



EOS 850D

The EOS 850D is the perfect DSLR for photography/videography hobbyists and those just starting out.

- 4K 30p movies with no crop. Full HD 60p is perfect for slow cinematic shooting.
- 24MP APS-C CMOS sensor and DiG!C8 processor for outstanding image quality
- 3" vari-angle LCD touch screen for easy focus point selection and image review
- 7 frames per second continuous shooting with auto focus
- Optical viewfinder with 45 point all cross type autofocus system



Canon

Technical Specifications

IMAGE SENSOR	
Type	APS-C Size CMOS
Total Pixels	Approx. 25.8 megapixels
Effective Pixels	Approx. 24.1 megapixels
Aspect Ratio	3:2
Low-Pass Filter	Built-in/Fixed
Sensor Cleaning	EOS integrated cleaning system
Colour Filter Type	Primary Colour
IMAGE PROCESSOR	
Type	DIGIC 8
LENS	
Lens Mount	EF/EF-S
Focal Length	Equivalent to 1.6x the focal length of the lens
FOCUSING	
Type	Dual Pixel CMOS AF
AF System/ Points	45 cross-type AF points (45 f/5.6 cross-type AF points, 27 f/8 points [9 cross-type], centre point is f/2.8 and f/5.6 dual cross-type) (11)
AF Area Selection Mode	1-point AF Zone AF Large Zone AF Automatic selection AF
Exposure Control	Approx. 220,000 dot RGB + IR metering sensor 216-zone (18 x 12) full-aperture TTL metering
Focusing Brightness Range	EV -3 – 18
AF Lock	Locked when shutter button is pressed half way in One Shot AF mode or AF-ON button is pressed.
AF Assist Beam	Intermittent firing of built-in flash or emitted by optional dedicated Speedlite
Manual Focus	Selected on lens
EXPOSURE CONTROL	
Metering modes	216-zone (18x12) metering using approx. 220,000 pixel RGB+IR metering sensor TTL full-aperture metering. (1) Evaluative metering (linked to all AF points) (2) Partial metering (approx. 6.5% of viewfinder) (3) Spot metering (approx. 2% of viewfinder) (4) Center-weighted average metering
Metering Range	EV 1-20 (OV) / EV -2 – 20 (LV)
AE Lock	Auto: For One-Shot AF with evaluative metering, AE is locked after focusing. Manual: Can be updated by pressing the AE lock button again in P,Tv,Av and M mode.
Exposure Compensation	+/-5 EV in 1/3 or 1/2 stop increments
AEB	+/-2 EV in 1/3 or 1/2 stop increments
ISO Sensitivity (8)	ISO: 100-25600 Without flash firing: 100-25600, Flash firing: 100-1600, Bulb Exposure: 400, Max. for ISO Auto: 400-25600 (in 1-stop increments)
SHUTTER	
Type	Electronically-controlled at all speeds
Speed	30-1/4000 sec. Maximum flash sync speed: 1/200 sec. Creative Zone: 1/4000-30 sec., Bulb. Basic Zone: 1/4000-1 sec

WHITE BALANCE	
Type	Auto white balance with the imaging sensor
Settings	AWB (Ambience priority, White priority), Daylight, Shade, Cloudy, Tungsten light, White Fluorescent light, Flash, Custom, Colour Temperature Setting. White balance compensation: 1. Blue/Amber +/-9 2. Magenta/ Green +/-9 +/-3 levels in single level increments
WB Bracketing	+/-3 levels in single level increments
VIEWFINDER	
Type	Eye-level SLR type, with Pentamirror
Coverage (Vertical/Horizontal) Magnification	Approx. 95% Approx. 0.82x
Eyepoint	Approx. 19mm (at -1 from eyepiece lens end)
Dioptr Correction	-3 to +1 m-1 (dioptr)
Focusing Screen	Fixed
Mirror	Quick-return all-surface half mirror
Viewfinder Information	AF information: AF points, focus confirmation, Exposure information: Shutter speed, aperture value, ISO speed (always displayed), AE lock, exposure level/compensation, spot metering circle, exposure warning, AEB. Flash information: Flash ready, high-speed sync, FE lock, flash exposure compensation, red-eye reduction light. Image information: Card information, maximum burst (1 digit display), Highlight tone priority (D+). Composition information: Grid, Electronic level, Aspect Ratio Other information: Warning icon, Flicker Detection Possible (Depth-of-field preview button)
Depth of field preview	
LCD MONITOR	
Type	Touch screen vari angle 3" 3:2 Clear View II TFT colour, liquid-crystal monitor, approx. 1040K dots
Coverage	Approx. 100%
Viewing Angle (horizontally/vertically)	Approx. 170°
Brightness Adjustment	Adjustable to one of seven levels
Touch Screen operations	Touch control sensitivity (standard/sensitive/disable) Touch shutter (disable/enable) [One-shot AF is performed using the AF point selected by touch, and the shot is taken after focusing] Beep (enable/touch/disable)
FLASH	
Type	Retractable flash in the pentamirror housing
Built-in Flash GN (ISO 100, meters)	12
Built-in Flash Coverage	up to 17mm focal length (35mm equivalent: 28mm)
Built-in Flash recycle time	Approx. 5 seconds
Red-Eye Reduction	Yes - with red-eye reduction lamp
X-sync	1/200 sec
Flash Exposure Compensation	+/- 2EV in 1/2 or 1/3 increments
Flash Exposure Bracketing	Yes, with compatible External Flash
Flash Exposure Lock	Yes
External Flash Compatibility	EX and EL series Speedlites can be used. When using EL-100, the following features are supported: Synchronized startup/shutdown of external flash, automatic external flash firing, continuous shooting priority,

Technical Specifications

SHOOTING	
Modes	Scene Intelligent Auto (Creative Assist included), Portrait, Smooth Skin, Group Photo, Landscape, Sports, Kids, Close-Up, Food, Candlelight, Night-Portrait, Handheld Night Scene, HDR Backlight Control. Creative Filters: Grainy B/W, Soft Focus, Fish-Eye Effect, Toy-Camera Effect, Miniature Effect, HDR art standard, HDR art vivid, HDR art embossed.
Picture Styles	Auto, Standard, Portrait, Landscape, Fine Detail, Neutral, Faithful, Monochrome, User Defined (x3)
Colour Space	sRGB and Adobe RGB
Image Processing	RAW and C-RAW images possible. Use shot settings: Image quality: L, Other settings correspond to the settings at the time of shooting. Customise RAW processing: Brightness adjustment, White balance, Picture Style, Auto Lighting Optimizer, High ISO speed NR, Image Quality:L,L,M,M,S1,S1,S2, Colour space, Lens aberration correction.
Creative Filters	Available in JPEG, RAW and C-RAW: Grainy B/W, Soft Focus, Fish-eye effect, Art bold effect, Water painting effect, Toy camera effect, Miniature effect
Drive modes	Single, Continuous L, Continuous H, Self timer (10 sec, 2 sec, continuous after 10 seconds)
Continuous Shooting	Max. Approx. 7fps. OVf: High speed continuous shooting: 7 fps, Low-speed continuous shooting: 3fps. LV: High speed continuous shooting one shot: 7.5 fps and servo: 4.5 fps. Low speed continuous shooting one shot: 3 fps and servo: 3 fps.
LIVE VIEW MODE	
Type	Optical viewfinder with image sensor
Coverage	Approx. 100% (horizontally and vertically)
Frame Rate	29.97 fps
Focusing	Yes (Magnify the image 5x or 10x at any point on screen) OVf: AF Area Selection Mode: 1-point AF, Zone AF, Large Zone AF, Automatic selection AF. LV + Movie: Contrast AF: 4K UHD movie recording, AF Area: Horizontal 88%/Vertical 100%, Number of AF area available for automatic selection: Max 143 zones, Number of selectable positions for AF point: Max 3975 positions, AF method: Face+tracking, Single-point Spot AF,1-point AF, Zone AF, Eye Detection AF: Yes- Face+Tracking, Continuous AF: Yes(Live View), MF Peaking:Yes
Metering	Effective pixels: Approx 220,000 pixels. Number of metering zones: 216 zones (18x12), Face Detection, Colour Tracking, Flicker Detection, Light Source Detection, Subject Recognition
Information Display	No information/Basic Information/ Detailed Information/Histogram/Electronic Level
Display Options	Off, 3x3, 6x4, 3x3+diag
FILE TYPE	
Still Image Type	JPEG (8-bit): L (24MP/ 6000x4000 pixels), M (10.6 MP/ 3984x2656 pixels), S1 (5.9MP/ 2976x1984 pixels), S2 (3.8MP/ 2400x1600 pixels). RAW (14-bit, Canon original) + C-RAW (Canon original): 24MP/6000x4000 pixels Digital Print Order Format [DPOF] Version 1.1 compliant
RAW+JPEG simultaneous recording	Simultaneous recording of any combination of RAW/C-RAW and JPEG image-recording quality is supported.
Movie Type	MP4 (Video: MPEG-4 AVC/H.264) Sound: AAC, Video System: NTSC/PAL, Colour Matrix: Rec.ITU-R BT.709, Colour Sampling Method: YCbCr 4:2:0 (8 bit)
Movie Size	4K UHD: 3840x2160 (23.98,25.00 fps) Full HD: 1920x1080(up to 59.94,50.00 fps) HD: 1280x720(59.94,50.00 fps) HDR movies: 1920x1080(29.97,25.00 fps) Creative filter movies, Video snapshots, 4K UHD and Full HD time-lapse movies are available.
Movie Length	Max duration 29min 59sec, Max file size 4GB
File Numbering	(1) Consecutive numbering (2) Auto reset (3) Manual reset
Built in microphone	Stereo microphones, 48kHz, 16 bit, 2ch External microphone possible: 3.5mm diameter stereo mini jack.
Headphone terminal	Not provided

OTHER FEATURES	
Metadata Tag	User copyright information (can be set in camera and is appended to images as part of the Exif information)
LCD Panel / Illumination	Yes/Yes
Playback zoom	1.5x - 10x
Display Formats	No information display/ Basic information display/ Detailed shooting information display. Index Display: 4,9,36,100
Slide Show	Display time: 1-20 seconds Repeat: Enable/Disable Transition effect: Off/Slide in 1-2/Fade 1-3 Background music: Off/on
Histogram	Brightness: Yes RGB: Yes
Highlight Alert	Yes
Image Erase/Protection	Erase: Select and erase images/ Select range/All images in folder/ All images on card Protection: Select images/Select range/ All images in folder/ Unprotect all images in folder/ All images on card/ Unprotect all images on card
Menu Languages	29 Languages English, German, French, Dutch, Danish, Portuguese, Finnish, Italian, Ukraine, Norwegian, Swedish, Spanish, Greek, Russian, Polish, Czech, Hungarian, Romanian, , Vietnamese, Hindi, Turkish, Arabic, Thai, Simplified Chinese, Traditional Chinese, Korean, Malay, Indonesian and Japanese
Firmware Update	Camera firmware Lens firmware External Speedlite firmware Power zoom adapter firmware BR-E1 firmware Update possible by the user.

Technical Specifications

INTERFACE	
Computer	Hi-Speed USB (USB 2.0)
Other	Video output (PAL/ NTSC) (integrated with USB terminal), HDMI mini output (HDMI Type C compatible), External microphone (3.5mm Stereo mini jack), Directional Stereo Microphone DM-E1 can be connected (DM-E100 recommended), Remote Switch RS-60E3 type terminal supported.
DIRECT PRINT	
Canon Printers	Canon printers compliant to PictBridge (Wireless LAN)
PictBridge	Yes
STORAGE	
Type	SD, SDHC, SDXC cards (SD,UHS,UHS-I only)
SUPPORTED OPERATING SYSTEMS	
PC & Macintosh	Windows 10 / 8.1 / 8 / 7(*) * With Microsoft .NET Framework 4.5 is installed. Mac OS X 10.9, 10.10, 10.11
SOFTWARE	
Image Processing	Digital Photo Professional (RAW/C-RAW Image Processing)

POWER SOURCE	
Batteries	Rechargeable Li-ion Battery LP-E17
Battery life	Viewfinder: up to 1240 Live View: up to 360
Battery Charger	LC-E17E
Power saving	Power turns off after 10/30 or 30 sec, 1, 2, 4, 8, or 15 mins or disable.
AC power source	AC adapter: AC-E6N AC adapter kit ACK-E18 can also be used. DC coupler: DR-E18
ACCESSORIES	
Viewfinder	Eyecup Ef Rubber Frame Ef, E-series Dioptic Adjustment Lenses Eyepiece Extender EP-EX15II Magnifier MG-Ef Angle Finder C All EF and EF-S lenses
Lenses	
Flash	Canon EX and EL speedlites Speedlite transmitter ST-E3-RT/ST-E2 Off-camera shoe cord OC-E3
Battery Grip	Not supported
Remote Controller/ Switch	Remote Switch RS-60E3 Wireless/Bluetooth Remote Controller: BR-E1 Timer Remote Controller TC-80N3 (requires remote controller adapter RA-E3)
Other	Hand Strap E2 Neck Strap EW-400D (supplied)
PHYSICAL SPECIFICATIONS	
Body Materials	Chassis: Aluminum alloy and polycarbonate resin with glass fiber Exterior: Polycarbonate resin with glass fiber and special conductive fiber
Operating Environment	0 – 40 ° C, 85% or less humidity
Dimensions (WxHxD)	131.0 x 102.6 x 76.2mm
Weight (body only)	Approx. 515g (CIPA testing standard, including battery and memory card)

For more information visit
canon.com.au
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All data is based on Canon standard testing methods (according to CIPA Standards) except where indicated.
 Subject to change without notice.

