzles. Matte Black ink and Black ink cartridges are both loaded in the printer at the same time, enabling automatic switching without wasting time or ink.

## PIXMA PRO-1

### Fine Art on the Desktop.

The PIXMA PRO-1 Professional Inkjet Printer delivers amazing results for archival quality fine art printing, right at your desk. Complete with an up to 4800 x 2400 dpi FINE technology print head and 12 large individual tanks using LUCIA pigment inks, the PIXMA PRO-1 Printer produces long-lasting lightfast<sup>1</sup> prints quickly and easily. It features 5 monochrome inks for phenomenal black and white prints, a Chroma Optimizer to help produce prints of great tonal range and surface, and can print up to 13" x 19" fast.



©Darrel Gulin



## PIXMA PRO-100

### Wireless<sup>2</sup> Versatility, Professional Quality.

Capable of quickly printing lab-quality prints up to 13" x 19", the Canon PIXMA PRO-100 wireless printer offers the perfect combination of speed and versatility. Its FINE print head generates a maximum resolution of 4800 x 2400 dpi and ChromaLife 100+ dye based inks create long lasting<sup>1</sup>, beautiful photos. Three monochrome inks help deliver smooth gradations and stunning black and white prints, and the OIG System is designed to select the best combination of inks to reproduce colors as you expect to see them.



## PIXMA MG8220

### Wireless<sup>2</sup> Printing and Scanning Solution with Features that Inspire.

Exceptional quality, versatility and ease-of-use, combined with high-speed is what makes the PIXMA MG8220 Wireless Photo All-In-One the printer to have. The beautiful Intelligent Touch System allows you to effortlessly operate your machine with gorgeous touch-sensitive controls, and the built-in film scanning unit allows you to scan in slides and film with ease. Also enjoy built-in wireless capabilities that let you print and scan wirelessly from almost anywhere around the house and more.

## PIXMA iP100

### High Quality and Portable.

Up to 9600 x 2400 color dpi<sup>3</sup> with microscopic droplets as small as 1 picoliter, print a 4" x 6" photo in approximately 50 seconds<sup>4</sup>, and your photo can be enhanced with Auto Image Fix. The PIXMA iP100 Mobile Printer is also capable of printing wirelessly via IrDA<sup>5</sup> or optional Bluetooth<sup>6</sup>.



<sup>1</sup> Based on accelerated testing by Canon in dark storage under controlled temperature, humidity and gas conditions, simulating storage in an album with plastic sleeves. Canon cannot guarantee the longevity of prints; results may vary depending on printed image, drying time, display/storage conditions and environmental factors.

<sup>2</sup> Wireless printing requires a working network with wireless 802.11b/g or n capability. Wireless performance may vary based on terrain and distance between the printer and wireless network clients.

<sup>3</sup> Resolution may vary based on printer driver setting. Color ink droplets can be placed with a horizontal pitch of 1/4800 inch or 1/9600 inch at minimum.

<sup>4</sup> Photo print speeds are based on the standard mode driver setting using photo test pattern(s) and select Canon Photo Paper and will vary depending on system configuration, interface, software, document complexity, print mode, types of paper used and page coverage. Copy speeds will vary depending on system configuration, interface, software, document complexity, print mode, types of paper used and page coverage. See [www.usa.canon.com/printspeed](http://www.usa.canon.com/printspeed) for additional details.

<sup>5</sup> Requires mobile phone or other device with IrDA port and the phone positioned no more than 7.9 inches from the printer.

<sup>6</sup> Bluetooth v2.0 with optional Canon Bluetooth Unit BU-30. Bluetooth operation depends on the devices and software version used. Operating distance is approximately 10 meters but may vary due to obstacles, radio signals, locations where radio interference occurs, magnetic fields from microwave ovens, device sensitivity and/or antenna performance.



# REALiS



## Canon REALiS Technology Goes to Work for Professionals

### Technology Designed to Meet Professional Demands

Canon has created the REALiS line of multimedia projectors to meet the exacting demands of professionals in fields ranging from medical education to the fine arts. Used everywhere from corporate boards and conference rooms to classrooms, photo galleries, and houses of worship, from the largest venues to the most intimate spaces, REALiS projectors have the technology professionals need built right in. Incorporating LCOS (Liquid Crystal on Silicon) technology, genuine Canon optics and Canon's high-accuracy color management system into our patented AISYS (Aspectual Illumination System) Optical Engine, Canon REALiS projec-

tors are able to reproduce even the subtlest hues and color gradations. High resolution, bright illumination and quiet performance deliver compelling presentations that get the job done. For professional performance, true-to-life color reproduction and unmatched clarity, there is no substitute for REALiS.

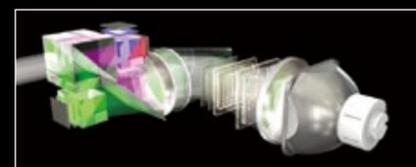
### The LCOS Advantage

LCOS (Liquid Crystal on Silicon) Technology delivers the highest standard in projector image quality. Lattice-free, seamless photo reproduction and smooth, film-like quality video are projected with realistic colors and intricate detail down to the smallest text. Thanks to the fast response time of LCOS

panels, high definition video leaps off the screen with impressive quality and integrity. The advantages of LCOS are easy to see for presenter and audience alike: images and video with rich color, deep contrast and sharp resolution.

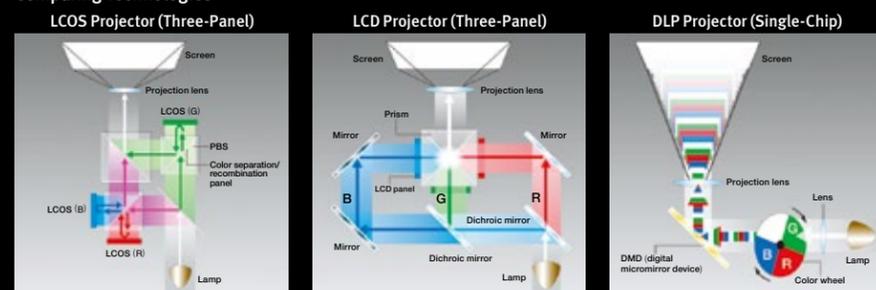
### The AISYS Optical Engine

Canon's proprietary AISYS Optical Engine enhances image quality by maximizing the performance of the LCOS panels and equalizing light from the projection lamp. This results in notable brightness, high contrast and exceptional color reproduction. Designed for optimal performance at a minimal size, the AISYS Optical Engine allows for compact, lightweight, cost-effective projectors. Canon has continued to improve the optical elements



incorporated into the AISYS optical engine. The uniformity of light has been enhanced to further optimize image quality, and the Polarizing Beam Splitters (PBS) (integral parts of the color separation and recombination system) have been redesigned to achieve more precise light control. REALiS projectors set an entirely new standard in bright, beautiful, high-definition, high-contrast images.

### Comparing Technologies



Light from the projector lamp is separated into red, green and blue, and then reflected from each of the three LCOS panels. The separated light is then recombined by the polarized beam splitter. Since the light is reflecting from the LCOS panels, there is virtually no "screen door" effect.



Light from the projector lamp is separated into red, green and blue, then passed through each of the three LCD panels. The separated light is then recombined by a prism. The light passes through the LCD panels as small dots, which tend to create a lattice-like pattern on the screen.



A constantly rotating color wheel reflects red, green, blue, and white image components off a micro-mirror device to produce the projected image. The three primary colors are sequentially displayed and synthesized in the viewer's brain to produce images perceived as full color.

## Digital Photo and Video Projection

Canon high-resolution REALiS projectors use LCOS technology to display all the detail and texture captured by your digital camera – projecting sharp, seamless images with film-like quality. Equipped with advanced color management settings, REALiS projectors have everything needed to display photos and videos with exceptional color and accuracy, all in a compact unit.



**REALiS WUX5000 / WUX4000 / WX6000 / SX6000**  
MULTIMEDIA PROJECTOR

### High Resolution and Exceptional Detail for Large Venues

The REALiS WUX5000, WUX4000, WX6000 and SX6000 are high-performance projectors featuring Canon's AISYS-enhanced LCOS technology and Genuine Canon lenses to deliver rich, seamless images with exceptional color reproduction. They offer superb resolution of up to WUXGA (1920 x 1200) resolution, an impressive degree of brightness – from the 4000 lumens of the REALiS WUX4000 to the spectacular 6000 lumens of the REALiS SX6000 – to interchangeable lenses, powered vertical/horizontal lens shift, and a full set of input/output terminals.



**REALiS SX7 Mark II**  
MULTIMEDIA PROJECTOR

### High Brightness and Astounding Color Reproduction

The Canon REALiS SX7 Mark II projects true-to-life, razor-sharp images with exceptional color reproduction. This model features a special Adobe RGB Color Match System, making it ideal for photo studios, art museums and galleries. Other features of this powerful projector include the Canon AISYS-enhanced LCOS technology, superb 1.7x optical zoom lens, bright 4000 lumens, and SXGA+ (1400 x 1050) high resolution.

**REALiS WUX10 Mark II**  
MULTIMEDIA PROJECTOR

### High Definition and Optical Excellence

With cutting-edge WUXGA high-definition resolution (1920 x 1200) and a superb degree of brightness at 3200 lumens, the widescreen REALiS WUX10 Mark II adds impact to any presentation. Canon proprietary AISYS-enhanced LCOS technology, a high-performance 1.5x optical zoom lens and full 10-bit processing ensure outstanding color reproduction and razor-sharp projected images. It offers versatile connectivity, including an HDMI port (version 1.3 deep color), a DVI-I input and a built-in RJ-45 network connection for remote management.



**REALiS SX80 Mark II**  
MULTIMEDIA PROJECTOR

### Amazing Versatility and Performance

Delivering 3000 lumens brightness, SXGA+ (1400 x 1050) resolution, Canon AISYS-enhanced LCOS technology and a 1.5x optical zoom lens, the Canon REALiS SX80 Mark II produces exceptionally accurate images. Other features include a built-in USB port that allows "PC Free" presentations and PictBridge compatibility, an HDMI terminal (version 1.3 deep color) for projection of high-quality digital images and 1080p video, and a built-in RJ-45 network connection for remote management.

# Canon Digital Learning Center

Canon's collaborative effort with professional imagemakers, the Canon Digital Learning Center (CDLC) is an on-line educational resource designed to help users evolve and advance their skills. From information on a variety of Canon imaging equipment to tips on composition, lighting, video and printing techniques, the CDLC informs and inspires at every step to help give your projects a sleek, professional-looking polish. Simply visit [learn.usa.canon.com](http://learn.usa.canon.com) and get started today!



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Mobile Friendly

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Video Knowledge Base

Galleries

## Expand Your Knowledge

The CDLC is free and open to the public, easily accessible anytime, anywhere via the Internet, using a personal computer or a mobile device. For the pros and by the pros, yet a valuable resource for all skill levels, the CDLC covers topics of interest to advanced amateurs and professional users of Canon imaging products. Continuously updated, the CDLC contains an ever-growing collection of practical information with time-saving navigation and search tools that help you find what you need quickly and easily.

Expand your product and software knowledge and gain proficiency through tutorials written by experts. Watch How-To videos on a wide variety of imaging



Speedlite Tutorials Gallery

topics, including equipment and techniques. Visit galleries to be inspired by some of the world's most eye-catching and history-making still and motion images.

The Tips and Techniques section, written by professionals, instructs on how to make the most of your Canon professional equipment, from DSLRs and HD video cameras to large-format printers, to create a spectacular end-product. Download QuickGuides that you can print and take with you for study and reference. Go behind the scenes at professional photo and video shoots and learn by watching the nation's greatest imagemakers practice their crafts. Gain valuable insight from interviews with top pros.

For those who want to go beyond online learning, the CDLC also hosts a Sponsored Events Calendar. Users can browse through a comprehensive selection of workshops,



Camera Tutorials Gallery, and Sample Tutorial Video

seminars, lectures and trade shows throughout the country. All combined, the CDLC is an extraordinary resource for pure inspiration and technical mastery of your Canon professional imaging products.

# Canon Live Learning

Canon Live Learning (CLL) presents exclusive on-site educational experiences offered around the country delivering dynamic learning opportunities for enthusiasts and professionals through workshops and high quality hands-on classes. Led by industry experts and professional photographers, including Canon's Explorers of Light, you will gain both technical and creative expertise through these exciting programs.



For current course offerings and behind the scenes videos of our workshops, visit: [usa.canon.com/canonlivelearning](http://usa.canon.com/canonlivelearning)

## Learn from the Pros

**For Professionals**  
For professionals, CLL offers high-level instruction based on achieving results. Canon provides professional imagemakers with the educational resources needed to stay in touch with industry demands across the country, including the new Canon Hollywood Professional Technology & Support Center. With instruction from industry pros, discover new creative and technical opportunities made possible by EOS HD-capable DSLRs. Our hands-on intensive workshops are designed for video and film professionals who want to master the cinematographic capabilities of the EOS HD DSLR, as well as still photographers looking to expand their professional offerings to the moving image. New professional offerings are always in development for our range of still, print and moving imagemakers.

**For Enthusiasts**  
Canon brings enthusiasts to a new level of experience with single-day and weekend immersion events to optimize creativity. Canon's inspirational Explorers of Light and other industry professionals lead workshops



Canon Live Learning: Workshops and Classes page

and seminars, teaching enthusiasts the keys to maximizing their personal vision through field proven techniques and creative insights. Overviews on HD Video and Canon Speedlites lay the groundwork for a broad range of technical and creative skills aligned to your personal style. For the adventuresome enthusiast, Canon combines some of the most beautiful and exciting locations in the USA with our elite Explorers of Light instructors for the EOS Destination Workshops. These intimate two-day workshops take the CLL experience into the field. Past workshop locations have included Arches and Yosemite National Parks, surfing competitions in California, and thoroughbreds in the historic racetracks of Kentucky.



## World Class Service and Support For Professionals.

State-of-the-art, high-quality, easy to use – these describe Canon’s service and support programs just as accurately as they do Canon’s products. Whether you’re an individual or represent a large enterprise, your needs are critical, which is why Canon provides unique customer service and support programs specifically for professionals. Flexible and customized service offerings and membership programs designed to meet your needs and your budget give you access to 24/7 technical support at our 100% U.S.-based call center, factory-trained service technicians, genuine Canon parts, a nationwide service network including the Canon Hollywood Professional Technology & Support Center, loaner equipment...and much more.



Canon’s team of service and support professionals is here to assist you to get the most out of your Canon products and to support you whenever you need it. You are never on your own.

### Focused on Professionals.

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- Fast Repair Processing & Available Loaner Equipment
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- Team of Industry Experts
- Industry-Leading Response Times
- In-House Studio Test Environment
- 24/7 Support Available
- 100% US-Based

### Custom Service Programs.

Canon’s custom service programs are designed for professionals with even the most critical uptime requirements and high priority needs, and provide extensive service and support benefits to keep your business up and running.



Canon Professional Services (CPS)



Canon Professional Production System (PPS) Support Pack for Cinema Professionals



Canon CarePAK and CarePAK PRO for Professional Inkjet Printers



Canon Corporate Services

### RECOGNITION FOR EXCELLENCE

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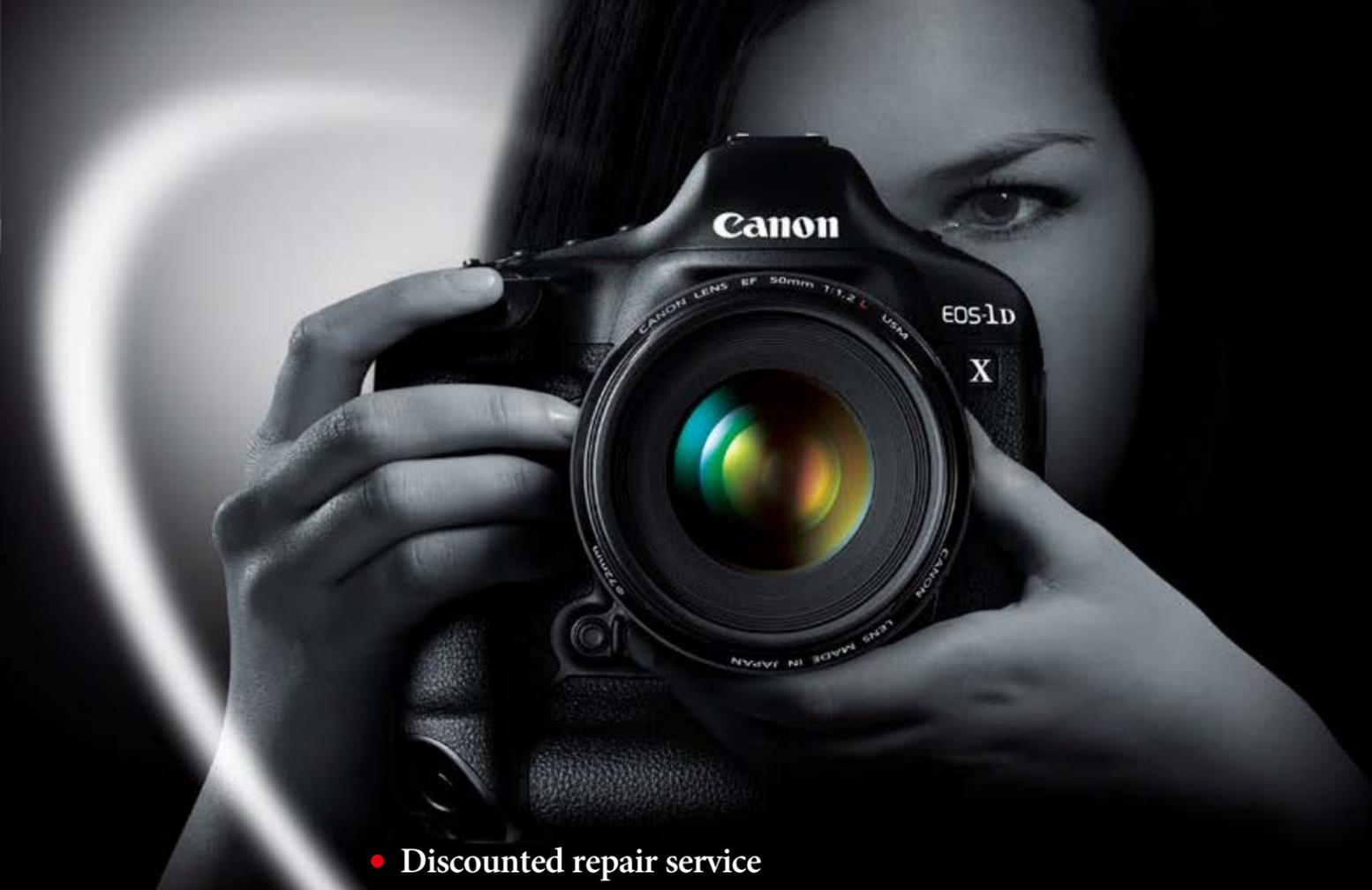


Canon Digital Cameras



Canon Printers

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- Discounted repair service
- Expedited repair turnaround
- Equipment evaluation loans
- 24/7 U.S.-based domestic & international\* hotline
- On-site support at major events and shows

## Personalized Support for the Imaging Professional.

Canon Professional Services (CPS) provides significant membership benefits to individual working professionals who use qualifying Canon equipment.

Substantial discounts are applied to repairs sent in under a Gold or Platinum membership.

Members will also enjoy substantially reduced repair downtime with 2- or 3-day turnaround on most repairs depending on membership level.

Canon understands the need for professional image makers to have a “try before you buy” program. This unique evaluation loan program helps you save valuable time and money on essential purchases (available to Gold & Platinum members only).

Canon’s highly skilled and US-based support agents are available around-the-clock to help you with any technical issues that may arise. Members can also enjoy exclusive on-site service and support at select sporting events, trade shows, and educational events.

Not a member? Learn more at: [cps.usa.canon.com](http://cps.usa.canon.com)

\*For US-based customers only.

