

# Canon

# EOS

# System



[usa.canon.com/eos](http://usa.canon.com/eos)

VOL. 5.01

# Master Your Moment

For creative individuals, inspiration can strike in an instant. With the right equipment, it can help you capture stunning moments that express your creativity. Canon EOS cameras, along with EF and EF-S lenses as well as accessories are tools designed to complement various shooting styles, and to help you achieve the very best in still and moving image capture. For inspired performance, whether in the hands of a beginner, a professional and everyone in between, capture what you envision with the EOS System.



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“ One of the many benefits of the Canon full-frame CMOS sensor is the ability it gives me to shoot handheld in extreme low-light conditions. Even when shooting at a very high ISO, I can still capture stunning results with little to no noise. ”



Onne van der Wal  
Explorer of Light

©Onne van der Wal

# 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 camera advancements endure because they are designed to 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.

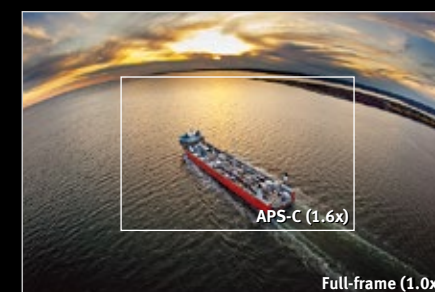


## Canon CMOS Sensor

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 superbly clean image data and help reduce power consumption by as much as 90%. Data transfer speeds are increased by using multi-channel signal paths that help dramatically improve the camera's responsiveness. Canon's CMOS sensors incorporate an 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 help isolate false colors that the sensor may detect. Then, Canon's own **DIGIC** Image Processor helps 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 critical photo or video applications.



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



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

## Full-frame Canon CMOS Sensor

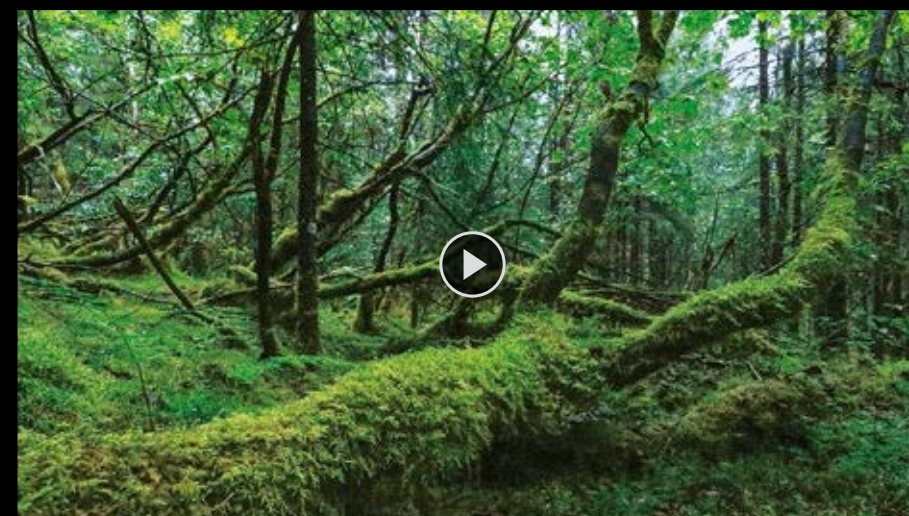
The Canon-manufactured full-frame CMOS sensor delivers professional performance with digital convenience. EOS DSLR cameras with full-frame sensors do not require a focal length conversion factor common to other DSLR cameras on the market. Instead, these cameras deliver the same angle-of-view as 35mm film cameras, so the working distance to the subject, with a given lens, is the same as it would be on film. 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.

## Extensive ISO Range\*

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

## Effective Light-gathering

The EOS-1D X camera's sensor has 18.1 effective megapixels with individual 6.95µm pixels, the EOS 5DS and EOS 5DS R cameras have a 50.6 megapixel sensor with individual 4.14µm pixels, the EOS 5D Mark III camera has a 22.3 megapixel sensor with individual 6.25µm pixels, and the EOS 6D camera has a 20.2 megapixel sensor with individual



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.

\* Standard output sensitivity. Recommended exposure index.

6.55µm pixels. An advanced S/N ratio plus a photodiode structure with an increased photoelectric conversion rate of sensor on these EOS cameras help increase 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 6/5+/5/4 Image Processor

Designed to help maximize performance between the capture and recording stages of digital photography, the **DIGIC** Image Processor uses advanced signal processing technologies to help enhance image quality and deliver a more intuitive, responsive camera. The **DIGIC 4** Image Processor enables Face Detection AF, Live View composing, and Full HD video recording.



Dual DIGIC 6 Image Processors (EOS 7D Mark II)

The speedier **DIGIC 5** Image Processor makes advanced functions possible like HDR Backlight Control and Creative Filters, and can support compensation for chromatic aberration in both still and moving images. The **DIGIC 5+** Image Processor extends performance to greater levels of noise reduction at higher ISOs, while Dual **DIGIC 5+** Image Processors add lightning-fast speed. Dual **DIGIC 6** Image Processors provide turbocharged features like noise-reduction processing at ISO 16000, more precise EOS iTR AF and tracking of faces during Live View and movie shooting, and enabling the camera to record Full HD video at 60 fps.

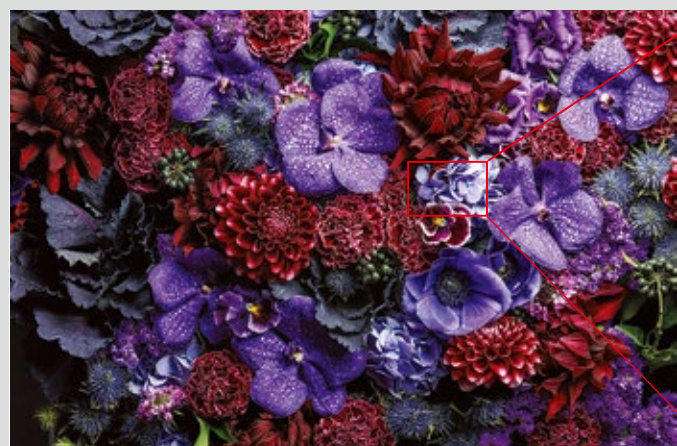
50.6 MEGA  
PIXELS

## New 50.6 Megapixel Full-frame CMOS Sensor



## Dual Pixel CMOS AF

### A Revolution in Autofocus Unlocks the Potential of Live View



#### Ultra-high Resolution Images

At 50.6 Megapixels, the EOS 5DS and EOS 5DS R cameras offer the highest resolution available in the entire EOS lineup. It captures 8712 x 5813 effective pixels, delivering images with an unprecedented level of realism perfect for large-scale commercial printing, fine art, significant crops and any number of other high-end purposes.



#### Refined Details at the Pixel Level

The EOS 5DS R camera has a low-pass filter (LPF)\* effect cancelled to take full advantage of the original resolving power of the camera's 50.6 Megapixel sensor. More detail is captured and retained in the original image, perfect for landscape and commercial applications where pixel-level detail and sharpness are desired.

#### New Fine Detail Mode in Picture Style

Taking advantage of the 50.6 Megapixel sensor, Fine Detail mode has been added to Picture Style for the EOS 5DS and EOS 5DS R cameras. Fine Detail maximizes the cameras' ability to reproduce exquisite details. When used, Fine Detail mode will emphasize an image's edges, patterns or textures to produce sharper results.



#### Shoot Video Like a Camcorder

Dual Pixel CMOS AF powers autofocus performance similar to that of a camcorder – but on a DSLR camera! Incredibly precise focus is achieved quickly and over a large area of the frame. Focus transitions, as when acquiring focus or changing focus between subjects, are smooth and natural, reminiscent of how the human eye focuses. And once focus is achieved, Dual Pixel CMOS AF helps ensure that it stays locked in. Combined with the predictive power of Movie Servo AF and Canon Face Detection technology, even your rapidly moving subjects remain crisp and clear.



#### Realize the Freedom of Live View

Live View autofocus powered by Dual Pixel CMOS AF is phenomenally accurate and faster than ever. With the freedom of angle inherent to a Vari-angle LCD monitor (as featured on the EOS 70D digital SLR camera), you can comfortably and conveniently shoot more subjects, from more angles and vantage points, as the situation dictates – confident in the camera's ability to provide outstanding focus. Users can also take full advantage of Live View-only features like Touch AF and Touch Shutter for even more compositional freedom.



#### Compatible with Over 103 Canon EF Lenses

More than 103 Canon EF lenses are able to fully realize the benefits of Dual Pixel CMOS AF. Compatible lenses greatly expand creative and compositional possibilities so users can enjoy a wide range of endeavors made possible through various lenses whether shooting still images or video. Canon STM lenses help ensure quiet operation during video capture. In short, thanks to Dual Pixel CMOS AF, Canon's renowned optics can now combine with Live View and video capture as never before, offering expanded creative possibilities.

\*The possibility of moiré and color artifacts is greater due to the LPF cancellation function.

# 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.



**FULL HD**  
1080



## Artistic Capabilities with EOS Lenses

Canon EF and EF-S lenses offer an incredible selection of lenses (wide-angle, macro, super-telephoto, tilt-shift and fisheye) to complement the user's creative vision. With the flexibility to create images of great beauty and controlled depth-of-field, interchangeable lenses bring video shooting to a whole new level. The range of focal lengths is simply staggering. 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 a full size CMOS sensor and APS-C sizes, there's an EF or EF-S lens for everyone. No matter the videographer, no matter the situation, Canon lenses help ensure quality results.

## 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.

## Movie Servo AF

For accurate and steady focus during video shooting, Canon developed Movie Servo AF (select EOS cameras only). Movie Servo AF takes

advantage of the Hybrid CMOS AF systems on select EOS Rebel cameras, and the Dual Pixel CMOS AF system on the EOS 7D Mark II and EOS 70D cameras to lock focus on a subject with great speed and track it throughout the composition. Movie Servo AF automatically determines the distance of the subject as its position changes through the frame. On the EOS 7D Mark II and EOS 70D, Dual Pixel CMOS AF and Movie Servo AF work in concert to provide smooth and consistent autofocus tracking, even on fast-moving subjects. When cameras featuring Movie Servo AF (the EOS 7D Mark II camera has customizable settings for more control) are used with one of Canon's STM lenses, continuous AF performance is remarkably quiet and smooth.

## HDR Movie

The EOS Rebel T6s camera has an HDR movie mode that helps minimize blown-out highlights in high-contrast scenes. By alternatively shooting properly exposed and underexposed images at 60 fps, then generating 30 fps movies, the camera produces stunning videos with extensive color gradation, plus extensive highlight and shadow detail.

## Frame Rates

In select models, EOS Full HD video can be captured at 1920 x 1080 resolution, for up to 4GB per clip. Videos are saved as MOV files (the EOS 7D Mark II cameras can record in both MOV and MP4 formats, and at 50/60 fps) 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 can be easily defined with EOS cameras.

## MP4 Format

Select EOS cameras can now record videos in MP4 format. MP4 format provides video that is easily shareable, and compatible across smartphones, tablets and other mobile devices. Recording in MP4 format compresses the video into smaller sized files without affecting video quality.

## Movie Digital Zoom

On the EOS 70D and EOS Rebel T6s cameras, Movie Digital Zoom makes it possible to zoom from 3x to 10x while shooting video, helping add a dramatic effect to video clips.

## Movie Crop

The Movie Crop function (select EOS cameras) 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, or when it's impossible to get close to the action. Recorded as a VGA video, Movie Crop shots are perfect for emailing, posting online, or editing into other video clips.

## Video Snapshot

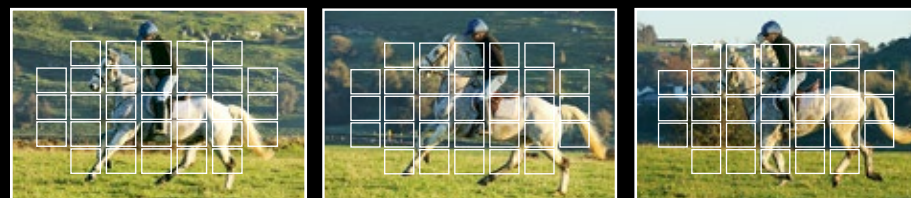
With the Video Snapshot feature (select EOS cameras) short video clips (of 2, 4 or 8 seconds) can be stitched together, in-camera, into one video file as a "snapshot album," perfect for sharing online, or displaying to an HDTV directly from the camera. Select EOS cameras feature advanced Video Snapshot that makes in-camera editing even easier: still images can be captured during video recording simply by pressing the shutter button, and video clips can be reordered or deleted in an album during playback. A wind filter on the EOS Rebel T6s and EOS Rebel T6i cameras helps reduce distracting audio noise during video recording.

## Advanced Video Recording Options

Select EOS DSLR cameras offer a choice between All-I, IPB and Light IPB compression and support 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. The FAT file system automatically splits files greater than 4GB, and creates a new file without interruption. Additional options include timecoding at all times (Free Run) or only during recording (Rec Run), which is useful for multi-camera shots.

## Light IPB Recording

Available on the EOS Rebel T6i and EOS Rebel T6s cameras, light IPB recording provides smaller size video files, while maintaining high image quality. These video files are easy to view and share on compatible smartphones, tablets and select social networking sites. Due to their smaller file size, videos recorded in light IPB mode can also be sent via a wireless network.



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



**EOS iSA System**

The 100,000-pixel RGB Metering Sensor with a dedicated DIGIC 4 Image Processor in the EOS-1D X camera helps deliver substantial improvements in evaluative ambient and flash metering. The sensor has 252 distinct zones, reducing 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. The EOS 5DS, EOS 5DS R, and EOS 7D Mark II cameras have an Intelligent Subject Analysis (ISA) system that employs an independent RGB light sensor with approximately 150,000-pixel resolution. With this sensor, not only do the cameras have a finer level of accuracy, but when combined with the cameras' iTR AF, they can track subjects with a significantly greater level of success. The EOS 5DS, 5DS R, and 7D Mark II also have an Anti-Flicker Shooting function that compensates for flickering light sources, taking shots only at peak light volume. This feature is useful for helping minimize disparities in color and exposure, especially during continuous shooting in sub-optimal lighting situations.

**Enhanced Live View Focusing**

Innovative AF systems also enhance continuous subject autofocusing and tracking in Live View shooting on select EOS cameras.

**Hybrid CMOS AF** combines phase and contrast detection AF to increase autofocus speed during Live View and video shooting on select EOS Rebel cameras. Hybrid CMOS AF is aided by pixels on the camera's CMOS sensor that assist in predicting subject location, making continuous focus tracking quick and accurate, while enhancing focusing speed. Performance capabilities are extended with a number of selectable zones. Hybrid CMOS AF II (EOS Rebel SL1 camera only) offers a widened focus area covering 80% of the image plane, vertically and horizontally, for increased focus accuracy and speed. The EOS Rebel T6s and EOS Rebel T6i cameras have Hybrid CMOS AF III for even faster and precise AF.

**FlexiZone Multi mode** divides the scene into 31 AF zones and uses special algorithms that give priority to the center and closer subject for focusing. Taking advantage of the touch screen LCD monitor featured on select EOS cameras, users can simply touch one of nine zones (center left, center right, center, center top, center bottom, and the four corners) and select it for automatic focusing. For selecting a single AF point, cameras with a touch screen also feature Touch AF.



Live View Multi-point AF (Zone select)



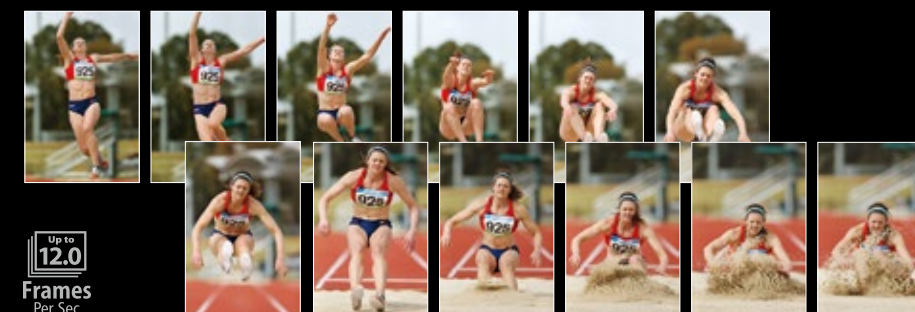
Touch AF

Face & Tracking Priority AF

**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 systems in the EOS-1D X and EOS 7D Mark II cameras combine fast data readout (16-channel and 8-channel, respectively), image processor speed (Dual DIGIC 5+ Image Processors and Dual DIGIC 6 Image Processors, respectively), speedier shutters and mirror systems that help to raise the performance bar for digital cameras. 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 balancers and two bounce-lock mechanisms, thus effectively controlling mirror bounce. This contributes not only to high-speed continuous shooting, but also to a stable viewfinder image plus greater AF and AE accuracy.



Up to 12.0 Frames Per Sec

**Up to 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.

\* The maximum continuous shooting speed is restricted to up 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 up to 10 fps.

† The EOS-1D X and EOS 5D Mark III firmware updates are available at: [usa.canon.com/cusa/consumer/standard\\_display/eos\\_1dx\\_firmware](http://usa.canon.com/cusa/consumer/standard_display/eos_1dx_firmware) and [usa.canon.com/cusa/consumer/standard\\_display/EOS5DM3\\_firmware](http://usa.canon.com/cusa/consumer/standard_display/EOS5DM3_firmware)

**Autofocus Technology**

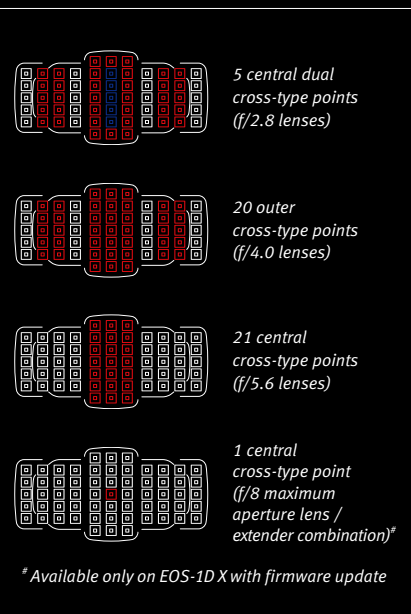
The EOS System leads the way in AF technology with multi-point AF systems that deliver a combination of accuracy and speed in diverse situations. The EOS-1D X, EOS 5DS, EOS 5DS R, and EOS 5D Mark III cameras are benchmarks in AF technology with a 61-Point High Density Reticular AF. The EOS 7D Mark II camera has a 65-point<sup>§</sup> all cross-type AF. These AF technologies improve tracking and are remarkably sensitive in low-light situations (the EOS-1D X, 5DS, 5DS R, and 5D Mark III offer EV -2 for a central point with an f/2.8 lens, and the EOS 7D Mark II offers EV -3 with an f/2.8 lens). The cameras can remain stable in adverse conditions, with secondary imaging sensors that use temperature- and humidity-resistant glass molding. With the EOS-1D X and EOS 5D Mark III cameras' firmware updates<sup>†</sup>, cross-type autofocusing is possible when the maximum aperture of a Canon EF lens becomes f/8 with an EF extender attached.



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

**Enhanced Subject Tracking**

Reliable subject identification and tracking features significantly improve a camera's performance in any number of situations. On select EOS cameras, EOS iTR AF can use both face detection and color to track a subject. With acceleration and deceleration tracking, the EOS-1D X camera's AI Servo AF system can adjust and react to sudden stops and starts. For the EOS 7D Mark II camera, iTR AF has been enhanced with tracking algorithms optimized for more precise performance. EOS iTR AF is especially perfect for sports and wildlife photography. Specific parameters can be adjusted and refined, then saved in the AF menu for later use.



\* Available only on EOS-1D X with firmware update

<sup>§</sup> The number of available AF points, and whether single line or cross-type, varies depending on the lens.

**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 when 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. AI Servo AF III, found on select EOS DSLR cameras, uses 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, can be captured accurately with a Canon macro lens using these tracking algorithms. With the firmware update<sup>†</sup>, the viewfinder of the EOS-1D X can be illuminated in red (intermittently) when the shutter button is pressed halfway during AI Servo AF, for easy viewing and shooting in low light.

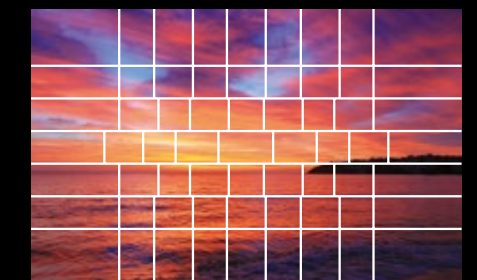
**Diverse AF Shooting Options**

On the EOS-1D X, EOS 5DS, EOS 5DS R, and EOS 5D Mark III cameras, 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. The EOS 7D Mark II camera also has the same 6 AF point selection modes, and includes a new Large Zone AF mode. To manage all of the

shooting options, both the EOS-1D X and EOS 5D Mark III have a dedicated AF menu tab, while the EOS 7D Mark II has a special AF area selection lever so AF settings are faster and easier to access.

**Superb Exposure Control**

Canon EOS cameras incorporate advanced exposure control systems, offering amazingly precise 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



**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.

exposure even in the most challenging lighting situations. Photographers can choose from several additional metering options. Center-Weighted metering is available for a more traditional pattern. Partial metering limits readings to sensor zones in the center of the image area, offering more area-specific control. Spot readings can be taken at the center of the frame area or linked to an AF point on specific models. With certain EOS cameras, up to eight separate spot meter readings can be recorded and averaged. On select EOS cameras, the iFCL (Intelligent Focus Color Luminance) 63-zone dual-layer metering system incorporates the color wavelength surrounding the chosen focus point to help ensure more natural color rendition. The outstanding exposure control technology that Canon has created is also fully integrated with the flash photography tools of the EOS System. E-TTL (Evaluative Through-The-Lens) and E-TTL II autoflash systems work in combination with the camera's multi-zone metering sensor to help take the guesswork out of flash photography. (See the Speedlite section for more details.)

**Intelligent Viewfinder – Change your viewfinder display to match your situation.** (All displays shown are the EOS 7D Mark II's Intelligent Viewfinder II)



**65-point\* AF auto selection display** – The camera automatically chooses the correct AF point.



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



**Zone AF (9 patterns) display** – The AF points are divided into five focusing zones, useful for off-center shots.



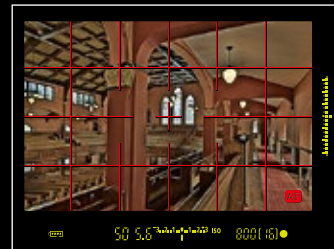
**Large Zone AF (3 patterns) display** – AF area is divided into 3 large zones to provide balance between image composition and subject tracking.\*\*



**AF point expansion display** – Focus with a selected AF point and points surrounding it (choose 4 or 8 points\*\*). Great for action.



**Single-spot point AF display** – Focuses on a smaller area for precise focus on small subjects.



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



**All display** – AF point, shooting, electronic level information, and more can be reviewed on the viewfinder.

**Intelligent Viewfinder**

An Intelligent Viewfinder uses a transparent LCD monitor to superimpose a customizable combination of focus points, gridlines and other shooting information within the viewfinder. Whereas the representation of AF points and metering areas are static with standard viewfinders, 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 EOS 7D Mark II camera's Intelligent Viewfinder II even allows users to change settings right from the viewfinder while shooting. With Grid Display and in Spot Metering mode, the specific area metered is shown.

**Viewfinder**

A clear, bright viewfinder is the photographer's first tool for great images. Canon innovates with their viewfinders by offering approximately 100% viewfinder coverage in select EOS cameras. Several EOS cameras also have a larger pentaprism for higher viewfinder magnification. All EOS cameras offer dioptic correction while numerous EOS cameras have a number of different viewfinder accessories 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 camera 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

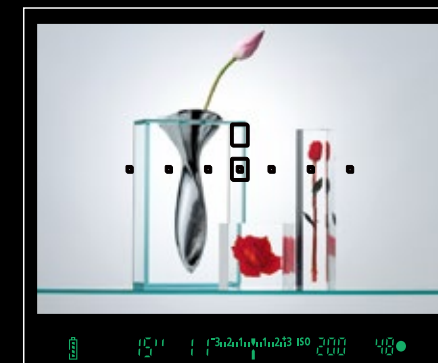
for comfort and familiarity, and combined with a vertical position Multi-controller, provides every option and button found in the horizontal for uninterrupted, intuitive shooting no matter the camera's orientation. Plus, the EOS-1D X's Multi Electronic Lock allows the Main Dial, Quick Control Dial and Multi-controller to be all locked, individually or together.



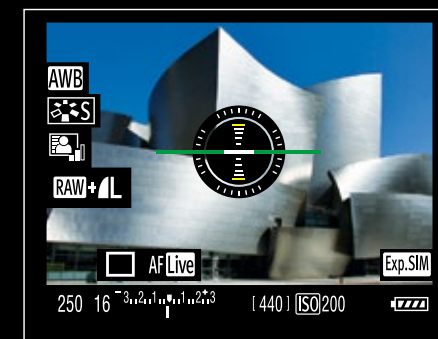
\* The number of available AF points, and whether single line or cross-type, varies depending on the lens.\*\* EOS 7D Mark II camera only

**Dual Axis Electronic Level Sensor**

Developed by Canon and featured in select EOS cameras, the brilliant Dual Axis Electronic Level display aids in achieving perfectly oriented shots. Capable of displaying both roll and pitch in 1° increments, the Dual Axis Electronic Level is visible in the viewfinder and on the camera's LCD monitor, in both Live View mode or as a standalone. This feature is invaluable for architecture photography, 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**

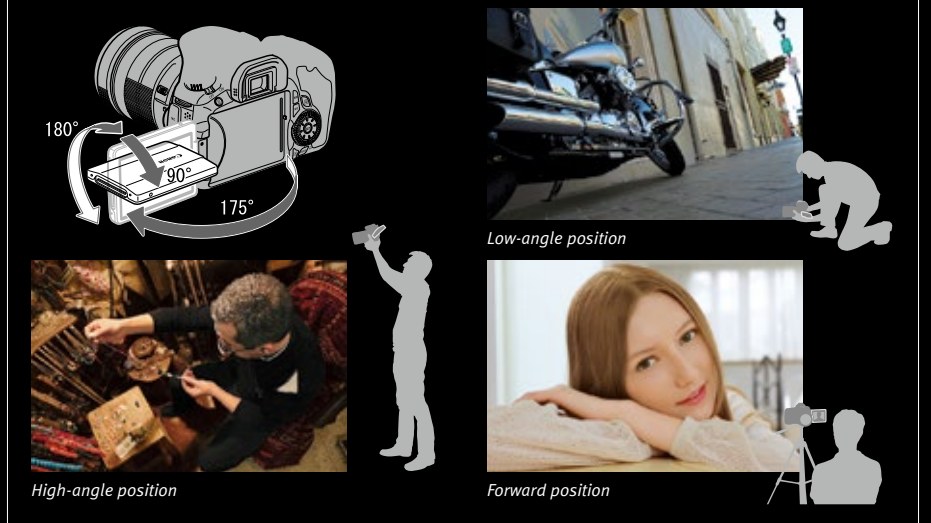
Found on select EOS cameras, the Vari-angle 3.0-inch ClearView LCD monitor and Vari-angle Touch Screen

3.0-inch ClearView LCD monitor II with 180° vertical rotation set high standards for clarity and flexibility. Designed to



Using Touch Shutter mode, you can focus and take the picture just by tapping the LCD monitor screen.

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



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 (perfect for shooting self-portraits). Because the monitor opens out sideways, it switches between low and high angle shooting without interfering with the use of auxiliary camera grips or tripods. As an added plus, select EOS cameras' LCD monitors have touch screen capabilities for more intuitive control.

**Live View Function**

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 navigate the composition 5x or 10x its normal size (6x or 16x for EOS 5DS and 5DS R), 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



**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. (Up to 16x for EOS 5DS and 5DS R)

remotely through the camera's USB connection, or wirelessly if the optional Wireless File Transmitter is used.

**Live View Focusing**

Canon's Live View Function includes three 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.

**Top LCD Panel and Multi-control Dial**

The EOS Rebel T6s camera is the first EOS Rebel to feature a top LCD panel and a multi-control dial. Mostly found on high-end professional EOS cameras, the top LCD panel and a multi-control dial provide quick and convenient controlling of shooting information in different shooting situations.



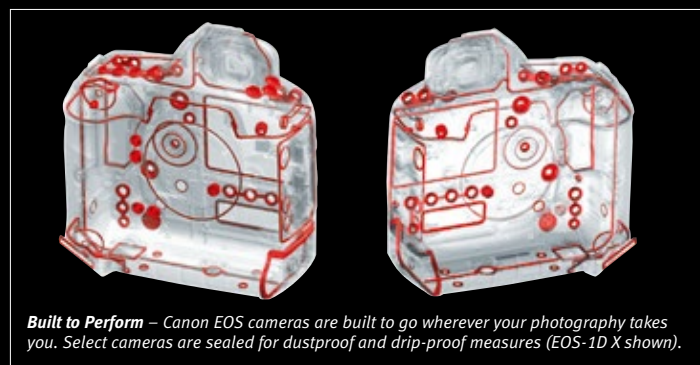
\* Not available on the EOS 5DS, 5DS R, 7D Mark II and 70D camera.



©Ken Sklute

### Maximum Durability and Performance

EOS cameras are designed to perform admirably and consistently no matter the situation. Many EOS camera bodies are constructed of rigid, high-strength magnesium alloy for rugged performance. The EOS-1D X and EOS 5D Mark III cameras feature weather-sealing surfaces and connection points for reliable 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 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).

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.

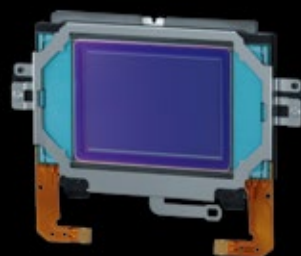
removing an even greater amount of dust, especially smaller particles. The IR/UV absorbing glass in front of the camera's sensor is treated with an anti-dust fluorine coating, making it easier to remove damp or sticky dust particles.

### 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 surface of the sensor's IR-cut/low-pass filter cleans itself automatically with ultrasonic

### Ultrasonic Wave Motion Cleaning

Select EOS cameras feature Canon's integrated dust removal cleaning, which uses a carrier wave type self-cleaning sensor unit. 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 with ultrasound. The wave-type system effectively rolls rather than shakes the dust particles off,

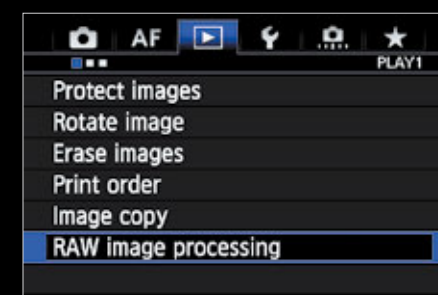


Self-cleaning sensor unit (EOS-1D X)

### 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)

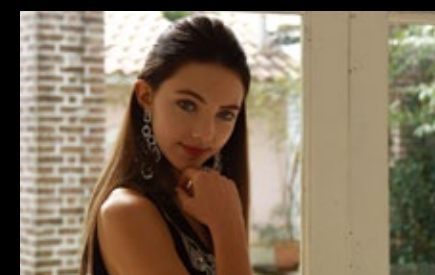


In-Camera RAW processing

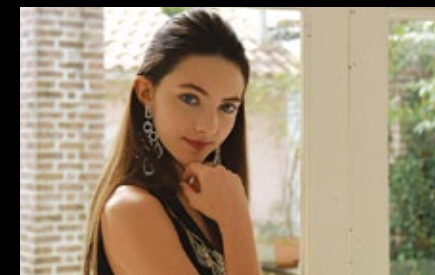
Best described as "digital negatives," RAW images contain pre-processed image data as captured by the sensor and, with post-processing, they yield the highest image quality possible from an EOS camera. While professionals and advanced amateurs often prefer to shoot in RAW mode, JPEG images take up significantly 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. Select EOS cameras feature 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 the 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 modes, and can be used and



Auto Lighting Optimizer **Disable**



Auto Lighting Optimizer **High**

fine-tuned in other modes. The Canon Auto Lighting Optimizer helps produce beautifully exposed images that require little to no post-production work.

### Lens Chromatic Aberration Correction



With the advanced processing power of DIGIC Image Processors on select EOS DSLR cameras, chromatic aberration in Canon lenses can be corrected at the time of shooting. Select models can read the correction data from a lens and that lens can be registered to the camera. These cameras can also 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 high-contrast situations. Canon's Highlight Tone Priority function calculates the 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.



Highlight Tone Priority: **OFF**



Highlight Tone Priority: **ON**

\* 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

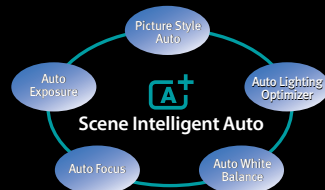


Beyond normal shooting modes such as Auto, Aperture priority and Shutter priority, select EOS cameras offer shooting features such as Picture Style technology, which helps optimize camera settings for subjects like landscapes and portraits, even monochromes. For even more creative imaging freedom, Canon developed Basic+. Basic+ makes it easy to create whatever image effects are desired using two 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, help ensure accurate, nuanced results.

### Scene Intelligent Auto



Scene Intelligent Auto, found on select EOS cameras, merges a number of very complex measurements into settings that help create photographs of gorgeous tonality, accurate color, sharp focus and phenomenal detail.



### 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

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

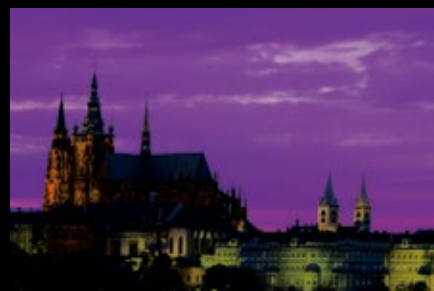
### Picture Style Settings Help Fine-tune Images to Match Your Scene



**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.

Style Auto, which automatically determines an ideal style for a particular scene. The EOS 5DS and EOS 5DS R cameras also include a new Fine Detail style to emphasize patterns, textures and fine edges.

### Multiple Exposure Control



Select EOS cameras offer multiple exposure shooting modes for film-like image creation with the convenience of in-camera processing. They offer up to four compositing methods for proper exposure and composition: additive, average, bright and dark (the EOS 6D and EOS 70D feature 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.

### Multi-Aspect Ratios



For the ultimate in custom shooting, select EOS models are able to shoot in a number of aspect ratios, like 4:3, 3:2, 16:9, and even 1:1 for square compositions!

### Creative Filters

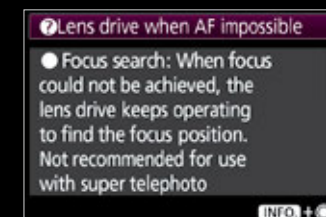
Select EOS cameras feature fun Creative Filters, such as Grainy B&W, Fisheye Effect, Toy Camera Effect, Miniature Effect, Art Bold Effect and Water Painting Effect. On the EOS Rebel SL1 camera, Miniature Effect can also be applied to videos. Each effect can be applied in three different levels (low, standard and strong), and easily previewed on the LCD panel in Live View on select EOS cameras.

### High Dynamic Range



Perfect for capturing scenes with extreme highlights or shadows, High Dynamic Range (HDR) shooting is a feature found in select EOS cameras. HDR merges 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 ±3 stops, and with five different effect settings on select EOS cameras, 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 cameras based on the response and feedback of

professional users. Their 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, helping to ensure the photographer can concentrate on shooting images with the knowledge that the camera’s settings are just right. Select EOS cameras 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 camera and external components. The EOS DSLR cameras have a number of dedicated Wireless File Transmitters that keep the camera wirelessly connected 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.



Wireless File Transmitter  
WFT-E6A

**Fast, Reliable Image Data Transfer** – The WFT-E6A, WFT-E7A and WFT-E7A Ver. 2 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 up to 3x faster (for the WFT-E7A) than other models, and feature an image resend feature that helps ensure 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 virtually anywhere in the world. 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. Select EOS cameras also allow a dedicated media server to be created with DLNA (Digital Living Network Alliance) compliant devices, allowing numerous points of access to images instantaneously.

**Computer Connectivity** – EOS Utility Mode, or PTP (Point-to-Point) connectivity, allows the photographer to connect a single camera to a



©Bruce Dorn

*“The wireless capabilities of my Canon file transmitters and Canon Speedlite flashes streamline my creative workflow. The file transmitter allows wardrobe stylists, make-up artists, and clients to see my results “in the moment” and my wireless Speedlite makes lighting changes a snap. I love ‘em!”*



Bruce Dorn, DGA  
Explorer of Light

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 wireless-enabled handheld devices, including compatible 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 DSLR cameras feature rugged and lightweight magnesium alloy bodies, just like the cameras to which they attach. Moreover, they feature the same fully sealed construction, helping to ensure 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 and NFC with Camera Connect App

Select EOS cameras incorporate sophisticated capabilities into their compact and lightweight design with built-in Wi-Fi<sup>®</sup> and NFC (Near Field Communication) technology. With the Camera Connect App<sup>1</sup> and built-in wireless technology, the camera can connect directly to a compatible smartphone<sup>2</sup> for remote operation. Exposure settings, focus and shutter can be operated wirelessly, so that 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 PictBridge (Wireless LAN) certified printers without the need for a PC. Built-in NFC technology enables virtually seamless connection to your compatible smart device installed with the Camera Connect app, establishing a Wi-Fi<sup>®</sup> connection for quick, easy sharing of your images.

## Built-in GPS Transmitter

With built-in GPS<sup>††</sup>, the EOS 6D and EOS 7D Mark II cameras can record longitude, latitude and altitude data as EXIF data, have 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 select EOS cameras. 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 select EOS cameras 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>.

<sup>§</sup> To use the older model WFT-E7A (not Version 2), the firmware must be updated and Interface Cable IFC-40AB II or IFC-150AB II must be used.

\* 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.

<sup>1</sup> 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>2</sup> Compatible with iOS version 5.0 or later and Android devices version 2.3/4.0 or later. Data charges may apply.

<sup>†</sup> One-time registration is required on CANON IMAGE GATEWAY online photo album.

<sup>††</sup> 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.

<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.





# EOS REBEL T6s

## Advanced EOS Features, Rebel Simplicity

Designed for those who want more creative control, but still want the ease-of-use of the Rebel line, the EOS Rebel T6s camera is a great choice. Wireless sharing is easy and convenient with built-in Wi-Fi\*\* and Near Field Communication (NFC)\*\*. For stills, the camera can shoot quickly in Live View mode with Servo Burst Shooting, plus it has advanced HD video shooting features that include HDR video recording and Movie Digital Zoom. Premium features like manual controls, illuminated Top LCD, Quick Control Dial, and compatibility with Canon's wide range of EF and EF-S lenses provide users the artistic freedom to easily capture truly unique and expressive photos and videos the way they envision.



**24.2** MEGA PIXELS CMOS  
**DIGIC 6**  
**FULL HD** 1080  
**ISO** 12800 / 6400  
**5.0** Frames Per Sec  
**3:2** WIDE ClearView II  
**7.7cm / 3.0"** LCD Vari angle LCD  
**Hybrid CMOS AF III**

**19AF** Cross-type Max. 7,560 PIXEL RGB+IR Metering sensor  
**Wi-Fi / NFC**  
**A+** Scene Intelligent Auto  
**Picture Style**  
**PictBridge**  
**XC**  
**HDMI**

# EOS REBEL T6i

## Wireless Takes EOS Rebel to The Next Level

For simple and fun photos and videos that are easy to share, look to the Canon EOS Rebel T6i camera. A first ever for the EOS Rebel line, built-in Wi-Fi\*\* and NFC\*\* are now available. Canon's sophisticated EOS Scene Analysis system automatically adjusts the camera's settings to help produce the stunning results in tricky light situations. The EOS Rebel T6i has an intuitive design that's easy to understand so capturing beautiful, natural-looking photos and HD videos can be incredibly effortless with just a push of a button. Refined controls and advanced AF helps provide quick and precise focus on subjects so that taking beautiful HD videos is fun and easy.



**24.2** MEGA PIXELS CMOS  
**DIGIC 6**  
**FULL HD** 1080  
**ISO** 12800 / 6400  
**5.0** Frames Per Sec  
**3:2** WIDE ClearView II  
**7.7cm / 3.0"** LCD Vari angle LCD  
**Hybrid CMOS AF III**

**19AF** Cross-type Max. 7,560 PIXEL RGB+IR Metering sensor  
**Wi-Fi / NFC**  
**A+** Scene Intelligent Auto  
**Picture Style**  
**PictBridge**  
**XC**  
**HDMI**

\* Compatible with iOS versions 6.0/6.1/7.0/7.1/8.0/8.1, Android smartphone versions 2.3.3/4.0/4.1/4.2/4.3/4.4/5.0 and Android tablet versions 4.0/4.1/4.2/4.3/4.4/5.0. Data charges may apply. With the download of the free Canon Camera Connect app. This software helps enable 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.  
 \*\* Compatible with Android devices version 4.0 or later.



## EOS Full HD

### EOS Full HD Video

The EOS Rebel T6s and EOS Rebel T6i cameras capture gorgeous, polished Full HD movies easily at the press of a button. Technologies such as Hybrid CMOS AF III allows for fast, accurate and reliable focusing, even if the subject is in motion. Working with a Canon STM lens, AF operation is quiet and smooth.



### Video Snapshot & Wind-noise Filter

The Video Snapshot feature takes predetermined video vignettes and strings them together, creating simple movies with no need for editing. An automatic wind-noise reduction feature helps ensure distracting sounds do not interfere with voices and music.



### HDR Movie (EOS Rebel T6s only)

The EOS Rebel T6s camera has an HDR movie mode that helps minimize blown-out highlights in high-contrast scenes. The camera alternately records videos with normal exposure and underexposure, and then combines them together into a single frame. This helps produce stunning videos with extensive color gradation, highlights and shadow detail.

### MP4 Recording/Light IPB Recording

Both the EOS T6s and EOS Rebel T6i cameras record videos in MP4 format, a versatile high quality file format perfect for sharing and uploading because it takes up relatively little storage space. Even higher compression is possible with light IPB recording, which delivers files compatible with compatible smartphones, tablets and social networking sites.

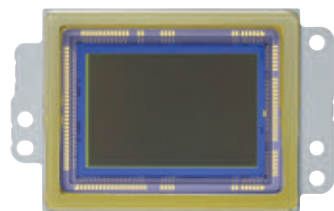
### Hybrid CMOS AF III Hybrid AF III

Both the EOS Rebel T6s and EOS Rebel T6i cameras have advanced Hybrid CMOS AF III that helps deliver incredibly fast and accurate Live View shooting with maintained focus while the subject is in motion.

## High Image Quality

### DiGiC 6 Image Processor & 24.2 Megapixel APS-C CMOS

Both the EOS Rebel T6s and EOS Rebel T6i cameras feature Canon's 24.2 Megapixel CMOS (APS-C) sensor. Capable of capturing huge image files, the sensor works in concert with a next generation DiGiC 6 Image Processor to make photos and videos of incredible depth and beauty quickly and easily.



24.2 Megapixel APS-C CMOS Sensor (actual size)

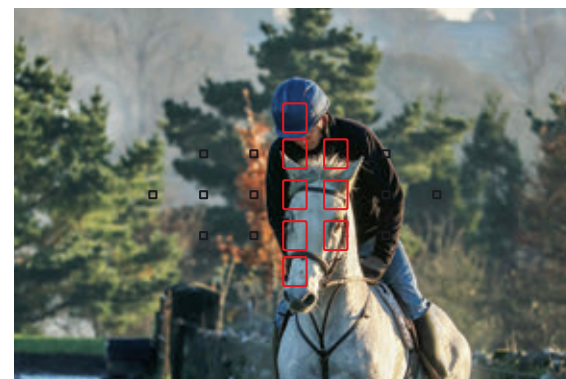
### ISO 100-12800

From bright light to dusk, the EOS Rebel T6s and EOS Rebel T6i cameras can capture images at ISO 100-12800 (H: 25600), making it possible to obtain stunning results in various lighting.



### All Cross-type 19-point AF System

For viewfinder shooting, an updated 19-point all cross-type AF system with improved tracking of moving subjects is designed for capturing the action with accuracy. With cross-type AF points, precise focus is achieved and maintained whether the camera is held vertically or horizontally.



All Cross-type 19-point AF system

### EOS Scene Analysis

A new EOS scene analysis system detects the prominent light source and makes adjustments to the camera exposure, focus and color settings to account for the prevailing light. The new RGB+IR sensor is capable of detecting near-infrared light and flickering light sources enhances the scene analysis system's accuracy.



5.0 fps Continuous Shooting

### 5.0 fps Continuous Shooting

The powerful DiGiC 6 Image Processor helps both the EOS Rebel T6s and EOS Rebel T6i cameras to shoot up to 5.0 frames per second to capture the action as it unfolds. This speed enables a number of sophisticated features like Handheld Night Scene, HDR Backlight Compensation and Multi-shot Noise Reduction.

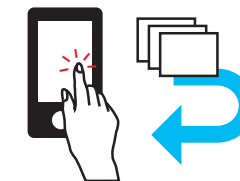


## Wi-Fi® / NFC



Canon Connect Station CS100

### Canon Camera Connect App functions



**Transfer Images**  
Use camera to view/transfer images.



**Remote Shooting**  
Control camera functions using a compatible mobile device<sup>ΔΔ</sup>.



**NFC function**  
Connect to a compatible Android™ device<sup>Δ</sup> with a tap.

### NFC + Wi-Fi® and Connect Station CS100 Device Compatibility

Built-in NFC and Wi-Fi® are now available for easy wireless sharing. With Near Field Communication (NFC), the EOS Rebel T6s and EOS Rebel T6i cameras can connect directly to compatible Android™ devices<sup>Δ</sup> with a simple tap. The cameras can transfer images to Canon's new Connect Station CS100 and even send photos to compatible Canon cameras.



### Canon Camera Connect App

Using Canon's new Camera Connect App<sup>ΔΔ</sup>, the cameras can connect to a number of compatible smartphones and iOS devices<sup>ΔΔ</sup> for remote operation and image browsing and transfer. Printing to wireless PictBridge-enabled (Wireless LAN) printers is a breeze, as well as uploading to select online photo sharing sites.



## Easy Camera Operation



### LCD Panel and Quick Control Dial (EOS Rebel T6s only)

The EOS Rebel T6s camera's illuminated top LCD panel offers a quick glance at camera settings without needing to look through the viewfinder or at the rear screen. A Quick Control Dial positioned where the thumb normally rests makes operation fast and intuitive across the board.

### Vari-angle LCD Touch Panel

The 3.0-inch Vari-angle, touch panel LCD monitor provides incredible shooting flexibility. Designed for use with or without a tripod, it is ideal for high and low angle shooting, plus self-portraits. With touch panel operation, shooting, adjusting and playback are easy and convenient.

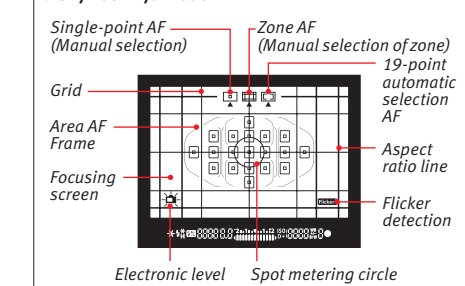


### Intelligent Viewfinder

Presenting an immense amount of information superimposed directly over the image, the Intelligent Viewfinder displays pertinent shooting information. It will show AF points and framed areas, aspect ratio lines, a grid, a flickering light notification, and even the electronic level (EOS Rebel T6s only).



### Viewfinder Information



<sup>Δ</sup> Compatible with Android devices version 4.0 or later.  
<sup>ΔΔ</sup> Compatible with iOS versions 6.0/6.1/7.0/7.1/8.0/8.1, Android smartphone versions 2.3.3/4.0/4.1/4.2/4.3/4.4/5.0 and Android tablet versions 4.0/4.1/4.2/4.3/4.4/5.0. Data charges may apply. With the download of the free Canon Camera Connect app. This software helps enable 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.



# EOS 5DS

**NEW**

## The Freedom of High Resolution

Marking a new standard in high-resolution digital SLR photography, the Canon EOS 5DS camera shatters the status quo with a new 50.6 Megapixel, full-frame CMOS sensor. Perfect for commercial and fine art photography, or any other application that calls for extremely high-resolution, the EOS 5DS is the combination of EOS performance and ultra-high megapixel capture. It features an advanced, 61-point High Density Reticular AF system that includes 41 cross-type AF points and EOS iTR AF for precise AF in numerous situations. A refined mirror control mechanism helps reduce vibration for sharp image capture and a Release Time Lag Arbitrary setting helps minimize shutter blur. New features like a crop function of 1.3x and 1.6x and a Custom Quick Control Dial are complemented by advanced, multi-featured Full HD Movie capture, with Time Lapse Movie, and much more. With EOS performance and 50.6 Megapixel Capture, the EOS 5DS revolutionizes high-resolution image capture!



- 50.6 MEGA PIXELS**  
CMOS
- DIGIC 6**  
DUAL
- FULL FRAME**  
CMOS
- Picture Style**
- FULL HD 1080**
- Up to 5.0**  
Frames Per Sec
- LiveView**  
MODE
- ISO 6400**
- 61**  
High Density Reticular AF
- 150,000 PIXELS**  
RGB-R Metering sensor
- 3:2 WIDE**  
ClearView II
- Viewfinder II**
- DIRECT PRINT**
- PictBridge**
- HDMI**
- SUPER SPEED**  
USB

# EOS 5DS R

**NEW**

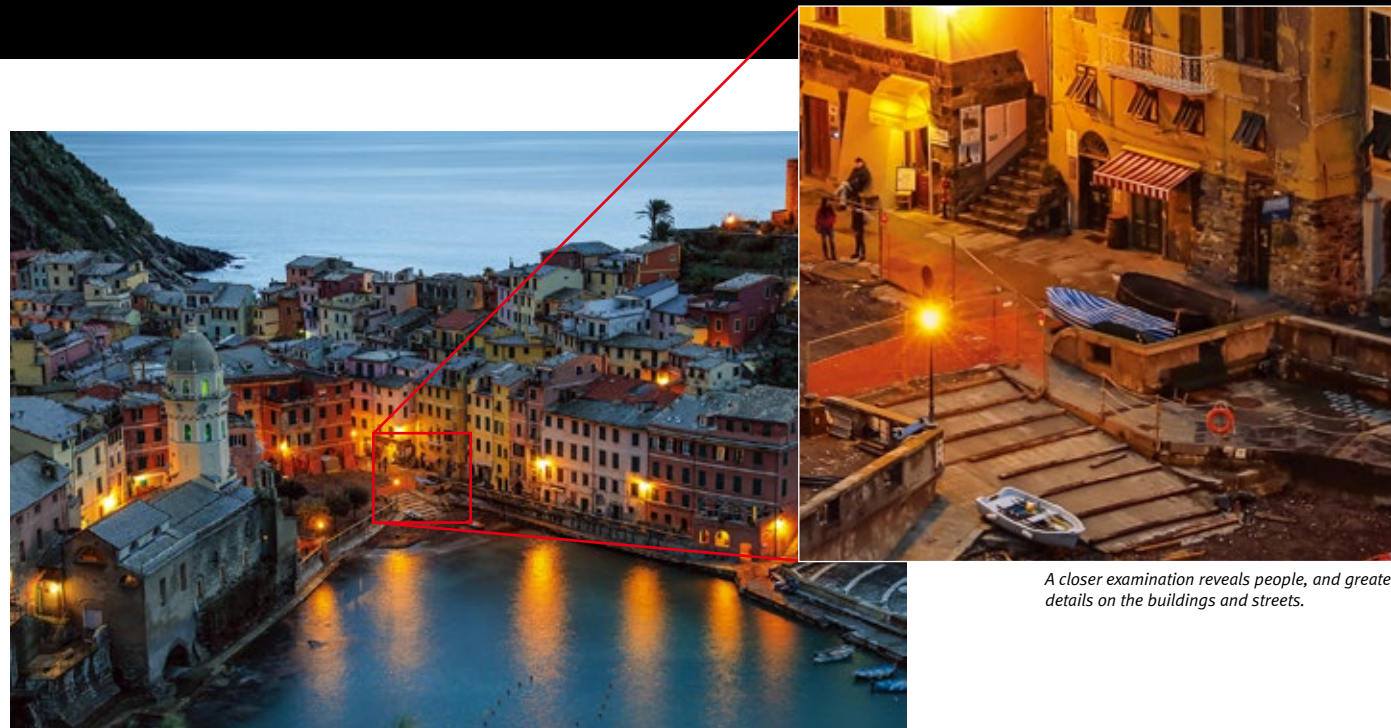
## It's All in the Detail

With all the features and capabilities of the EOS 5DS, the EOS 5DS R camera offers the potential for even greater sharpness and fine detail for specialized situations. It features the same Canon designed and manufactured 50.6 Megapixel sensor, with the low-pass filter (LPF)\* effect cancelled to provide even more fine edge sharpness and detail for critical subjects such as detailed landscapes, and other situations where getting the sharpest subject detail is a priority.



- 50.6 MEGA PIXELS**  
CMOS
- DIGIC 6**  
DUAL
- FULL FRAME**  
CMOS
- Picture Style**
- FULL HD 1080**
- Up to 5.0**  
Frames Per Sec
- LiveView**  
MODE
- ISO 6400**
- 61**  
High Density Reticular AF
- 150,000 PIXELS**  
RGB-R Metering sensor
- 3:2 WIDE**  
ClearView II
- Viewfinder II**
- DIRECT PRINT**
- PictBridge**
- HDMI**
- SUPER SPEED**  
USB

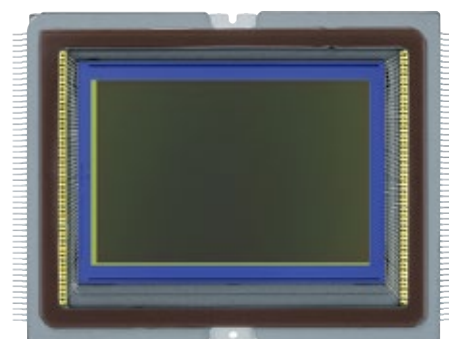
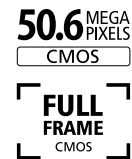
\* The possibility of moiré and color artifacts is greater due to the LPF cancellation function.



A closer examination reveals people, and greater details on the buildings and streets.

**50.6 Megapixel Canon CMOS Sensor**

The EOS 5DS and EOS 5DS R cameras feature a stunning new full-frame CMOS sensor. At 50.6 megapixels, it's the highest resolution sensor in the history of EOS cameras. It captures 8712 x 5813 effective pixels, delivering images with an unprecedented level of realism perfect for any number of high-end applications.



50.6 Megapixel Full-frame CMOS sensor (Actual size)

**Dual DIGIC 6 Image Processors**

With Dual DIGIC 6 Image Processors on board, the EOS 5DS and EOS 5DS R cameras are capable of speedy operation, even while capturing 50.6 megapixel images. These Dual DIGIC Processors enable fast movie compression, precise EOS iTR face detection with Live View and movie shooting, plus up to 5.0 fps of continuous shooting.

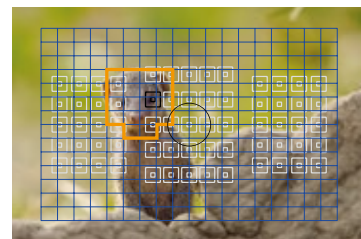


**Picture Style: Fine Detail**

To process the captured 50.6 megapixel image, the cameras utilize new Fine Detail mode in Picture Style. Fine Detail emphasizes fine edges and patterns or textures, by setting the camera's sharpness sub-settings, fineness and threshold, to their minimum.

**AE and EOS iTR AF**

To achieve and maintain focus on moving subjects the EOS 5DS and EOS 5DS R cameras have an RGB+IR AE sensor (with approximately 150,000 dots) that uses color information to monitor subject motion. EOS iTR AF can use both face detection and color to track a subject. After the autofocus system achieves focus, the RGB+IR AE sensor helps maintain focus by using color and shape information to track the subject as it moves throughout the frame.



Subject area detection

**New Shutter Release System**

The Mirror Vibration Control system is designed to help combat camera shake. The camera's mirror is not controlled by springs but driven by a small motor and cams. This helps suppress the impact of the camera's mirror, significantly reducing vibrations and their effects on the image.



**61-point AF High Density Reticular AF**

For fast, precise AF with sophisticated tracking performance, the cameras feature the 61-point High Density Reticular AF system with up to 41 cross-type AF points. It offers an admirable combination of accuracy and speed with phenomenal tracking.



**Anti-flicker Function**

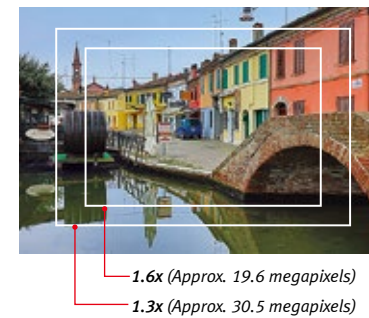
The Anti-flicker function helps enable the camera to deliver accurate results under rapid on-off pulsing of certain artificial lights. The function detects the frequency and phase of the flicker and captures images near peak brightness for optimal illumination.

**Built-in Interval Timer**

The cameras offer time-lapse fixed-point shooting and long exposures without the need for a remote control. The built-in Interval Timer can be directed to shoot at specified intervals saving as individual images or stitching images together as an HD movie.

**1.3x & 1.6x Crop Function**

The EOS 5DS and EOS 5DS R cameras' crop function enables each camera to shoot at 1.3x or 1.6x, the chosen focal length. Effectively extending the lens' range, the crop function also enhances focus tracking as the AF points extend further towards the edges of the image frame.



1.6x (Approx. 19.6 megapixels)  
1.3x (Approx. 30.5 megapixels)

**Intelligent Viewfinder II**

The Intelligent Viewfinder II makes it easy to confirm and change camera settings and shooting modes all without looking away from the viewfinder. Numerous settings can be superimposed over the image and views are easily customizable according to the user's preference.



**Custom Quick Control**

The Custom Quick Control feature enables the photographer to quickly and easily access the settings critical for the task at hand. The user can specify features to display, as well as their location and size on the screen.

**USB 3.0**

A SuperSpeed USB 3.0 terminal has been built into the cameras for high-speed transfer of images and videos. Each camera comes bundled with a cable protector and a dedicated Micro B interface cable.



Shown with a cable protector and a dedicated Micro B interface cable

**Time Lapse Movie**

The new Time Lapse movie feature takes still photos at set intervals and joins them to create a silent movie. It's perfect for showing the growth of a plant, changes in scenery, the flow of people and much more.

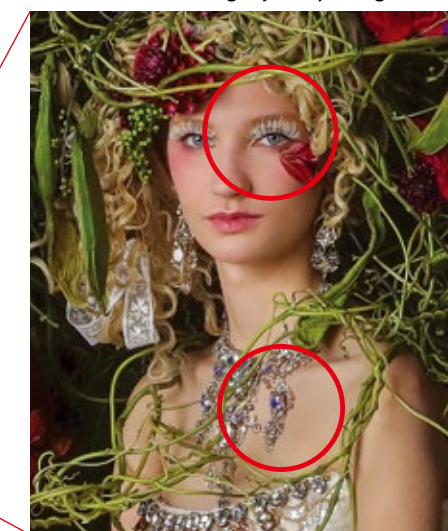


**LPF Cancellation Effect (EOS 5DS R only)**

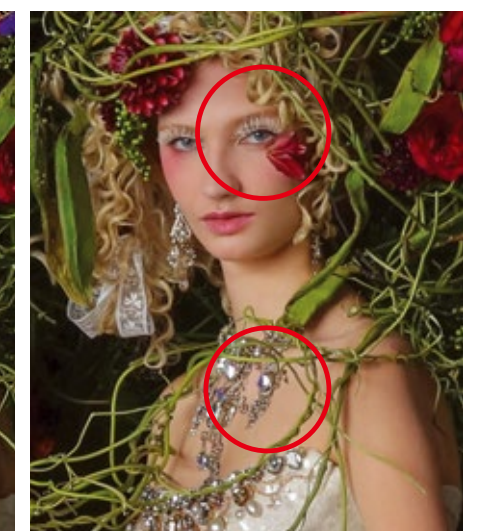
The EOS 5DS R camera has a low-pass filter (LPF)\* cancellation effect. With the LPF effect cancelled, the EOS 5DS R takes full advantage of the original resolving power of the 50.6 megapixel sensor. More detail is captured and retained in the original image, perfect where pixel-level detail is the priority.



*EOS 5DS R delivers slightly sharper edges and more textured details.*

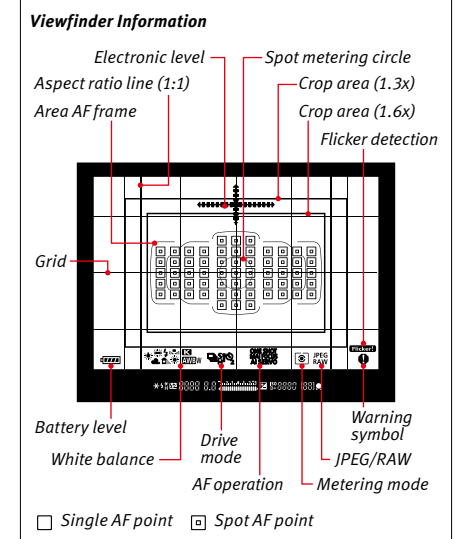


Shot with EOS 5DS R (low-pass filter effect is cancelled)



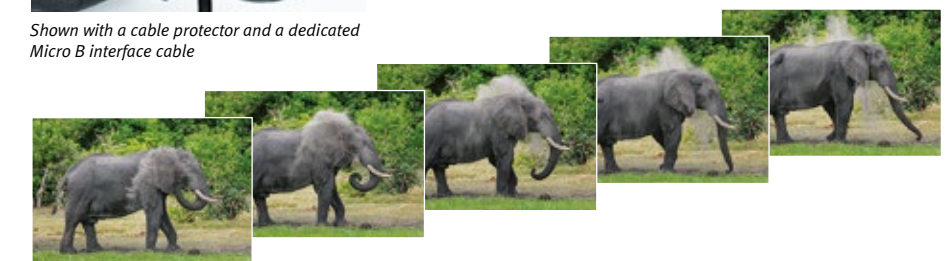
Shot with EOS 5DS (with low-pass filter effect)

\*The possibility of moiré and color artifacts is greater due to the LPF cancellation function.



**5.0 fps Continuous Shooting**

While shooting at full resolution, the EOS 5DS and EOS 5DS R cameras can shoot up to 5.0 frames per second for both One-Shot AF and AI Servo AF. They have a two-motor shooting system which, combined with the speed of the Dual DIGIC 6 processors, ensure this speedy operation.





# EOS-1D X

**FIRMWARE 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 flagship of the EOS line, the EOS-1D X camera. With a Full-frame 18.1 Megapixel CMOS sensor, Dual **DiGiC 5+** Image Processors, image capture at up to 12.0 fps\* (up to 14.0 fps in Super High Speed Mode), faster, more accurate and customizable AF\*\*, plus outstanding 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 camera.



**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" LCD** 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 up 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/cusa/consumer/standard\\_display/eos\\_1dx\\_firmware](http://usa.canon.com/cusa/consumer/standard_display/eos_1dx_firmware)



# EOS 5D Mark III

**FIRMWARE UPDATE**  
Now Available\*

## The Power to Create

For stunning high resolution, full-frame photography with supercharged EOS performance, there's nothing quite like the EOS 5D Mark III camera. With a Full-frame 22.3 Megapixel Canon CMOS sensor, Canon's amazing **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)), an Intelligent Viewfinder and Canon's advanced iFCL Metering System, plus HDR, Multiple Exposure, refined HD video recording and more, the EOS 5D Mark III is one of the most user-friendly, professional level, full-frame EOS cameras 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**

\* Download firmware now at: [usa.canon.com/cusa/consumer/standard\\_display/EOS5DM3\\_firmware](http://usa.canon.com/cusa/consumer/standard_display/EOS5DM3_firmware)



# 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 outstanding performance even in low-light conditions. The camera has a bright viewfinder and a brilliant 3.0-inch Clear View LCD monitor, and offers advanced, professional level HD capture for beautiful, cinematic HD quality videos, can shoot up to 4.5 frames per second, offers an extensive ISO range and conveniently features built-in wireless technology 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 camera.



**20.2 MEGA PIXELS CMOS** | **DiGiC 5+** | **FULL FRAME CMOS** | **FULL HD 1080** | **WiFi CERTIFIED** | **GPS** | **ISO 25600** | **Up to 4.5 Frames Per Sec**  
**11-point AF** | **63 Dual-Layer Metering** | **EOS Integrated Cleaning System** | **Picture Style** | **DIRECT PRINT** | **PictBridge** | **USB**

\* 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 7D Mark II

## Fuel Your Creative Passion

The Canon EOS 7D Mark II digital SLR camera is designed to meet the demands of photographers and videographers who want a camera that can provide a wide range of artistic opportunities. With a winning combination of cutting-edge operations and a robust, ergonomic design, it is optimized to make even the most challenging photography simple and easy. The EOS 7D Mark II features a refined APS-C sized 20.2 Megapixel CMOS sensor with Dual **DiGiC 6** Image Processors for gorgeous imagery. It shoots up to 10 frames per second at ISOs ranging from 100-16000 (expandable to H1: 25600, H2: 51200), has a 65-point\* all cross-type AF system and features Canon's amazing Dual Pixel CMOS AF for brilliant Live-View AF. It has dual card slots for both CF and SD cards, USB 3.0 connectivity and even has built-in GPS† for easy location tagging, automatically. Compatible with an ever-expanding collection of EF and EF-S lenses plus a host of EOS accessories, the EOS 7D Mark II is an ideal tool for creative and ambitious photography.



**20.2 MEGA PIXELS CMOS** | **DiGiC 6 DUAL** | **10.0 Frames Per Sec** | **Cross-type 65 AF** | **3:2 WIDE 7.7cm/3.0" LCD ClearView II** | **Dual Pixel CMOS AF** | **Approx. 100% Viewfinder** | **Live-View II**  
**ISO 16000** | **FULL HD 1080** | **150,000 Pixels RGB-IR Metering sensor** | **GPS†** | **Picture Style** | **PictBridge** | **HDMI** | **USB**

\* The number of available AF points, and whether single line or cross-type, varies depending on the lens. † 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 70D

## Meet the New Game-Changer

Changing forever the way you capture still images and video with a DSLR camera, the EOS 70D camera is a trailblazing powerhouse featuring a revolutionary autofocus technology that unlocks the potential of Live View. The innovative Dual Pixel CMOS AF allows the EOS 70D to shoot video like a camcorder, enables you to fully benefit from the freedom of angle allowed by the camera's Vari-angle Touch Screen 3.0-inch Clear View LCD monitor II, and is compatible with over 103 Canon EF lenses for expanded creative flexibility. Built-in wireless technology further enhances shooting and sharing capabilities. Superb image quality is provided by a newly designed 20.2 Megapixel CMOS (APS-C) sensor, which enables an ISO range of 100–12800 (H: 25600), and the powerful **DiGIC 5+** Image Processor helps achieve up to 7.0 fps continuous shooting. A 19-point all cross-type AF system with a high precision dual cross f/2.8 center point and Intelligent Viewfinder with customizable display provide advanced control during composition and capture, while imaging features like HDR, Multiple Exposure and Creative Filters available in real time help create spectacular photos. Elevating the possibilities of creative expression to extraordinary heights, the EOS 70D with cutting-edge Dual Pixel CMOS AF is nothing short of revolutionary.



- 20.2** MEGA PIXELS CMOS
- DiGIC 5+**
- Dual Pixel CMOS AF**
- WiFi CERTIFIED**
- FULL HD 1080**
- ISO 12800**
- ISO 6400**
- Up to 7.0** Frames Per Sec
- All Cross-type 19 AF**
- 3:2 WIDE 3.0" LCD ClearView II**
- Intelligent Viewfinder**
- Vari angle LCD**
- Picture Style**
- PictBridge**
- XC**

# EOS REBEL T5i

## Renew Your Creative Soul

Photo enthusiasts rejoice! The flagship of the spectacular EOS Rebel Line, the EOS Rebel T5i camera, is here to renew your artistic side with amazing imaging features and full-featured functionality. An 18.0 Megapixel CMOS (APS-C) sensor and Canon's superb **DiGIC 5** Image Processor combine with an extensive ISO range of 100–12800 (expandable to 25600 in H mode) to provide gorgeous, detailed images, even in low-light situations. 9 cross-type AF focus points, including a high-precision dual-cross f/2.8 center point, help ensure crisp focus throughout the frame, and the Hybrid CMOS AF system enables speedy and accurate autofocus when shooting in Live View mode, which is displayed on the brilliant Vari-angle Touch Screen 3.0-inch Clear View LCD monitor II. EOS Full HD Movie mode with Movie Servo AF help make shooting high quality videos easy, offering you another outlet for your creativity.



- 18.0** MEGA PIXELS CMOS
- DiGIC 5**
- FULL HD 1080**
- ISO 12800**
- ISO 6400**
- Up to 5.0** Frames Per Sec
- 3:2 WIDE 3.0" LCD ClearView II**
- Vari angle LCD**
- Hybrid CMOS AF**
- All Cross-type 9 AF**
- 63 ZONE Dual-Layer Metering**
- LiveView MODE**
- Scene Intelligent Auto**
- EOS Integrated Cleaning System**
- Picture Style**
- PictBridge**
- XC**



# EOS REBEL SL1

## Small Size, Big Possibilities

As the world's smallest and lightest digital SLR camera\*, the EOS Rebel SL1 camera is small in size but enormous in performance. It has an 18.0 Megapixel CMOS (APS-C) sensor and Canon DIGIC 5 Image Processor to help deliver images of outstanding quality. An ISO range of 100–12800 (expandable to H: 25600) for stills and 100–6400 (expandable to H: 12800) for video plus up to 4.0 fps continuous shooting make this camera superb in dim lighting or when capturing fast action. The 9-point AF system with a high-precision cross-type f/2.8 center point helps ensure outstanding autofocus performance when shooting with the viewfinder, while Hybrid CMOS AF II helps deliver accurate AF tracking during Live View shooting. Creative Filters add artistry to your shots, and are easily previewed on the wide Touch Screen 3.0-inch Clear View LCD monitor II. This is the DSLR you'll want to bring with you every day.

The World's  
Smallest and  
Lightest Digital  
SLR Camera\*



Also available  
in white.



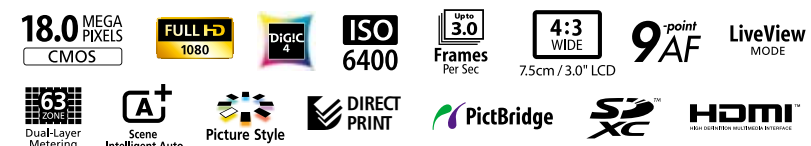
\* Among digital SLR cameras which use APS-C size equivalent sensors. As of February 1, 2015, based on Canon's research (black model only).



# EOS REBEL T5

## EOS Performance Made Simple

Perfect for families, budding photo enthusiasts and first-time SLR users alike, the EOS Rebel T5 camera makes it easy to capture movies and photos that are nothing short of dazzling. It features a powerful 18.0 Megapixel CMOS (APS-C) image sensor and Canon's DIGIC 4 Image Processor for easy recording of HD video and high-resolution photos and has a huge 3.0-inch LCD screen for Live View recording and review. With a 63-zone, Dual-layer metering system, an expanded ISO range for outstanding operation in low-light situations, shooting modes like Scene Intelligent Auto to take the guesswork out of complex shots plus creative options like Canon's Basic+ function and Creative Auto, the EOS Rebel T5 is ready for anything. With a helpful Feature Guide, rugged, lightweight construction and proven Canon design, the EOS Rebel T5 makes EOS SLR photography fast and easy!



## EOS System Chart

**EOS-1D X / EOS-1Ds Mark III / EOS-1D Mark IV**

1D X Only: Battery Pack LP-E4N, Battery Charger LC-E4N, Wireless File Transmitter WFT-E6A, GPS Receiver GP-E2, GPS Receiver GP-E1, External Microphone, Dioptric Adjustment Lens Eg Series, Eyecup Eg, Anti-Fog Eyepiece Eg, Ec-Series Focusing Screens, Wireless Controller LC-5<sup>†</sup>

1Ds Mark III/1D Mark IV Only: Battery Pack LP-E4, Battery Charger LC-E4, Wireless File Transmitter WFT-E2A, Wireless File Transmitter WFT-E2 II A, USB Cable Protector, Car Battery Cable CB-570, AC Adapter Kit ACK-E4, Angle Finder C, Stereo AV Cable AVC-DC400ST\*, Interface Cable IFC-200U, Interface Cable IFC-500U, Mini-HDMI Cable HTC-100\*, \* Not for EOS 1Ds Mark III

**EOS 5DS / 5DS R / 5D Mark III / 6D / 5D Mark II**

5DS/5DS R and 5D Mark III Only: Battery Magazine BGM-E11, Battery Magazine BGM-E11A, Eyecup Eg, Dioptric Adjustment Lens Eg Series, Anti-Fog Eyepiece Eg, Stereo AV Cable AVC-DC400ST\*\*\*, Mini-HDMI Cable HTC-100, Battery Charger LC-E6, Wireless File Transmitter WFT-E7A/E7A (Ver. 2), Interface Cable IFC-200U\*\*\*, Battery Pack LP-E6N/E6

6D Only: Battery Grip BG-E11, Cable Protector\*\*, Interface Cable IFC-150U II\*\*, Interface Cable IFC-500U II\*\*, GPS Receiver GP-E2\*, External Microphone, Wireless File Transmitter WFT-E7A/E7A (Ver. 2), Interface Cable IFC-200U\*\*\*, Battery Pack LP-E6N/E6

6D Only: Battery Magazine BGM-E13L, Battery Magazine BGM-E13A, Rubber Frame Eb, Dioptric Adjustment Lens E Series, Eyecup Eb, Stereo AV Cable AVC-DC400ST, Interface Cable IFC-500U\*\*\*, Angle Finder C, Battery Grip BG-E13, Eyepiece Extender EP-EX15, Focusing Screen Eg-A II, Eg-Series Focusing Screens, GPS Receiver GP-E2, External Microphone, AC Adapter Kit ACK-E6

5D Mark II Only: Stereo Video Cable STV-250N, Rubber Frame Eb, Dioptric Adjustment Lens E Series, Eyepiece Extender EP-EX15, Wireless File Transmitter WFT-E4 II A / WFT-E4A, Battery Magazine BGM-E6, Eg-Series Focusing Screens, Eyecup Eb, Original Data Security Kit OSK-E3, Car Battery Cable CB-570, Car Battery Charger CBC-E6, Wireless Remote Controller RC-600

**EOS 7D Mark II / 7D**

7D Mark II Only: Battery Grip BG-E16, Battery Magazine BGM-E16L, Battery Magazine BGM-E16A, Focusing Screen Eh-A, Focusing Screen Eh-S, Wireless File Transmitter WFT-E7A\*\*/E7A (Ver. 2), Mini-HDMI Cable HTC-100, External Microphone, Battery Pack LP-E6N/E6, Battery Charger LC-E6, Angle Finder C

7D Only: Battery Grip BG-E7, Wireless File Transmitter WFT-E5A, Battery Magazine BGM-E6, Original Data Security Kit OSK-E3, GPS Receiver GP-E2\*, Eyecup Eg, Anti-Fog Eyepiece Eg, Dioptric Adjustment Lens Eg Series, Interface Cable IFC-500U, Interface Cable IFC-200U, Stereo AV Cable AVC-DC400ST, Wireless Remote Controller RC-1/RC-5, Car Battery Cable CB-570, Car Battery Charger CBC-E6, AC Adapter Kit ACK-E6

**EOS 5D**

Battery Grip BG-E4, Battery Pack BP-511A, Battery Charger CB-5L, Interface Cable IFC-400PCU, Video Cable VC-100, Ec-Series Focusing Screens, Angle Finder C, AC Adapter Kit ACK-E2, Car Battery Cable CB-570, Compact Power Adapter CA-570, Eyepiece Extender EP-EX15, Eyecup Eb, Rubber Frame Eb, Dioptric Adjustment Lens E Series, Wireless File Transmitter WFT-E1A, Extended Range Antenna ERA-E1

**EOS 70D / 60D / 60Da / 50D / 40D**

70D Only: Battery Grip BG-E14, GPS Receiver GP-E2, Battery Pack LP-E6N/E6, Battery Charger LC-E6, AC Adapter Kit ACK-E6, Stereo AV Cable AVC-DC400ST, External Microphone, Mini-HDMI Cable HTC-100 (Not for EOS 40D), Angle Finder C

60D/60Da Only: Battery Grip BG-E9, Battery Magazine BGM-E9L, Battery Magazine BGM-E9A, Ef-Series Focusing Screens, Original Data Security Kit OSK-E3, Magnifier MG-Eb, Eyepiece Extender EP-EX15, Eyecup Eb, Rubber Frame Eb, Dioptric Adjustment Lens E Series

50D/40D Only: Battery Grip BG-E2N, Wireless File Transmitter WFT-E3A, Battery Magazine BGM-E2, AC Adapter Kit ACK-E2, DC Coupler DR-400, Battery Charger CG-580 or CB-5L, Battery Pack BP-511A, Video Cable VC-100, Compact Power Adapter CA-570, Compact Power Adapter CA-PS400

**EOS 70D**

**EOS 5D**

**EOS 7D Mark II**

**EOS 7D**

**EOS 5D Mark II**

**EOS 5D Mark III**

**EOS 5DS R**

**EOS 5DS**

**EOS 6D**

**EOS 60D/60Da**

**EOS 50D**

**EOS 40D**

**EOS Rebel T6s / T6i / T5i / T4i / T3i / T2i / SL1 / T5 / T3**

EOS Rebel T6s/T6i Only: Battery Grip BG-E18, Battery Pack LP-E17, Battery Charger LC-E17, GPS Receiver GP-E2, Interface Cable IFC-130U, Remote Switch RS-80N3<sup>†</sup>, Interface Cable IFC-200U, Interface Cable IFC-500U, Wireless Remote Controller RC-6A

EOS Rebel T5i/T4i/T3i/T2i Only: Battery Grip BG-E8, Battery Pack LP-E8, Battery Charger LC-E8, Battery Magazine BGM-E8L, AC Adapter Kit ACK-E18, USB Interface Cable IFC-400PCU, Stereo AV Cable AVC-DC400ST, External Microphone, Interface Cable IFC-500U, Mini-HDMI Cable HTC-100

EOS Rebel SL1 Only: Battery Pack LP-E12, Battery Charger LC-E12, Stereo AV Cable AVC-DC400ST, AC Adapter Kit ACK-E15, GPS Receiver GP-E2 (Rebel T5i, T4i only), External Microphone, Rubber Frame Ef, Dioptric Adjustment Lens E Series, Eyepiece Extender EP-EX15 II, Angle Finder C

EOS Rebel T5/T3 Only: Battery Pack LP-E10, Battery Charger LC-E10, AC Adapter Kit ACK-E10, GPS Receiver GP-E2 (Rebel T5 only), External Microphone, Eyecup Ef, Magnifier MG-Ef

**EOS M**

Battery Pack LP-E12, Battery Charger LC-E12, AC Adapter Kit ACK-E12, Stereo AV Cable AVC-DC400ST, Interface Cable IFC-130U, Interface Cable IFC-200U, Interface Cable IFC-500U, External Microphone, Wireless Remote Controller RC-6, GPS Receiver GP-E2, Mount Adapter EF-EOS M

**EOS-1v**

Power Drive Booster PB-E2, Battery Magazine BM-E2, Ni-MH Pack NP-E2, Ni-MH Charger NC-E2, Wireless Controller LC-5, Anti-Fog Eyepiece Ec, Eyepiece Extender EP-EX15, Eyecup Ec-II, Rubber Frame Ec, Dioptric Adjustment Lens E Series, Angle Finder C, Timer Remote Controller TC-80N3, Remote Switch RS-80N3, Extension Cord ET-1000N3, Remote Switch Adapter RA-N3, Battery Pack BP-E1, EOS Link Software ES-E1, Ec-Series Focusing Screens, Extension Cord 100T3<sup>ΔΔΔ</sup>, Remote Switch 60T3<sup>ΔΔΔ</sup>, Cable Release Adapter T3<sup>ΔΔΔ</sup>, Remote Switch Adapter T3<sup>ΔΔΔ</sup>

**Connect Station CS100**

EOS-1D X, EOS 5DS, EOS 5DS R, EOS 5D Mark III, EOS 6D, EOS 7D Mark II, EOS 70D, EOS 60D/60Da, EOS Rebel T6s, EOS Rebel T6i, EOS Rebel T5i, EOS Rebel T4i, EOS Rebel T3i, EOS Rebel T2i, EOS Rebel SL1, EOS Rebel T5, EOS Rebel T3, EOS M

**EOS Rebel T6s / T6i / T5i / T4i / T3i / T2i / SL1 / T5 / T3**

EOS Rebel T6s/T6i Only: Battery Grip BG-E18, Battery Pack LP-E17, Battery Charger LC-E17, GPS Receiver GP-E2, Interface Cable IFC-130U, Remote Switch RS-80N3<sup>†</sup>, Interface Cable IFC-200U, Interface Cable IFC-500U, Wireless Remote Controller RC-6A

EOS Rebel T5i/T4i/T3i/T2i Only: Battery Grip BG-E8, Battery Pack LP-E8, Battery Charger LC-E8, Battery Magazine BGM-E8L, AC Adapter Kit ACK-E18, USB Interface Cable IFC-400PCU, Stereo AV Cable AVC-DC400ST, External Microphone, Interface Cable IFC-500U, Mini-HDMI Cable HTC-100

EOS Rebel SL1 Only: Battery Pack LP-E12, Battery Charger LC-E12, Stereo AV Cable AVC-DC400ST, AC Adapter Kit ACK-E15, GPS Receiver GP-E2 (Rebel T5i, T4i only), External Microphone, Rubber Frame Ef, Dioptric Adjustment Lens E Series, Eyepiece Extender EP-EX15 II, Angle Finder C

EOS Rebel T5/T3 Only: Battery Pack LP-E10, Battery Charger LC-E10, AC Adapter Kit ACK-E10, GPS Receiver GP-E2 (Rebel T5 only), External Microphone, Eyecup Ef, Magnifier MG-Ef

**EOS M**

Battery Pack LP-E12, Battery Charger LC-E12, AC Adapter Kit ACK-E12, Stereo AV Cable AVC-DC400ST, Interface Cable IFC-130U, Interface Cable IFC-200U, Interface Cable IFC-500U, External Microphone, Wireless Remote Controller RC-6, GPS Receiver GP-E2, Mount Adapter EF-EOS M

**EOS-1v**

Power Drive Booster PB-E2, Battery Magazine BM-E2, Ni-MH Pack NP-E2, Ni-MH Charger NC-E2, Wireless Controller LC-5, Anti-Fog Eyepiece Ec, Eyepiece Extender EP-EX15, Eyecup Ec-II, Rubber Frame Ec, Dioptric Adjustment Lens E Series, Angle Finder C, Timer Remote Controller TC-80N3, Remote Switch RS-80N3, Extension Cord ET-1000N3, Remote Switch Adapter RA-N3, Battery Pack BP-E1, EOS Link Software ES-E1, Ec-Series Focusing Screens, Extension Cord 100T3<sup>ΔΔΔ</sup>, Remote Switch 60T3<sup>ΔΔΔ</sup>, Cable Release Adapter T3<sup>ΔΔΔ</sup>, Remote Switch Adapter T3<sup>ΔΔΔ</sup>

**Connect Station CS100**

EOS-1D X, EOS 5DS, EOS 5DS R, EOS 5D Mark III, EOS 6D, EOS 7D Mark II, EOS 70D, EOS 60D/60Da, EOS Rebel T6s, EOS Rebel T6i, EOS Rebel T5i, EOS Rebel T4i, EOS Rebel T3i, EOS Rebel T2i, EOS Rebel SL1, EOS Rebel T5, EOS Rebel T3, EOS M

<sup>†</sup> The EOS 5D Mark III and EOS 7D require a firmware upgrade to be compatible with the GPS Receiver GP-E2. Firmware updates are available on each individual product's webpage on the Canon website. See [usa.canon.com/consumer](http://usa.canon.com/consumer) for our full line of products.

<sup>ΔΔ</sup> The WFT-E7A requires a firmware update and Interface Cables IFC-40AB II or IFC-150AB II to work with the EOS 5DS, EOS 5DS R and EOS 7D Mark II.







“ For two decades I’ve used Canon EOS lenses professionally – they always deliver the superior results my clients and I demand. No matter what the situation, EOS lenses allow me complete creative freedom, reliability, and unsurpassed performance. ”



Adam Jones  
Explorer of Light

©Adam Jones

# EF LENS TECHNOLOGY

Great images start with great optics. An SLR camera is often defined by the quality, breadth and scope of its lens system. As such, Canon 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 engineered in Canon’s laboratories, proven in the field and beloved by generations of photographers. With over 100 million lenses produced<sup>◇</sup>, Canon EF lenses have proven they are capable for a multitude of photographic situations.

**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 reduced, 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



Image Stabilizer ON



Image Stabilizer OFF

<sup>◇</sup> Refers to EF Lenses, EF-S Lenses and Cinema Lenses produced worldwide from 1987 to First Half of 2014.



## 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

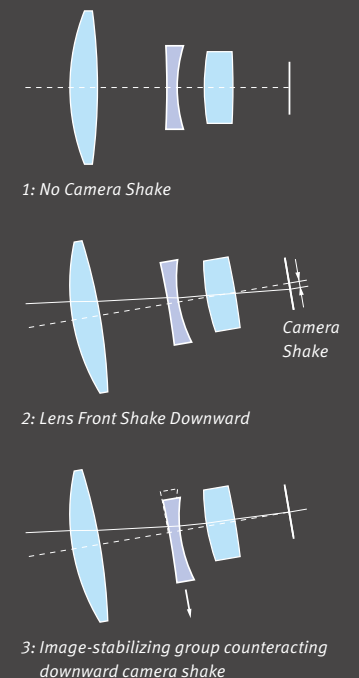
**How the Image Stabilizer Works** – The Optical Image Stabilizer shifts a lens group in parallel to the focal plane. When the lens jerks due to camera shake, the light rays from the subject are bent relative to the optical axis, resulting in a blurred image. Camera shake is detected by two gyro sensors (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



EF and EF-S lenses, 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.

**Hybrid Image Stabilizer** HYBRID IS  
 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 designed to counteract rotational or linear camera shake and works well for most camera shooting situations. To help compensate for linear camera shake, an acceleration sensor determines the amount of shift-based camera movement. 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. Hybrid IS enhances the effects of Optical Image Stabilizer, especially during macro shooting, which may be difficult for conventional image stabilization technologies.



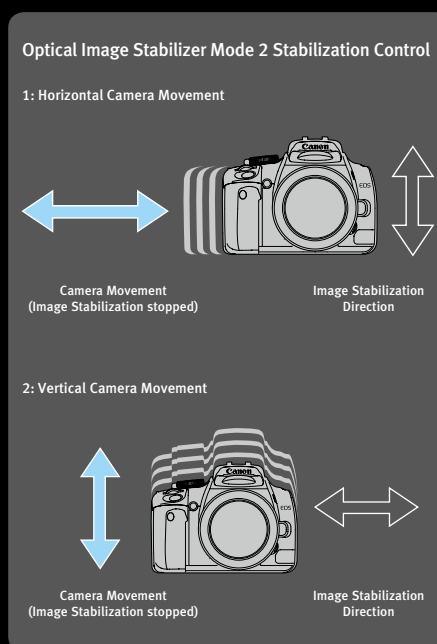
Linear Camera Shake



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.



### Dynamic Image Stabilizer

During video shooting, Canon's Dynamic IS stabilization offers a wide 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.

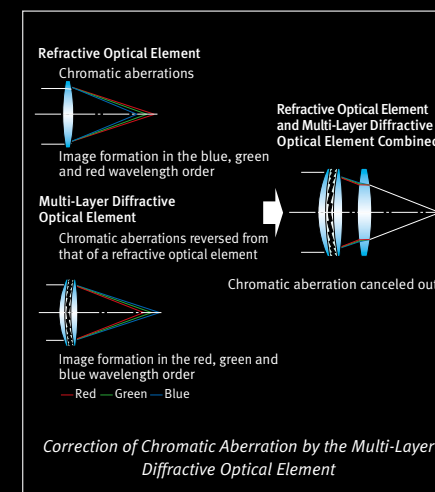
### STM

A challenge of shooting DSLR video has been achieving continuous autofocus. In response, certain Canon EF and EF-S lenses now offer a stepping motor (STM) drive, designed to deliver smooth and quiet continuous AF during video shooting when paired with the Movie Servo AF feature found on select EOS cameras. Canon's decades of optical experience 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 lightweight design; whereas

the EF-S 18–135mm f/3.5–5.6 IS STM uses a lead-screw type, which prioritizes AF performance, offering smooth and quiet operation.

### Diffraction Optics

Canon's use of diffractive optics (DO) results in high-performance lenses that are much smaller and lighter than traditional designs. Canon's 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 help reduce chromatic aberrations significantly at various wavelengths when combined with conventional glass optics. This technology results in smaller lenses that provide amazing



results. Canon has also developed a 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, helping ensure 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.

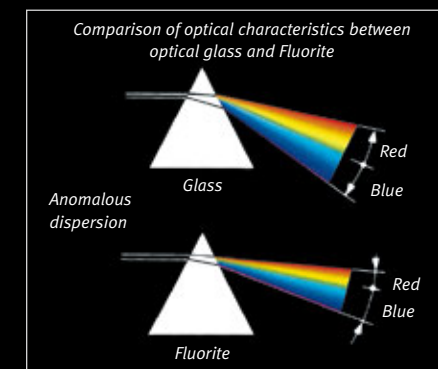


### L-Series Lenses

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

### 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

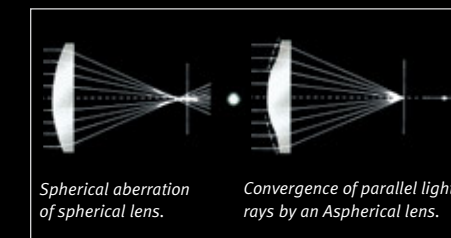


and EF 300mm f/4L IS USM – employ Canon's Ultra-low Dispersion glass to help minimize this effect, providing much improved contrast and sharpness. Even more effective at suppressing chromatic aberration are fluorite elements, used in high-end super-telephoto L-series lenses. Composed of crystallized 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 can appear blurred because there is no sharp point of focus. Canon's aspherical elements use a varying curved surface to help 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 ghosting 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 significantly minimizes 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 helps minimize soiling, smears and fingerprints for easy cleaning.

### ASC

Air Sphere Coating (ASC) technology is designed to help reduce backlit flare and ghosting significantly typical with multi-optic zoom lenses. ASC includes air spheres that are applied over the lenses' conventional vapor deposition coatings.

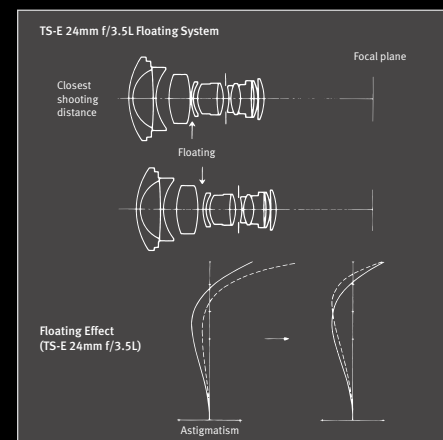
### Focus Preset

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 can be effectively suppressed throughout the focusing range, helping to assure 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' tilt mechanism is used to achieve a pan focus effect that allows focusing all the way back.

## Inner and Rear Focusing

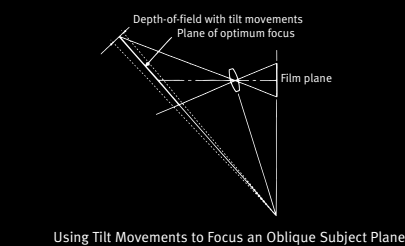
I/R

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 open apertures, and shallow focus at smaller apertures.

## TS-E Movements

Tilt Movements alter the angle of the plane of focus between the lens and focal plane, and Shift Movements move the lens' optical axis in parallel.



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



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

## 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.

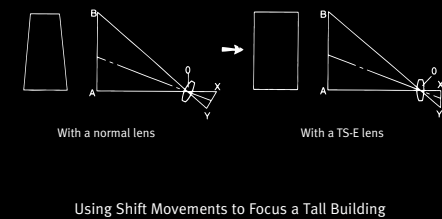


Shift was used to adjust the image to keep the building perpendicular all the way to the top.



Without shift, the image of the building leans in at the top.

**Shift Movements** – By keeping the camera level, and using the shift function to raise the lens instead, this perspective effect can be corrected. With the camera's focal plane set parallel to the building, shifting the lens upward will obtain a more rectangular-looking building.



Using Shift Movements to Focus a Tall Building

## Dust- and Water-Resistant Construction

DW-R

Most L-series EF telephoto lenses are dust- and water-resistant thanks to rubber seals at the switch panels, exterior seams, drop-in filter compartments and lens mounts. Moving parts, such as the focusing ring and switches, are also designed to help keep out environmental contaminants, providing reliable performance under harsh conditions.



EF 8–15mm f/4L Fisheye USM • f/4 • 1/204 sec.

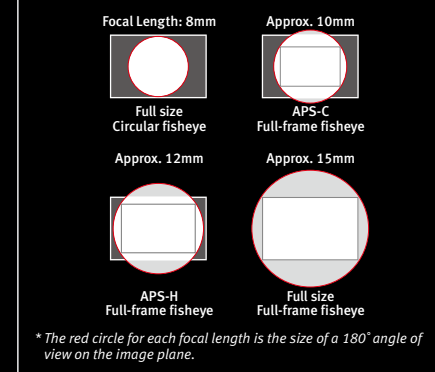


EF 8–15mm f/4L Fisheye USM • f/5.6 • 1/200 sec.

## Specialty Lenses

**Fisheye** – With its unique focal length range, the EF 8–15mm f/4L Fisheye USM offers an interesting and exciting perspective. 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 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 Mark II, EOS 70D 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.

**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' 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 six 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 mount is 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 lens technologies such as USM and Hybrid IS, as well as new optical designs, such as EF-S lenses and Cinema EOS lenses as they are developed by Canon.

## 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 camera, 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

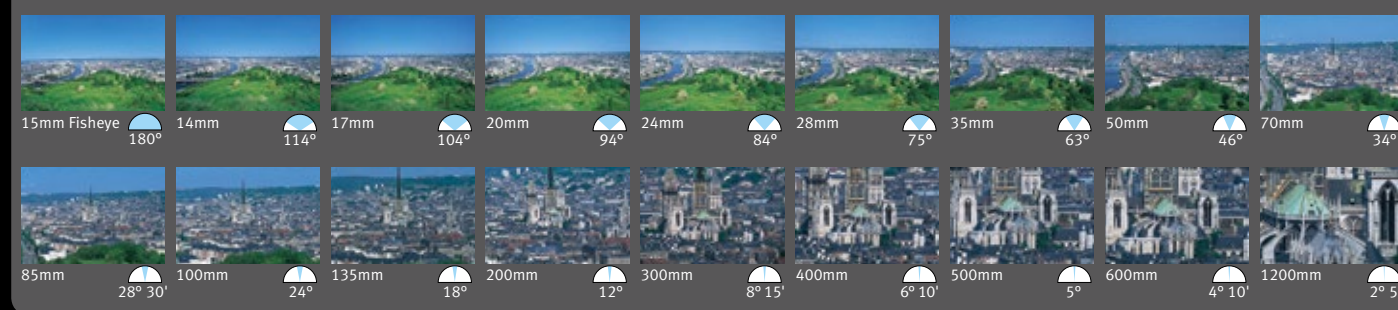


5.0x

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 amazingly sharp, virtually distortion-free, and fast – making them great choices for low-light shooting. EF ultra-wide zooms can deliver stunning perspectives. The added versatility of zooming makes them perfect for enthusiasts and professionals alike.

# EF LENSES for EOS Cameras

### EF/EF-S Lenses

#### Ultra-Wide Zoom

		
<b>EF 8–15mm f/4L Fisheye USM</b>	<b>EF-S 10–18mm f/4.5–5.6 IS STM*</b>	<b>EF-S 10–22mm f/3.5–4.5 USM*</b>
		
UD AL  CA I/R FT-M SWC FASC DW-R	UD AL <sub>2</sub> OIS STM CA I/R FT-M	S-UD AL <sub>3</sub>  CA I/R FT-M

			
<b>EF 11–24mm f/4L USM</b>	<b>EF 16–35mm f/2.8L II USM</b>	<b>EF 16–35mm f/4L IS USM</b>	<b>EF 17–40mm f/4L USM</b>
			
Cap-F S-UD UD AL  CA I/R FT-M SWC DW-R ASC	UD AL <sub>2</sub>  CA I/R FT-M DW-R	UD AL <sub>3</sub> OIS  CA I/R FT-M FASC DW-R	S-UD AL <sub>2</sub>  CA I/R FT-M DW-R

#### Wide-Angle

				
<b>EF 14mm f/2.8L II USM</b>	<b>EF 20mm f/2.8 USM</b>	<b>EF 24mm f/1.4L II USM</b>	<b>EF 24mm f/2.8 IS USM**</b>	<b>EF-S 24mm f/2.8 STM</b>
				
UD <sub>2</sub> AL <sub>2</sub>  I/R FT-M DW-R	 I/R Float FT-M	UD <sub>2</sub> AL <sub>2</sub>  CA I/R Float FT-M SWC DW-R	AL <sub>2</sub> OIS  CA I/R FT-M	AL <sub>2</sub> STM CA FT-M

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

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


\* For EOS 7D Mark II, 7D, 70D, 60D, 60Da, 50D, 40D, 30D, 20D, 20Da, Rebel T6s, T6i, T5i, T4i, SL1, T3i, T2i, T5, 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.



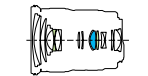
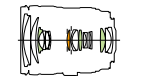

EF "standard" zooms cover a popular range of focal lengths for most photographers, from wide-angle through telephoto. This versatility makes them great for a wide range of shooting situations. EF medium telephoto lenses help deliver natural perspective with wide maximum apertures that make them ideal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

# EF LENSES for EOS Cameras

#### Standard Zoom

				
<b>EF-S 15–85mm f/3.5–5.6 IS USM*</b>	<b>EF-S 17–55mm f/2.8 IS USM*</b>	<b>EF-S 18–55mm f/3.5–5.6 IS STM*</b>	<b>EF-S 18–55mm f/3.5–5.6 IS II*</b>	<b>EF-S 18–135mm f/3.5–5.6 IS STM*</b>
				
UD AL <sub>2</sub> OIS  CA I/R	UD AL <sub>2</sub> OIS  CA I/R FT-M	AL OIS STM CA I/R FT-M	AL OIS CA	UD AL <sub>2</sub> OIS DIS STM CA I/R

				
<b>EF-S 18–135mm f/3.5–5.6 IS*</b>	<b>EF-S 18–200mm f/3.5–5.6 IS*</b>	<b>EF 24–70mm f/2.8L USM</b>	<b>EF 24–70mm f/2.8L II USM</b>	<b>EF 24–70mm f/4L IS USM</b>
				
UD AL OIS CA I/R	UD <sub>2</sub> AL OIS CA	UD AL <sub>2</sub>  CA I/R FT-M DW-R	S-UD UD <sub>2</sub> AL  CA I/R FT-M FASC DW-R	UD <sub>2</sub> AL OIS  CA I/R FT-M FASC DW-R

	
<b>EF 24–105mm f/3.5–5.6 IS STM</b>	<b>EF 24–105mm f/4L IS USM</b>
	
UD AL <sub>2</sub> OIS STM CA I/R FT-M	S-UD AL <sub>2</sub> OIS  CA I/R FT-M



EF 24–105mm f/4L IS USM • f/11.0 • 1/13 sec.

#### Standard and Medium Telephoto

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

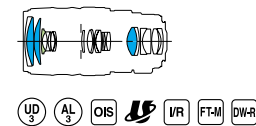
# EF LENSES for EOS Cameras

# EF LENSES for EOS Cameras

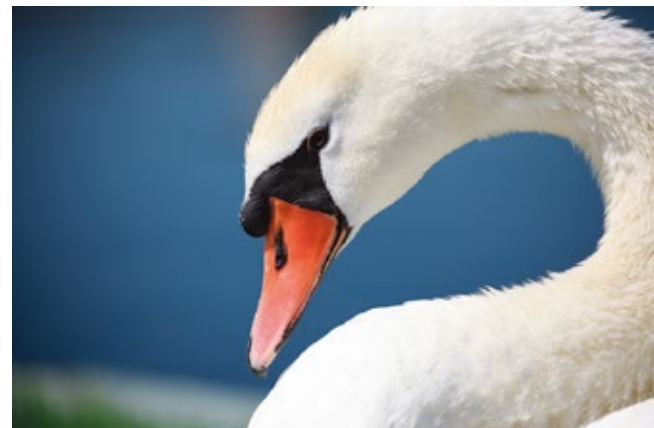
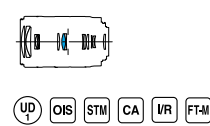
### Telephoto Zoom



EF 28–300mm f/3.5–5.6L IS USM



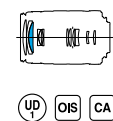

EF-S 55–250mm f/4–5.6 IS STM\*



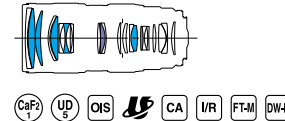
EF 70–300mm f/4–5.6L IS USM • f/5.6 • 1/1600 sec.



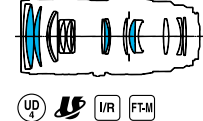
EF-S 55–250mm f/4–5.6 IS II\*



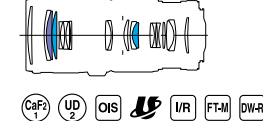

EF 70–200mm f/2.8L IS II USM



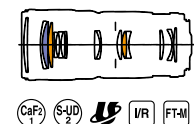

EF 70–200mm f/2.8L USM



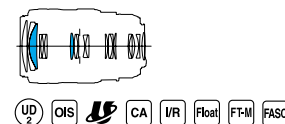

EF 70–200mm f/4L IS USM



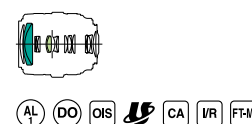

EF 70–200mm f/4L USM



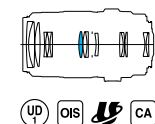

EF 70–300mm f/4–5.6L IS USM



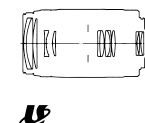

EF 70–300mm f/4.5–5.6 DO IS USM



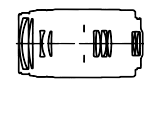

EF 70–300mm f/4–5.6 IS USM



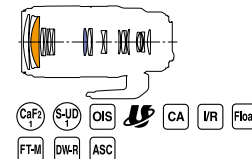

EF 75–300mm f/4–5.6 III USM



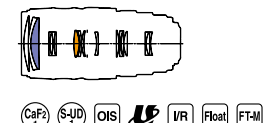

EF 75–300mm f/4–5.6 III




NEW EF 100–400mm f/4.5–5.6L IS II USM



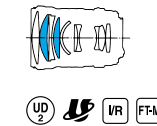

EF 100–400mm f/4.5–5.6L IS USM



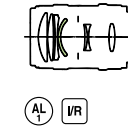
### Telephoto



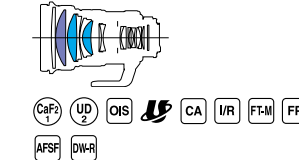
EF 135mm f/2L USM



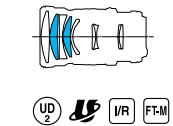

EF 135mm f/2.8 w/Softfocus



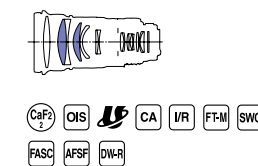

EF 200mm f/2L IS USM



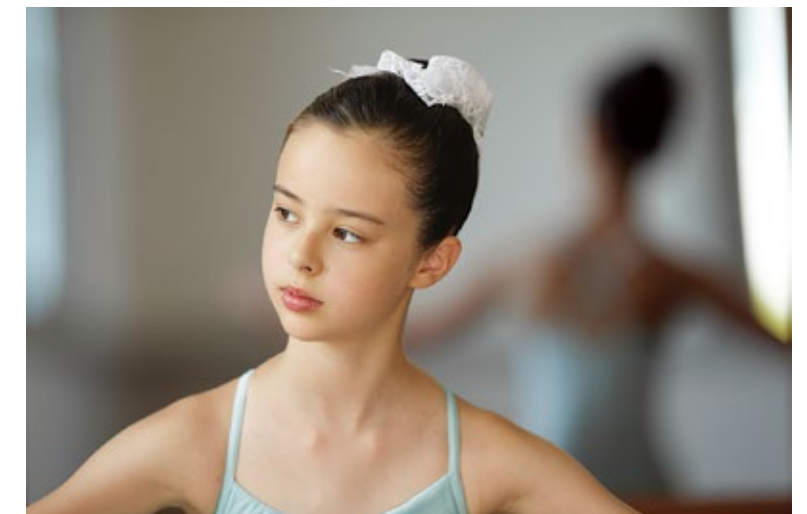
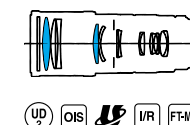

EF 200mm f/2.8L II USM




EF 300mm f/2.8L IS II USM




EF 300mm f/4L IS USM

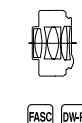


EF 300mm f/2.8L IS II USM • f/2.8 • 1/160 sec.

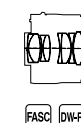
### Extenders



EXTENDER EF 1.4x III




EXTENDER EF 2x III




Extension Tube EF 12 II  
Extension Tube EF 25 II

Diagram: ● Fluorite Lens ● Super UD Lens ● UD Lens ● Aspherical Lens ● DO Lens Icons: See “EF Lens Technology” section.

\* For EOS 7D Mark II, 7D, 70D, 60D, 60Da, 50D, 40D, 30D, 20D, 20Da, Rebel T6s, T6i, T5i, T4i, SL1, T3i, T2i, T5, T3, T1i, XSi, XS and all versions of EOS Digital Rebel only.

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

## Up Close Detail from Afar.

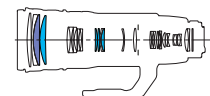
Distinguished by their white color and seen at major sporting events around the world, the powerful EF super-telephotos are also ideal for nature, scenic and even outdoor fashion photography. Canon's ring-type USM delivers a high level of focusing performance, and most feature Canon's superb Image Stabilization.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

# EF LENSES for EOS Cameras

### Super Telephoto



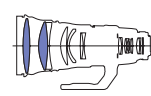
EF 200-400mm f/4L IS USM Extender 1.4X



CaF<sub>2</sub> UD OIS IIR CA I/R FT-M SWC FASC AFSF DW-R



EF 400mm f/2.8L IS II USM



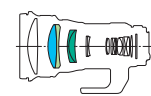
CaF<sub>2</sub> OIS IIR CA I/R FT-M SWC FASC AFSF DW-R



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



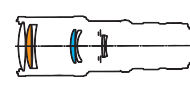
EF 400mm f/4 DO IS II USM



UD AL DO OIS IIR CA I/R FT-M SWC FASC FP AFSF DW-R



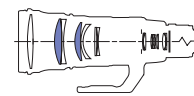
EF 400mm f/5.6L USM



S-UD UD IIR FT-M



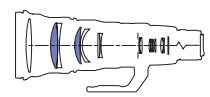
EF 500mm f/4L IS II USM



CaF<sub>2</sub> OIS IIR CA I/R FT-M SWC FASC FP AFSF DW-R



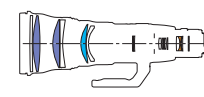
EF 600mm f/4L IS II USM



CaF<sub>2</sub> OIS IIR CA I/R FT-M SWC FASC FP AFSF DW-R



EF 800mm f/5.6L IS USM



CaF<sub>2</sub> S-UD UD OIS IIR CA I/R FT-M FP AFSF DW-R

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

## Solutions for Specialized Shooting.

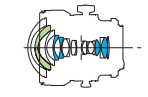
Canon's manual focus TS-E (Tilt-Shift) lenses provide tilt capability to alter the plane of focus and shift capability for perspective correction, offering solutions for numerous applications, from architectural to studio photography. Canon also offers a range of close-up, high-magnification shooting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

# EF LENSES for EOS Cameras

### Tilt-Shift



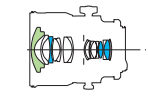
TS-E 17mm f/4L



UD AL CA I/R Float SWC



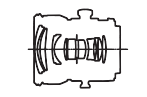
TS-E 24mm f/3.5L II



UD AL CA I/R Float SWC



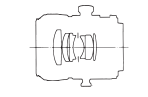
TS-E 45mm f/2.8



I/R Float



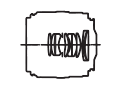
TS-E 90mm f/2.8



### Macro



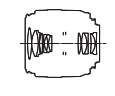
EF 50mm f/2.5 Compact Macro



Float



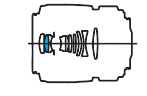
EF-S 60mm f/2.8 Macro USM\*



IIR CA I/R Float FT-M



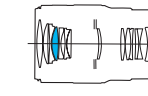
MP-E 65mm f/2.8 1-5x Macro Photo



UD Float



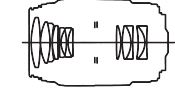
EF 100mm f/2.8L Macro IS USM



UD OIS IIR CA I/R FT-M DW-R



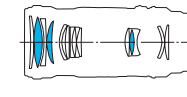
EF 100mm f/2.8 Macro USM



IIR I/R Float FT-M



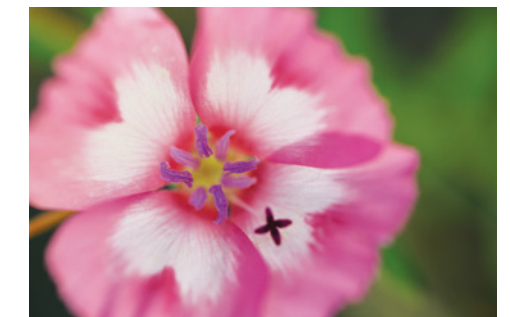
EF 180mm f/3.5L Macro USM



UD IIR I/R Float FT-M



Life-Size Converter EF



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

### EF-M Lenses

#### Wide-Angle



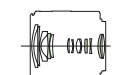
EF-M 22mm f/2 STM\*\*



AL STM CA Float FT-M



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



AL OIS DNS STM CA I/R

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

\* For EOS 7D Mark II, 7D, 70D, 60D, 60Da, 50D, 40D, 30D, 20D, 20Da, Rebel T6s, T6i, T5i, T4i, SL1, T3i, T2i, T5, T3, T1i, XSi, XS and all versions of EOS Digital Rebel only.  
\*\* For EOS M only.







“Never have I used such a versatile, powerful Speedlite system as the 600EX-RT Speedlite. Whether I'm shooting run-and-gun events or portraiture on location, the Speedlite flashes are as dependable as they get.”



Tyler Stableford  
Explorer of Light

©Tyler Stableford

# SPEEDLITE TECHNOLOGY

Integral to the EOS System, Canon Speedlite flashes 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 Speedlite flashes can 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 pre-flash 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 pre-flash. 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 Speedlite flashes such as the 600EX-RT, 430EX II, 320EX, 270EX II, 90EX, MT-24EX, or MR-14EX II 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 helps minimize 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 when the shutter button is pressed. Next, a pre-flash is fired and the metering sensor takes readings. The ambient and pre-flash readings are compared. The metering areas having small differences are selected as the main flash exposure areas. Areas with large discrepancies between ambient and pre-flash readings are excluded or down-weighted because they are assumed to contain a highly

SLR Compatibility				
Camera Model	E-TTL	E-TTL II	A-TTL / TTL	A-TTL / TTL
EOS-1D X / EOS-1Ds Mark III / EOS-1D Mark IV	No	Yes*	Not Possible	Not Possible
EOS 5DS / 5DS R	No	Yes*	Not Possible	Not Possible
EOS 5D Mark III	No	Yes*	Not Possible	Not Possible
EOS 6D	No	Yes*	Not Possible	Not Possible
EOS 5D Mark II	No	Yes*	Not Possible	Not Possible
EOS 7D Mark II / 7D	No	Yes*	Not Possible	Not Possible
EOS 70D / 60D / 50D / 40D / 30D	No	Yes*	Not Possible	Not Possible
EOS Rebel T6s / T6i / T5i / T4i / SL1 / T3i	No	Yes*	Not Possible	Not Possible
EOS Rebel T5 / T3 / T2i / T1i / XSi / XS	No	Yes*	Not Possible	Not Possible
EOS Digital Rebel XTi / XT	No	Yes*	Not Possible	Not Possible
EOS-1v / EOS-3	Yes	No	4-point/3-zone	4-point/3-zone
EOS ELAN 7 <sup>ne</sup>	Yes	Yes	4-point/3-zone	4-point/3-zone
EOS Rebel T2 / T2 Date	No	Yes	Not Possible	Not Possible
EOS Rebel K2 / K2 Date	Yes	No	4-point/3-zone	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 II / 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.

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 Speedlite flashes and E-TTL compatible EOS cameras. The EX-series Speedlite flash's pre-flash 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 pre-flashing 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 flash 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 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.



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



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

## 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, Macro Ring Lite MR-14EX II, Macro Twin Lite MT-24EX, and the built-in flash of the EOS 7D Mark II).

## 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 flash 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.

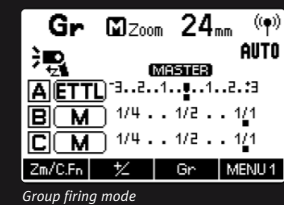
\* A-TTL and TTL are not compatible with DSLR cameras. See lens chart for a listing of lenses that supply distance information. \*\* Ambient exposure cannot be adjusted when the camera is set to Bulb mode or in low-light situations when the camera is set to Program AE or A-DEP. \*\*\* Unlike conventional 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 Speedlite flashes, 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 Speedlite flashes have made multiple-flash photography simple, wireless and automatic. Using the Speedlite 600EX-RT, Macro Ring Lite MR-14EX II, or Speedlite Transmitters ST-E2 or ST-E3-RT as a master unit, wireless signals are transmitted to numerous Speedlite flashes, creating myriad possibilities for lighting, no matter the location. Select EOS cameras have Integrated Speedlite Transmitters, allowing users to wirelessly control EX-series Speedlite flashes and doing away with the need for an external master unit. The Speedlite 600EX-RT and the Speedlite Transmitter ST-E3-RT use two-way radio signals in addition to traditional wireless.

### Wireless Radio Control

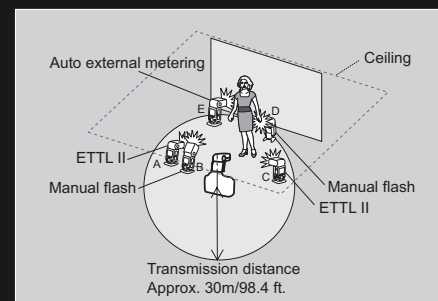
For sophisticated wireless flash setups, the Speedlite 600EX-RT and the Speedlite Transmitter ST-E3-RT represent the next generation in wireless flash systems. In addition to traditional optical wireless transmission, both the Speedlite 600EX-RT and the Speedlite Transmitter ST-E3-RT facilitate radio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

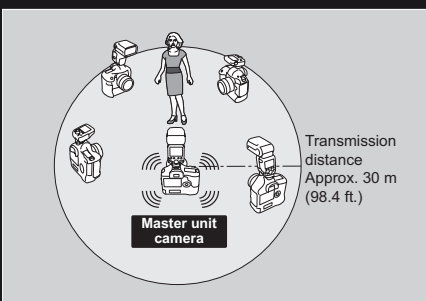
### E-TTL/E-TTL II Wireless Autoflash Control

Up to three groups (for main, fill and background) of slave units can be set up for comprehensive control of flash lighting. The Speedlite flash 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. Select EOS cameras with Integrated Speedlite Transmitters can control and trigger external



**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.

Speedlites wirelessly through their built-in pop-up flash. The EOS 7D Mark II camera can control A, B, and C groups and also has a modeling flash feature for previewing the output of your external Speedlite flashes, available by pressing the depth-of-field button. Even with multiple Speedlite flashes, the modeling flash fires according to the ratios you have set. E-TTL/E-TTL II wireless autoflash also supports other Speedlite flash features including FE Lock, FP Flash, Flash Exposure Bracketing/Compensation, and Stroboscopic Flash. Finally, for macro shooting, the Macro Ring Lite MR-14EX II and Macro Twin Lite MT-24EX can be used as master units as well.



**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.



## 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 Speedlite flashes 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 outstanding 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 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.
- 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 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 II

- Twin-tube ring lite designed for close-up photography with EF Macro lenses; flash tubes can fire together or independently.
- Shorter recycling time and reduced size when compared to Macro Ring Lite MR-14EX.
- Supports E-TTL (TTL/E-TTL) wireless autoflash in conjunction with one or more Speedlite 600EX-RT flashes.
- White LED 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 flash.



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.

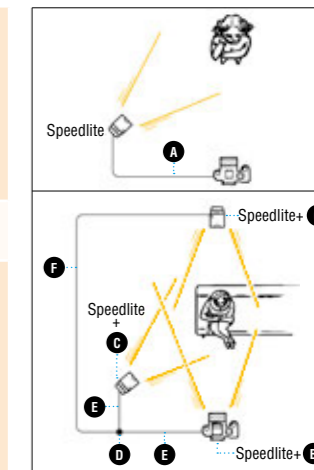


Color Filter Holder SCH-E1

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 Speedlite flashes.	For off-camera applications of Speedlite flash units, this adapter will accept one Speedlite flash 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 II	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: 2.7 x 4.7 x 2.8 in. 69.6 x 118.8 x 71.4mm Flash Unit: 5.1 x 4.4 x 1.0 in. 129.6 x 112.1 x 25.3mm	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)	16.05 oz./455g (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	All EOS cameras	All EOS cameras	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	34.4 ft./10.5m	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-E4; Transistor Pack E	AA (Alkaline, re-chargeable NiCd, Lithium-ion, Ni-MH) batteries (x4); Compact Battery Pack CP-E4; Transistor Pack E

Compatibility Chart

	600EX-RT	580EX II†	430EX II	320EX	270EX II	MT-24EX	MR-14EX II	MR-14EX	Weight
<b>Compact Battery Pack CP-E4 (w / Alkaline Batteries)</b>	●	●	—	—	—	●	●	●	5.5 oz./155g
Recycling Time (Sec.)	0.1~2.0	0.1~2.0	—	—	—	0.1~3	0.1~5.5	0.1~3	
Shooting Capacity (No. of Flashes)	100~700	350~2,450	—	—	—	450~2,800	100~700	120~800	5.5 oz./155g
<b>Compact Battery Pack CP-E3†</b>	●	●	—	—	—	●	—	●	

† Discontinued product, for reference only.





# THE CENTER OF YOUR IMAGING WORLD

## Connect Station CS100

The Canon Connect Station CS100 provides an easy and convenient way to store, organize, view and access all of your photos and videos. Designed to work seamlessly with Canon cameras and camcorders, built-in Wi-Fi® and Near Field Communication (NFC) enable virtually instant transfers to the Connect Station CS100. Whatever you capture, the Connect Station CS100 makes it possible for you to easily enjoy every photo and video with all of your family and friends.



**Up to 1 TB of Storage**  
With accumulating photo and video files, you might find it difficult to search for the files. The Canon Connect Station CS100 is the ideal long-term storage solution, boasting virtually a terabyte (about 1,000 GB) of storage so you can put all of your images, with the capacity for approx. 150,000 photos or approx. 70 hours of video content,\* in one easily accessible place.

**Universal Connectivity**  
The Connect Station CS100 simplifies file transfers from Canon cameras and camcorders by incorporating a USB connection as well as SD and CF card slots. ^

**Import Images via NFC**  
You can save time on importing photo and video files to the Connect Station CS100 by utilizing built-in NFC. NFC allows for streamlined, wireless transfers without having to use additional cables. Simply hold the NFC-equipped Canon camera or camcorder\*\* close to the Connect Station CS100 to automatically import new photos and videos. Previously imported photos and videos are recognized, so you will never waste space transferring multiple copies.

**Secure Backups**  
The Connect Station CS100 provides secure storing and backups for all photos and videos. To copy or restore the entire digital image library, just connect the Connect Station to an external USB HDD (sold separately).



**Show in High Quality**  
Enjoy your photos and videos in stunning quality and see the details on a large screen TV. With an HDMI cable, the Connect Station can connect to HDTV allowing everyone to conveniently view all files on a large screen at once. Photos will be displayed in clear, high resolution and high bit-rate videos will play smoothly.

**Create Albums & Slide Shows**  
By using a web browser or TV, it is possible to create albums and slide shows from the photos and videos that have been downloaded to the Connect Station CS100. Choose timing, fade options, even background music – ideal for adding personal touches to your album, even if a computer is not available.

**Support for Your Photos and Videos**  
The Connect Station CS100 accepts photos and videos in various file formats, making it the ideal central storage/sharing/viewing hub. Whether the file is a JPEG, RAW, MP4, MOV or AVCHD, the Connect Station CS100 will support it.

**View and Transfer Photos from a Web Browser^**  
The Connect Station CS100 is designed to make image access and management convenient. Using a web browser, view, upload or download photos to and from the Connect Station CS100 almost anywhere with a compatible smartphone, tablet or PC.\*\*\*

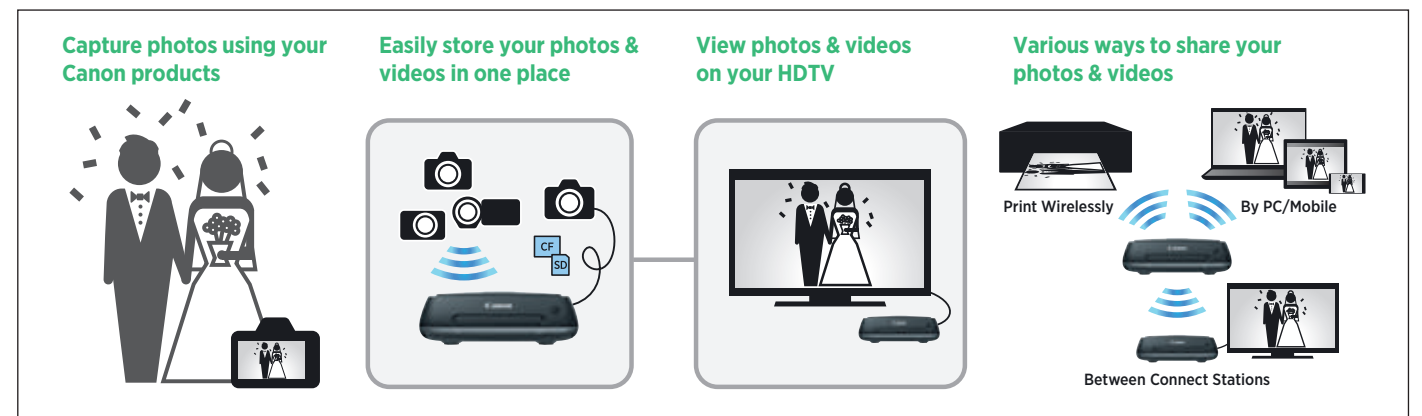


**Print Wirelessly**  
You can print wirelessly right from the Connect Station CS100 to a compatible PictBridge (Wireless LAN)-enabled Canon PIXMA, SELPHY or other printer.

**CANON iMAGE GATEWAY# & SNS**  
Keep everyone connected through social media sites and easily share what you have captured with the Connect Station. Through CANON iMAGE GATEWAY#, you can upload your photo and video files directly from the Connect Station to select social networking sites.

**Sharing Images Between Connect Stations**  
Transferring photos with friends and family is simple with the Connect Station CS100. The Connect Station can send files to another Connect Station without having to use a computer or additional wired set-ups, making it easy for everyone to view your captured moments wherever they are located.

\* Calculated with approx. 6.6MB for each photo and with average 32Mbps Full HD video.  
\*\* Wireless image transfer is compatible only with Canon cameras and camcorders equipped with NFC and released in 2015.  
\*\*\* Videos cannot be uploaded to, or viewed/downloaded from Connect Station through a browser.  
\*\*\*\* Compatible with printers supporting PictBridge (Wireless LAN).  
# One-time registration is required on CANON iMAGE GATEWAY online photo album.  
^ Compatible with Canon Cameras and camcorders released in 2010 and later.  
◇ In case of operating this product through Web browser installed in terminals such as smartphones, tablets, and PCs. Normal operation has been confirmed for the following OS and Web browsers: Windows 8 and Windows 7; Chrome ver. 36 or later iOS (OS ver. 6/7); Safari Android (OS ver. 4.2 or later); Chrome ver. 26 or later. If JavaScript is disabled by the Web browser setting, images will not be displayed properly. You need to connect the terminal to the same access point or a router as Connect Station.  
◇◇ CR2 format only. JPEG thumbnail file in RAW image file is shown. RAW image processing is not available.



## Batteries

To add more power, ergonomics and speed to your EOS SLR camera's 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 camera.



EOS 5D Mark III camera with Battery Grip BG-E11

### Battery Grips

<b>Weight</b>	9.35 oz./265g (without batteries)	11.6 oz./330g (without batteries)	10.4 oz./295g (without batteries)	10.2 oz./290g (without batteries)
<b>Compatibility</b>	EOS Rebel T6s, T6i	EOS 7D Mark II	EOS 70D	EOS 6D
<b>Functions</b>	AE/FE Lock/ Index/ Reduce button, Main Dial, AF point selection/ Magnify button, Aperture/ exposure compensation button, Attach/ Detach button, Vertical-grip operation switch	Shutter-Release button, AE/FE Lock/ Index/Reduce button, Main Dial, AF-frame-select button, AF area Selection lever, Aperture/ Exposure compensation button, and Vertical-grip operation switch	Shutter-Release button, Main Dial, AF-point selection/Magnify button, AE/FE Lock/Index/Reduce button, AF start button, AF area selection mode button, and Vertical-grip operation switch	Shutter-Release button, AE/FE Lock button, Main Dial. AF-point-select button, Vertical-grip operation switch
<b>Power Source</b>	LP-E17 (x2); AA-size battery (x6); or AC Adapter Kit ACK-E18	LP-E6 (x2); AA-size battery (x6); or AC Adapter Kit ACK-E6	LP-E6 (x2); AA-size battery (x6); or AC Adapter Kit ACK-E6	LP-E6 (x2); AA-size battery (x6); or AC Adaptor ACK-E6

<b>Weight</b>	10.9 oz./310g (without batteries)	10.4 oz./295g (without batteries)	8.1 oz./230g (without batteries)
<b>Compatibility</b>	EOS 5DS, 5DS R, 5D Mark III	EOS 60D, 60Da	EOS Rebel T5i, T4i, T3i, T2i
<b>Functions</b>	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
<b>Power Source</b>	LP-E6 (x2); AA-size battery (x6); or AC Adaptor ACK-E6	LP-E6 (x2); AA-size battery (x6); or AC Adapter ACK-E6	LP-E8 (x2); AA-size battery (x6); or AC Adapter ACK-E8

\* Accepts optional Hand Strap E1.

### Power Drive Booster/Battery Pack Chart

<b>Weight</b> (without batteries)	17.1 oz./484g
<b>Compatibility</b>	EOS-1v HS, 1v, 1n, 1, 3
<b>Functions</b>	Shutter-Release button, AE Lock button, FE Lock/Multi-spot Metering button, Main Dial, focusing point selector
<b>Power Source</b>	Ni-MH Battery Pack NP-E2 or Battery Magazine BM-E2 and 8 AA-size Alkaline, Lithium-ion, Ni-MH or Ni-Cd batteries

### Power Drive Booster PB-E2 Accessories

<b>Weight</b>	12.5 oz./354g
<b>Description</b>	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

	Battery Packs							
	<b>Battery Pack LP-E17</b>	<b>Battery Pack LP-E12</b>	<b>Battery Pack LP-E10</b>	<b>Battery Pack LP-E8</b>	<b>Battery Pack LP-E6N</b>	<b>Battery Pack LP-E6</b>	<b>Battery Pack LP-E5</b>	<b>Battery Pack LP-E4N</b>
<b>Weight</b>	1.59 oz./45g	1.2 oz./35g	1.6 oz./45g	1.8 oz./52g	2.82 oz./80g	2.8 oz./80g	1.8 oz./50g	6.5 oz./185g
<b>Compatibility</b>	EOS Rebel T6s, T6i	EOS Rebel SL1, EOS M	EOS Rebel T5, T3	EOS Rebel T5i, T4i, T3i, T2i	EOS 5DS, 5DS R, 5D Mark III, 6D, 5D Mark II, 7D Mark II, 7D, 70D, 60D, 60Da	EOS 5DS, 5DS R, 5D Mark III, 6D, 5D Mark II, 7D Mark II, 7D, 70D, 60D, 60Da	EOS Rebel T1i, XSi, XS	EOS-1D X, 1D Mark IV, 1Ds Mark III, 1D Mark III
<b>Description</b>	Lithium-ion batteries. Each battery's operating specifications are tailored specifically for the cameras they are compatible with.							

	Battery Packs		Battery Chargers				
	<b>Battery Pack NP-E3</b>	<b>Battery Pack BP-511A/ BP-512/ BP-514</b>	<b>Battery Charger LC-E17</b>	<b>Battery Charger LC-E12</b>	<b>Battery Charger LC-E10</b>	<b>Battery Charger LC-E8E</b>	<b>Battery Charger LC-E6</b>
<b>Weight</b>	11.8 oz./325g	2.5 oz./70g	3 oz./85g	2.9 oz./81g	3.0 oz./85g (without cord)	2.9 oz./82g	4.6 oz./130g (without cord)
<b>Compatibility</b>	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 Rebel T6s, T6i	EOS Rebel SL1, EOS M	EOS Rebel T5, T3	EOS Rebel T5i, T4i, T3i, T2i	EOS 5DS, 5DS R, 5D Mark III, 6D, 5D Mark II, 7D Mark II, 7D, 70D, 60D, 60Da
<b>Description</b>	Lithium-ion batteries. Each battery's operating specifications are tailored specifically for the cameras they are compatible with.		Battery chargers that charge battery packs in approximately 2 hours.				

	Battery Chargers				Car Battery Chargers			
	<b>Battery Charger LC-E5</b>	<b>Battery Charger LC-E4N</b>	<b>Battery Charger CG-580</b>	<b>Battery Charger CB-5L</b>	<b>Compact Power Adapter CA-PS400</b>	<b>Car Battery Charger CBC-E6</b>	<b>Car Battery Charger CBC-E5</b>	
<b>Weight</b>	2.8 oz./80g	12.3 oz./350g	5.6 oz./160g	3.5 oz./110g (without cord)	10.1 oz./287g (excluding AC cord)	3.7 oz./105g	4.9 oz./140g	
<b>Compatibility</b>	EOS Rebel T1i, XSi, XS	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 5DS, 5DS R, 5D Mark III, 6D, 5D Mark II, 7D Mark II, 7D, 70D, 60D, 60Da	EOS Rebel T1i, XSi, XS	
<b>Description</b>	Battery chargers that charge battery packs in approximately 2 hours.						A car battery charger that plugs into a car's cigarette lighter. Charging is accomplished in approximately 2.5 hours.	

	DC Couplers / DC Coupler Kit						AC Adapter Kits	
	<b>DC Coupler DR-E18</b>	<b>DC Coupler DR-E15</b>	<b>DC Coupler DR-E12</b>	<b>DC Coupler DR-E10</b>	<b>DC Coupler DR-E8</b>	<b>DC Coupler DR-E6</b>	<b>AC Adapter Kit ACK-E18</b>	
<b>Weight</b>	2.97 oz./84g	0.6 oz./16g	0.5 oz./15g	0.6 oz./17.5g	0.7 oz./20g	3.9 oz./110g	2.97 oz./84g (DC Coupler) 5.65 oz./160g (AC Adapter)	
<b>Compatibility</b>	EOS Rebel T6s, T6i	EOS Rebel SL1	EOS M	EOS Rebel T5, T3	EOS Rebel T5i, T4i, T3i, T2i	EOS 5DS, 5DS R, 5D Mark III, 6D, 5D Mark II, 7D Mark II, 7D, 70D, 60D, 60Da	EOS Rebel T6s, T6i	
<b>Description</b>	Allows the camera to draw power directly from an AC power source when used in conjunction with a compatible AC adapter.							Allows the camera to draw power directly from an AC power source. They are designed to supply uninterrupted power.

	AC Adapter Kits						
	<b>AC Adapter Kit ACK-E15</b>	<b>AC Adapter Kit ACK-E12</b>	<b>AC Adapter Kit ACK-E10</b>	<b>AC Adapter Kit ACK-E8</b>	<b>AC Adapter Kit ACK-E6</b>	<b>AC Adapter Kit ACK-E5</b>	<b>AC Adapter Kit ACK-E4</b>
<b>Weight</b>	0.6 oz./16g (DC Coupler) 6.5 oz./185g (AC Adapter)	0.5 oz./15g (DC Coupler) 6.5 oz./185g (AC Adapter)	0.6 oz./17.5g (DC Coupler) 6.5 oz./185g (AC Adapter)	0.7 oz./20g (DC Coupler) 6.5 oz./185g (AC Adapter)	3.9 oz./110g (DC Coupler) 6.2 oz./175g (AC Adapter)	15.0 oz./425g	14.1 oz./399g
<b>Compatibility</b>	EOS Rebel SL1	EOS M	EOS Rebel T5, T3	EOS Rebel T5i, T4i, T3i, T2i, BG-E8	EOS 5DS, 5DS R, 5D Mark III, 6D, 5D Mark II, 7D Mark II, 7D, 70D, 60D, 60Da	EOS Rebel T1i, XSi, XS	EOS-1DX, 1D Mark IV, 1Ds Mark III, 1D Mark III,
<b>Description</b>	Allows the camera to draw power directly from an AC power source. They are designed to supply uninterrupted power.						

## Wireless File Transmitters and GPS Receivers

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



EOS 7D Mark II camera with Wireless File Transmitter WFT-E7A (Version 2)

### Wireless File Transmitter

<b>Wireless File Transmitter WFT-E7A</b>	<b>Wireless File Transmitter WFT-E7A (Version 2)</b>	<b>Wireless File Transmitter WFT-E6A</b>	<b>Wireless File Transmitter WFT-E5A</b>	
<b>Compatibility</b>	EOS 5DS*, 5DS R*, 5D Mark III, EOS 7D Mark II*	EOS 5DS, 5DS R, 5D Mark III, EOS 7D Mark II	EOS-1D X	EOS 7D
<b>Description</b>	Wireless File Transmitter WFT-E7A 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	EOS-1D Mark IV, 1Ds Mark III, 1D Mark III
<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.	Canon's Wireless File Transmitter WFT-E2A allows photographers to transmit images from cameras directly to a computer over a wired or wireless local area network (LAN), incorporates a number of significant features into a robust, camera-powered system to make wireless transfer up to 492 ft. (150m)** faster, simpler and less cumbersome than WFT-E1A. The WFT-E2A is smaller and attaches to the side of the camera.

\* The WFT-E7A requires a firmware update and Interface Cables IFC-40AB II or IFC-150AB II to work with the EOS 5DS, EOS 5DS R and 7D Mark II.  
\*\* 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.

### GPS Accessories

<b>GPS Receiver GP-E2†</b>	<b>GPS Receiver GP-E1†</b>	
<b>Compatibility</b>	EOS-1D X, 5DS, 5DS R, 5D Mark III*, 6D, 7D*, 70D, EOS Rebel T6s, T6i, T5i, T4i, SL1, T5, EOS M	EOS-1D X
<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.	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.

\* The EOS 5D Mark III and EOS 7D cameras require a firmware upgrade to be compatible with the GPS Receiver GP-E2. Firmware updates are available on each individual product's webpage on the Canon website. See [usa.canon.com/consumer](http://usa.canon.com/consumer) for our full line of products.  
† 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 camera 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>Compatibility</b>	All EOS cameras except EOS 70D, 60D, 60Da, EOS M and Digital Rebel series, 1v Hs, 1v, 3	All EOS cameras except EOS 70D, 60D, 60Da, EOS M and Digital Rebel series, 1v Hs, 1v, 3	All EOS cameras except EOS 70D, 60D, 60Da, 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-6</b>		
<b>Compatibility</b>	EOS 70D, 60D, 60Da, Rebel T6s, T6i, T5i, T4i, SL1, T3i, T5, T3, T2i, T1i, XSi, Digital Rebel XTi/XT, Digital Rebel, ELAN 7 series, ELAN II/IIe, Rebel T2, Ti, 2000, G, X, XS, XSN, IX	EOS 5DS, 5DS R, 5D Mark III, 6D, 5D Mark II, 7D Mark II, 7D, 70D, 60D, 60Da, EOS M, Rebel T6s, T6i, T5i, T4i, SL1, T3i, T2i, T1i, XSi, Digital Rebel XTi/XT, Digital Rebel, ELAN 7 series, ELAN 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.	• 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, 70D, 60D, 60Da 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, 70D, 60D, 60Da, 50D and Digital Rebel and Rebel series, 1v Hs, 1v, 3	N3-compatible cameras*, EOS 1N RS, 1N, 1, A2/A2e, RT**, 630**, 620**, 650**
<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.	• Used with any other T3-compatible accessories for extension. • Cord length: 33 ft./10m.

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



# Peripherals

Designed to help you get the most out of your EOS cameras, Canon offers a number of different accessories, including cables, straps and more, for added convenience and portability.

## Interface & Video Cables

Length	4.9 ft. (1.5m) / 15.4 ft. (4.7m)	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)
Compatibility	EOS 5DS, 5DS R, 7D Mark II	EOS-1D X, 1Ds Mark III, 1D Mark III, 1D Mark IV, 5D Mark III, 6D, 5D Mark II, 7D, 70D, 60D, 60Da, 50D, 40D, Rebel T6s, T6i, T5i, T4i, SL1, T3i, T5, T3, T2i, 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, 5D, 30D, 20D, 20Da, 10D, Rebel T6s, T6i, Digital Rebel XTi, Rebel XT, Digital Rebel / 200 cable: EOS D60, D30	EOS-1D X, 1D Mark IV, 5DS, 5DS R, 5D Mark III, 6D, 5D Mark II, 7D Mark II, 7D, 70D, 60D, 60Da, 50D, Rebel T6s, T6i, T5i, T4i, SL1, T3i, T5, T3, T2i, T1i, EOS M	EOS-1D X, 1D Mark IV, 5D Mark III, 6D, 7D, 70D, 60D, 60Da, EOS M, Rebel T6s, T6i, T5i, T4i, SL1, T3i, T2i	EOS 5D Mark II
Description	USB cables for use with USB 3.0 Micro-B terminals, not compatible with USB Mini-B terminals. A cable protector (sold separately) must always be used. Using the IFC-500U II cable will result in the transfer speed equivalent to using USB 2.0, but it is designed to for a USB 3.0 Micro-B terminal.		D6: 6-pin/6-pin, D4: 4-pin/4-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 5DS, 5DS R, 7D Mark II. \*\* Comes standard with the EOS-1D X, 1Ds Mark III, 1D Mark IV, 1D Mark III, 5D Mark II, 7D, 60D, 60Da, 50D, 40D, Rebel T2i, T1i, XSi, XS. \*\*\* 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, 60Da, Rebel T3i, T2i.

## Connect Station

Dimensions (W x H x D)	Approx. 6.13 x 2.01 x 6.13 in. / 155.6 x 51.1 x 155.6mm
Weight	6.5 oz. / 185g
Description	A central storage device for managing, storing and viewing photos and videos. Up to 1 TB is available. Built-in Wi-Fi® and NFC helps enable wireless transfer of photos and videos (wireless transferring available only with EOS, PowerShot cameras and VIXIA camcorders with NFC capabilities).

## Rain Cover

Rain Cover ERC-E4S	Rain Cover ERC-E4M	Rain Cover ERC-E4L	
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


\* Also available separately.

# 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. With a variety of styles and sizes available, these cases are the perfect complement to the EOS System.



## Bag

Storage Capacity	1-2, 2, 3, 1	1-2, 2, 3	2, 7, 10	2, 5, 8
Dimensions	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)
Description	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 pockets hold extra batteries, storage media and others. This functional bag features a 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.
Storage Capacity	1, 1, 2	1-2, 3, 4	1-2, 3, 4	1, 1
Dimensions	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)
Description	A lightweight and versatile camera bag designed to hold your important gear. Durable water-repellant 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-repellant 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 tip 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

Compatibility*	EOS Rebel T6s, T6i	EOS Rebel T5i, T4i, T3i, T5, T3, T1i, XSi	EOS Rebel T5i, T4i, T3i, T5, T3, T1i, XSi

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

# CINEMA EOS

LEAVE NO STORY UNTOLD

GO WHEREVER THE STORY TAKES YOU



EOS C500  
EOS C500 PL **4K** **2K** **HD**

EOS C300  
EOS C300 PL **HD**

EOS C100 Mark II **HD**

EOS-1D C **4K** **HD**

## CINEMA LENSES

Canon's expanding lineup of dedicated Super 35mm Cinema Lenses is engineered to meet the most demanding requirements of high-end cinematography. Covering a wide range of popular cinema focal lengths in a series of Zooms, Compact Zooms, Prime and CINE-SERVO Lenses, it's one of the most complete lineups of lenses available to any filmmaker. Whether you are involved in film production, TV commercials, TV dramas, independent, video or film school production, these are the lenses you need for all reasons.



### Canon Cinema Zoom and Compact Zoom Lenses

Canon Cinema Zoom and Compact Zoom Lenses use advanced optical glass materials, optical coatings and powerful sophisticated design techniques to offer amazing 4K optical performance. All four lens models are available in EF- or PL-mount versions, and for added flexibility the mount on all models can be switched at a Canon service facility.

**Zoom Lens Series** – Canon Cinema Zoom Lenses offer extraordinary optical performance that exceeds 4K resolution. They combine fluorite and aspherical lens elements, the latest in advanced optical coatings and superb lens designs for outstanding edge-to-edge image quality. These lenses also feature minimal lens distortions and exceed the resolving power of the prime lenses at all zoom levels. Surprisingly low-weight, the wide-angle CN-E14.5–60mm T2.6 L S/SP and telephoto CN-E30–300mm T2.95–3.7 L S/SP cover the range of focal lengths most commonly used in filmmaking.

**Compact Zoom Lens Series** – Canon Cinema Compact Zoom Lenses offer 4K resolution in form factors that enable more flexible, less intrusive shooting. The CN-E15.5–47mm T2.8 L S/SP delivers a wide to medium range of focal lengths, while the CN-E30–105mm

T2.8 L S/SP covers wide to modest telephoto shots. When the two lenses are used as a pair, they cover a very broad zoom range. They also feature a constant T-number (2.8) throughout their zoom ranges as well as the latest advancements in lens design for outstanding image quality and minimal distortion. Both zoom lenses are ideal for Steadicam™ and hand-held shooting as well as for applications beyond filmmaking.

### Canon Cinema Prime Lenses

The flexible series of Canon Cinema Prime Lenses offers spectacular 4K-image quality and a full-frame image circle, in lightweight, compact designs. This family of lenses features high optical speed, produces amazingly sharp images and superb contrast, and maintains tightly controlled focus breathing and geometric distortion. Low T-numbers enable better low-light shooting and enhanced image expression with shallow depth-of-field and beautiful bokeh of large image circles. These EF-mount models offer consistent form factors and markings that have been optimized for motion picture production, and represent the beginning of an evolving family of cinema primes. Canon Cinema Prime Lenses are also compatible – under manual operation – with all Canon EOS DSLR models, including the

full-frame EOS-1D X and EOS 5D Mark III, as well as the EOS 7D Mark II and EOS 70D models that use APS-C sized image sensors.

### CINE-SERVO Lenses

Designed for EF- and PL-mount Cameras, Canon CINE-SERVO lenses provide outstanding versatility and operability while offering superb 4K optical performance, making them ideal for cinema and broadcast applications.

### Cinema Lens Gearing and Control

Canon Cinema Lenses meet cinematographers' highest expectations of control over focus, iris and zoom. Wide rotation angles – especially on focus controls – combine with large, highly visible scales, high mechanical accuracy of each control, and a carefully implemented tactile resistance that augments operational precision. A unique optical design that significantly minimizes focus breathing facilitates a new level of creative focus pulls. The Cinema Zoom lenses' associated three gears are precisely matched in location and diameter to facilitate convenient lens exchange during a shoot. The same is true for the Cinema Compact Zoom lens series, and for the series of Cinema Prime lenses.

## CINEMA CAMERAS

The Cinema EOS System includes the EOS C500 4K Digital Cinema Camera; the EOS-1D C 4K DSLR Cinema Camera; the EOS C300 Digital Cinema Camera; and the EOS C100 Mark II Digital Video Camera. Each camera offers superb image performance and outstanding operational features and benefits. They are innovative, digitally and physically robust, and backed by Canon's legendary high-quality craftsmanship. Indeed, these are the cinema cameras that let you go wherever the story takes you.

### EOS C500 / EOS C500 PL 4K 2K HD

#### A Digital Cinema Camera with Few Competitors

The Canon EOS C500 4K Digital Cinema Camera is the flagship of the Cinema EOS family, offering many contemporary high-resolution motion-imaging choices. Direct readout from its Canon-developed Super 35mm 4K CMOS image sensor eliminates the debayering process and allows for uncompressed 2K or HD 4:4:4 RGB, as well as 4K Half Raw, at up to 120P frame rates to be output to external recorders via 3G-SDI serial interface. To accommodate 4K production, it can also image in either the cinema-centric 4096 x 2160 format, or the television-centric 3840 x 2160 UHD TV format by delivering uncompressed 4K RAW output to external recorders.



### EOS-1D C 4K HD

#### The First Ever Canon 4K DSLR Cinema Camera

The Canon EOS-1D C 4K DSLR Cinema Camera is a singularly unique, self-contained motion-imaging system. It utilizes a Canon-developed Full-Frame 18.1 Megapixel CMOS image sensor and offers digital 4K at 24 fps motion imaging, two separate modes of 16:9 HD motion imaging, and full-frame image grabs with resolution suitable for high-end digital stills – all captured in-camera to CF cards. Motion-JPEG compression is used for 4K YUV 4:2:2 recording, and MPEG-4 AVC/H.264 codecs for the two HD modes – each at high data rates – help ensure excellent image capture performance.



### EOS C300 / EOS C300 PL HD

#### Canon's First Entry Into the Digital Cinema Market

Incorporating Canon's innovative Super 35mm imaging system, the EOS C300 Digital Cinema Camera's 50 Mbps 4:2:2 XF Codec not only holds up to the most rigorous color correction, but also conforms to worldwide broadcast standards. A pair of CF card slots affords a choice between double slot recording for enhanced security and Relay Recording for continuous roll time. Coupled with its superb low-light performance and filmic grain structure, the EOS C300 offers intuitive ergonomics that let it tuck into places that other cameras cannot.



### EOS C100 Mark II HD

#### A Digital HD Camera Designed for Maximum Creative Freedom

Optimized for one-person use and compatible with the full range of Canon EF, EF-S, and EF-mount CN-E Cinema lenses, the greatly evolved Canon EOS C100 Mark II Digital HD camera integrates the same Emmy®-Award winning Canon Super 35mm CMOS Sensor used in all of Canon's Cinema EOS cameras, but now it replaces the Canon DIGIC DV III Image Processor with the more sophisticated Canon DIGIC DV 4 Image Processor. In addition to improved RGB video processing, the camera's dual codec capability supports simultaneous AVCHD and MP4 recording, including 59.94P capture along with slow and fast motion recording. A re-designed 270° rotating 3.5-inch OLED panel, and a tiltable large EVF with large-sized eyecup, further empower the camera operator.







# 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!



# Canon Live Learning

Canon Live Learning (CLL) presents exclusive educational experiences offered around the country by 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. To learn more, visit: [usa.canon.com/canonlivelearning](http://usa.canon.com/canonlivelearning).



Events Calendar

Mobile Friendly

Home Page

Galleries

Video Knowledge Base



## Expand Your Knowledge

The CDLC covers topics of interest to advanced amateurs and professional users of Canon imaging products. Continuously updated, the site offers 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



How-To Videos and Image Galleries

and gain proficiency through tutorials created by experts. Watch How-To videos on a wide variety of imaging 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. Read in-depth articles on how to make the most of your equipment and check out our weekly blog written by Canon technical advisors and special guest contributors. 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 image-makers practice their crafts.

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,

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.



Camera Tutorial Gallery, and Sample Tutorial Video

## Learn from the Pros

Canon provides professional imagemakers with the high-level instruction and educational resources needed to stay in touch with industry demands across the country, including the Canon Hollywood Professional Technology & Support Center.

With instruction from industry pros, discover new creative and technical opportunities made possible by EOS HD-capable DSLR and Cinema EOS cameras. Our hands-on intensive workshops are designed for video and film professionals who want to master the cinematographic capabilities of EOS HD DSLR and Cinema EOS, as well as still photographers looking to expand their professional offerings to the moving image. Additionally, new offerings are always in development for our professional imagemakers.

The CLL San Francisco space provides ongoing access to photo education programs for all levels of Canon users, tailoring to their camera and needs. Our most recent addition to the Canon Live Learning Program is Canon Experience Center in the Costa Mesa,



Canon Live Learning: Workshops and Classes page

California region. Canon Live Learning Orange County provides the opportunity for image enthusiasts to participate in ongoing photo education programs of all levels in our new facility featuring dedicated CLL classrooms, a CPS Lounge, Service & Support Center and Photo Focal point for testing Canon equipment.

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 multi-day workshops take the CLL experience into the field.



## 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.

Nationwide Service & Support Network For Professionals

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.

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## Personalized Support for the Imaging Professional.

Canon Professional Services (CPS) provides exceptional support for full-time imaging professionals. CPS members receive exclusive 24/7 phone and email support, expedited and discounted equipment maintenance and repairs, Equipment Evaluation Loans, on-site support at select events and shows, discounts on select Canon Live Learning seminars and workshops, and more.

Significant discounts are applied to repairs sent in under a Gold, Platinum, or Cinema membership. Members will also enjoy substantially reduced repair downtime with a 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 streamlines the decision-making process on essential purchases (available to Gold, Platinum, and Cinema members only). Customized enterprise service and support packages are also available for larger businesses.

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.

Learn more about CPS and our Enterprise CPS Program at:  
[cps.usa.canon.com](http://cps.usa.canon.com)



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