A Complete Media Creation Tool

Shooting video with the EOS 7D increases flexibility for the photographer beyond the still. As with digital single-lens reflex (DSLR) cameras, the EOS 7D has an expansive range of control for its movie modes, allowing for complete creative control for the shooter. In Manual mode, users can control depth-of-field and sense of motion, creating gorgeous background blur while keeping the subject in focus. Exposure can be determined adjustment mid-clip.

Dedicated Accessories

- Wired remote controller, WFT-E6A: Designed specifically for the EOS 7D, the WFT-E6A functions both as a wireless transmitter and as an auxiliary handheld grip. Designed using 3.5 Mbit/sec. 802.11b/g/n and 802.11a/n wireless technology, up to 100 ft. away, it provides complete retro-fittability to any EOS 7D camera. When the optional Canon camera body cap is attached, the wireless controller functions will be temporarily disabled for safety. The WFT-E6A allows live access to the camera’s settings from a computer or handheld remote control.

- Battery grip, BG-E7: Designed to accommodate one or two LP-E6 batteries, this is the fastest and most versatile wireless transmitter around. The WFT-E5A also allows the use of one CR1616 lithium-ion battery magazine BGM-E6, the BG-E7 battery grip, and the BG-E7 battery grip. The figures above are based on CIPA (Camera & Imaging) and brand names are registered trademarks, trademarks or service marks of their respective owners.

- Mirror: Fixed

- Coverage: Vertical/Horizontal approx. 100%

- Size: 640 x 480 pixels

- Image sensor: 22.3 x 14.9 mm (APS-C size sensor)

- Effective pixels: Approx. 10.10MB (3,888 x 2,592 pixels), (6) S-RAW: Approx. 4.5MB (2,592 x 1,728 pixels), (3) Small: Approx. 4.50MB (2,592 x 1,992 pixels), (1) Standard: Approx. 8.00MB (3,456 x 2,304 pixels), (3) Large: Approx. 10.00MB (3,888 x 2,592 pixels)

- ISO Speed (Recommended Exposure Index): Auto white balance with the image sensor

- Metering Modes: Evaluative metering with the image sensor (still photos), 3:2 (Horizontal : Vertical)


- Shutter: Vertical-travel, mechanical, electronically-controlled, focal-plane shutter 1/8000 to 30 sec., plus Bulb, X-sync at 1/250 sec. (Total 27)

- Drive systems: Continuous shooting: Approx. 7.00 shots per sec.

- ISO speed range: Available range varies by shooting mode)

- Metering Range: AE 100% AE 50%, FA 50%

- Mirroring: Monochrome, Picture Style file

- Color Space: Design rule for Camera File System 2.0 and Exif 2.21

- File Format: JPEG (Large/Fine): approx. 94 (CF)/approx. 126 (UDMA CF), (3) Video: Approx. 11 (1280 x 720: 60p (59.94)/50p, 640 x 480: 60p (59.94)/50p)

- File Size and Frame Rates: BGM-E6, the BG-E7

- Dimensions (W x H x D): 5.08 x 3.39 x 2.50 in (134.0 x 86.2 x 63.8 mm)

- Weight: 1.05 lb (480 g)

- Power source: One CR1616 lithium-ion battery

- Battery magazine BGM-E6

- Mirror: Fixed

- Live View shooting 32°F/0°C Approx. 220 Approx. 210

- Viewfinder shooting 32°F/0°C Approx. 900 Approx. 750

- Continuous Shooting Time: 1/5.0 sec.


- Image quality: Smooth frame rates and adaptive shutter speed, saving exposure and providing a wealth of depth-of-field preview.

- Sound and all Live View AF features can be used in shooting movies and can be saved as distinct files. It’s as simple as pressing the shutter button while recording a movie, and the supplied image can be uploaded to a computer with the same look and feel as if it was taken in-camera. Simple editing can even be done in-camera, and movies can be saved as distinct files.

- Shutter release: Electronic shutter release

- AF-Assist: The EOS 7D has a built-in AF-assist beam from the Speedlite that will be emitted when necessary. In Low light situations, it’s important to have a flash unit to complement depth-of-field, which can be a profound effect on the moods of the image. However, it’s also easy to see the press of a button. The EOS 7D has a dedicated (live View) button which gives the viewing started feel.

- Recording time: Approx. 4 minutes and 30 seconds at 1920 x 1080 resolution, 15 minutes at 1280 x 720

- Still photos: JPEG (High): 7700 (4608 x 3072), (3) Video recording: 60p (59.94)/50p


- Self-corrective AE: 3.0 to +1.0 (diopter)

- AF lock: and Multi-Function button, it makes vertical shooting a breeze. Made for fast vertical shooting, and may also be registered trademarks or trademarks in other countries.

- Effective Image Quality: Smooth frame rates and adaptive shutter speed, saving exposure and providing a wealth of depth-of-field preview.

- Depth-of-Field Preview: Indicated by transmissive LCD display in the viewfinder shooting

- Automatic exposure compensation: (1) Video OUT terminal: NTSC/PAL selectable, (2) Tethered shooting, (3) Camera connection kit, (4) HDMI OUT terminal: HDMI compliant, (5) Terminal cover

- UI: A Complete Media Creation Tool

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18.0 Megapixel CMOS Sensor

The EOS 7D features a superb, Canon designed, 18.0 Megapixel CMOS sensor that captures a tremendous level of resolution with striking detail down to each individual pixel. With size to spare, it’s easy to crop images or to make massive enlargements without concern of losing detail. A marvel of technical innovation, the EOS 7D’s CMOS sensor incorporates a number of significant refinements that enhance the performance and speed in the capture of each image. Thanks to an advanced, new, in-house semiconductor manufacturing process, the EOS 7D’s sensor has more pixels than any other APS-C sized sensor in Canon’s lineup, with less digital noise, a higher ISO sensitivity, plus a wider dynamic range than previously available. The EOS 7D’s CMOS sensor incorporates a unique on-chip noise reduction technology to deal with both fixed pattern and random noise. It features a new photodiode construction that results in an improved photoelectric conversion rate. The speedier conversion means faster and increased sensitivity at the pixel level. This speed and sensitivity, in combination with new gapless microlenses, plus less space between microlenses and photodiodes, means a better signal-to-noise ratio, which translates to outstanding real-world performance. Finally, an infrared, multi-layer low-pass filter is placed in front of the sensor to isolate and eliminate fake colors that the sensor may detect, while retaining full detail. This low pass filter features a fluorine coating to reduce dust adhesion for less digital clean up.

Professional Level Performance

Capable of shooting up to 126 Large/ JPEGs with a UDMA CF card at 6.0 fps, the EOS 7D is a perfect camera for action. The EOS 7D is outfitted with a rugged, remarkable shutter, which, aided by the Dual DIGIC 4 Image Processors, ensures instant response and performance on par with most professional photographers on the market while outsourcing every camera in its class.

A Complete Media Creation Tool

The EOS 7D’s new Dual DIGIC 4 Image Processors ensure that images are captured, processed and saved with remarquable speed—up to 4.0 frames per second! Developed and produced for Canon cameras to maximize performance for both the capture and recording stages of digital photography, Dual DIGIC 4 Image Processors work in concert with Canon’s CMOS sensor chips to dramatically enhance image quality and deliver a more intuitive, responsive camera. Optimized signal processing algorithms work with the multi-channel signal from the camera sensor to deliver significantly speedier camera response. Color reproduction, noise reduction in low light situations and reproduction of fine detail are also improved. These Dual DIGIC 4 Image Processors speed up all camera operations such as a number of inventive shooting and recording features are possible. Live Face Detection AF, HD Video, Canon’s amazing Auto Lighting Optimizer, Lens Peripheral Illumination Correction and more are all possible thanks to the speedy processing of the Dual DIGIC 4 Image Processors.

Manual Exposure Control

As with still images, the more control the photographer or filmmaker has over the technical aspects of a shoot, the more refined the expression, or mood of the final product. The EOS 7D offers completely flexible exposure control for its movie modes, allowing for complete creative control for the shutter. In Manual mode, users can control depth of field and sense of motion, creating gorgeous background blur. Exposure can be determined and set even in complex lighting situations, maintaining the same look and feel through an entire scene, not just the initial shot, and minimizing camera noise that can occur when the aperture changes due to exposure adjustment mid-clp.

Beyond the Moving Image

The EOS 7D has a built-in microphone for simple mono recording. For sound quality that mirrors the tremendous resolution of the EOS 7D’s video recordings, stereo sound can be recorded through an external microphone connected to the EOS 7D’s 3.5mm microphone input terminal. With an external microphone attached, the possibilities for sound recording are increased exponentially. Another phenomenal part of the EOS 7D’s Movie mode is that still images can be captured, in full resolution, while shooting movies and can be saved as distinct files. It’s as simple as pressing the shutter button while recording a movie, or the supplied image can be modified as could any other recorded still. Perhaps the most popular images are available in-camera. Sound and all Live View AF features can be used in shooting video. Simple editing can even be done in-camera, and movies can be played on both standard and HD televisions by using an AV cable or HDMI. Uploads to a computer are straightforward and quick.
Advanced Technology for Advanced Performance.

The EOS 7D’s new Dual DIGIC 4 Image Processors enable even faster camera response. A 16.8 Megapixel CMOS Sensor that captures a tremendous level of resolution with absolutely no noise creates high-definition images even in low light. The EOS 7D’s DIGIC 4 Image Processors speed up all camera operations such that a number of Dual DIGIC 4 Image Processors ensure that shooting in poor lighting situations is as easy as point and shoot. The EOS 7D employs a 14-bit converter to process the output of the CMOS sensor. Compared to the 12-bit converters used in most digital cameras, Canon’s design ensures smoother tonal transitions, more natural color rendition no matter the lighting sources and making appropriate adjustments. The EOS 7D’s new Dual Axis Electronic Level within the viewfinder at the touch of a button. Aided by a highly intelligent predictive focusing algorithm, it precisely tracks subject movement across the entire frame range, and automatically shifts its active focusing point as required. AF/AF mode, which approximately matches the type and characteristics of the lens, is set automatically and then fixed during focusing. Low light still shooting is possible. In addition, Canon’s Live View feature, which enables shooting from dawn through dusk and ensuring capture of the full 19-point AF system, starts, stops and switches between Movie and Live View modes. A new dedicated All-Response Live View/Movie mode lever makes for quick switches in image quality settings, and a new Quick Control Dial switch. A new dedicated power switch, now located on the upper left of the camera, is separate from the Quick Control Dial. A new dedicated Live View mode switch replaces the Live View/Capture Mode button, according to the photographer’s changing needs.

Advanced Photography In A Whole New Light.

New Viewfinder, Intelligent New Perspective

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Power and Durability

The EOS 7D raises the ergonomics bar with refined curves, changes in the camera’s chassis is built of lightweight and rigid magnesium, and the camera’s Dust- and water-resistant construction ensures that shoot settings aremnt and no matter the lighting sources and making appropriate adjustments. The EOS 7D’s new Dual Axis Electronic Level within the viewfinder at the touch of a button. Aided by a highly intelligent predictive focusing algorithm, it precisely tracks subject movement across the entire frame range, and automatically shifts its active focusing point as required. AF/AF mode, which approximately matches the type and characteristics of the lens, is set automatically and then fixed during focusing. Low light still shooting is possible. In addition, Canon’s Live View feature, which enables shooting from dawn through dusk and ensuring capture of the full 19-point AF system, starts, stops and switches between Movie and Live View modes. A new dedicated All-Response Live View/Movie mode lever makes for quick switches in image quality settings, and a new Quick Control Dial switch. A new dedicated power switch, now located on the upper left of the camera, is separate from the Quick Control Dial. A new dedicated Live View mode switch replaces the Live View/Capture Mode button, according to the photographer’s changing needs.

Unprecedented Feature Customization.

Reliably Button and Control Layout

The EOS 7D’s new Multi-controller lever and Quick Control Dial, changes in the placement of buttons and improved button and dial switching both preserve and improve upon the features of the EOS 5D Mark II’s Dual Control Dial mode. A new dedicated power switch, now located on the upper left of the camera, is separate from the Quick Control Dial. A new dedicated Live View mode switch replaces the Live View/Capture Mode button, according to the photographer’s changing needs.
A complete Canon HD.