

# EOS 250D

## CAPTURE BEAUTIFUL MEMORIES. WITH A CLICK.

A superb choice for anyone stepping up from their smartphone or compact camera, this highly portable DSLR is easy and enjoyable to use and lets budding photographers take a more creative approach with photos and video of life's big moments.



- 24.1-megapixel APS-C sensor and DIGIC 8 processor
- Optical viewfinder
- 4K movies
- Dual Pixel CMOS AF
- Vari-angle screen
- Guided user interface helps you learn
- Bluetooth®\*\*\* and Wi-Fi
- Creative Assist

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**24.1** MEGA  
PIXELS  
CMOS

**Dual Pixel** AF  
CMOS

Optical  
Viewfinder

**DiGiC**  
8



Creative Assist

3.0" LCD  
Vari-angle

### PRODUCT RANGE



EOS 800D



EOS 250D



EOS 4000D

EOS 800D  
**EOS 250D**  
EOS 4000D  
EOS 2000D

**Canon**

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# TECHNICAL SPECIFICATIONS

# EOS 250D

## IMAGE SENSOR

Type	22.3 mm x 14.9 mm CMOS
Effective Pixels	Approx. 24.10 megapixels
Total Pixels	Approx. 25.80 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
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## LENS

Lens Mount	EF mount
Focal Length	Approx. 1.6x the focal length of the lens
Image Stabilisation	Optical Image Stabilizer on compatible lenses

## FOCUSING

Type	Via optical viewfinder: TTL secondary image-forming phase-difference detection system with AF-dedicated sensor. Via LiveView on LCD screen: Dual Pixel CMOS AF System. Phase detection pixels built onto imaging sensor <sup>[20]</sup>
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## AF System/ Points

Via optical viewfinder: 9-point Center AF point is AF cross-type supporting f/5.6. Center AF point is vertical line-sensitive supporting f/2.8. Other AF points are vertical line-sensitive or horizontal line-sensitive AF supporting f/5.6. <sup>[11]</sup> Via LiveView on LCD screen: Maximum 143 AF points via camera automatic selection <sup>[15]</sup> Freely position 1 AF point/1 AF Zone max 3,975 points via manual selection <sup>[20]</sup>

## AF working range

Via optical viewfinder: EV -0.5 – 18 (center AF point) <sup>[30]</sup> EV 0.5 – 18 (other AF points) <sup>[30]</sup> Via LiveView on LCD screen: EV -4 – 18 (f/1.2 at 23 °C & ISO 100) with One-Shot AF

## AF Modes

AI Focus, One Shot, AI Servo (AI Servo II algorithm)

## AF Point Selection

Via optical viewfinder:  
Automatic selection: 9 point AF  
Manual selection: Single point AF

## Selected AF point display

Indicated by a transmissive LCD in viewfinder and Quick Control screen

## Predictive AF (7)

## AF Lock

Locked when shutter button is pressed half way in One-Shot AF mode or AF-ON Button is pressed.

## AF Assist Beam

Emitted by optional dedicated Speedlite

## Manual Focus

Selected on lens

## Focus Bracketing

## AF Micro adjustment

## EXPOSURE CONTROL

## Metering modes

Via optical viewfinder:  
63-zone dual-layer metering sensor with Evaluative, partial, spot (centre only) and centre-weighted average available

Via LiveView on LCD screen:

- (1) Evaluative metering (384 zones)
- (2) Partial metering (approx. 5.5 % of LCD screen)
- (3) Spot metering (approx. 3.7 % of LCD screen)
- (4) Center-weighted average metering

## Metering Range

Via optical viewfinder: EV 1 – 20 (at 23 °C with 50 mm f/1.4 lens ISO 100) Via LiveView on LCD screen: EV -2 – 20 (at 23 °C, ISO 100, evaluative metering)

## AE Lock

Auto: In One-shot AF mode with evaluative metering exposure is locked when focus is achieved.  
Manual: By AE Lock Button in creative zone modes.

## Exposure Compensation

+/-5 EV in 1/3 or 1/2 stop increments (can be combined with AEB).

## AEB

3 shots +/-2 EV 1/3 or 1/2 stop increments

## ISO Sensitivity (8)

Auto (100-25600), 100-25600 (in whole stop increments) ISO can be expanded to H: 51200  
During Movie shooting: Auto (100-12800), 100-12800 (in 1/3-stop or whole stop increments) ISO can be expanded to H: 25600. 4K Movie Max. 6400

## SHUTTER

Type	Electronically-controlled focal-plane shutter
Speed	30-1/4000 sec (1/2 or 1/3 stop increments), Bulb (Total shutter speed range. Available range varies by shooting mode)

## WHITE BALANCE

Type	Automatic 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 bias +/-9 levels; 2. Magenta/ Green bias +/-9 levels Yes, 1 setting can be registered +/-3 levels in single level increments 3 bracketed images per shutter release. Selectable Blue/Amber bias or Magenta/Green bias.

## Custom White Balance

## WB Bracketing

## VIEWFINDER

Type	Pentamirror
Coverage (Vertical/Horizontal)	Approx. 95 %
Magnification	Approx. 0.87x <sup>[4]</sup>
Eye point	Approx. 19 mm (from eyepiece lens centre)
Dioptr Correction	-3 to +1 m-1 (dioptr)
Focusing Screen	Fixed (Translucent LCD screen for information overlay)
Mirror	Quick-return half mirror (Transmission: reflection ratio of 40:60, no mirror cut-off with EF 600 mm f/4 IS USM or shorter)
Viewfinder Information	AF information: AF points, focus confirmation, AF area selection mode. 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. Image information: Card information, maximum burst (1 digit display), Highlight tone priority (D+). Composition information: Grid, Aspect Ratio. Other information: Warning icon.

## Depth of field preview

Yes, with Depth of Field preview assigned to a button via Custom Function.

## Eyepiece shutter

On strap

## LCD MONITOR

Type	Vari-angle touchscreen 7.7 cm (3.0") 3:2 Clear View II TFT, approx. 1040 K sRGB dots
Coverage	Approx. 100%
Viewing Angle (horizontally/vertically)	Approx. 170°
Coating	
Brightness Adjustment	Adjustable to one of seven levels
Display Options	(1) Quick Control Screen (2) Camera settings

## FLASH

Built-in Flash GN (ISO 100, meters)

Built-in Flash Coverage

9.8

up to 18 mm focal length (35 mm equivalent: approx. 29mm)

Approx. 3 seconds

Auto, Manual flash

Built-in Flash recycle time

Modes

Red-Eye Reduction

X-sync

1/200 sec

Flash Exposure Compensation

+/- 2 EV in 1/2 or 1/3 increments

Flash Exposure Bracketing

Yes, with compatible External Flash

Flash Exposure Lock

Yes

Second Curtain Synchronisation

Yes

HotShoe/ PC terminal

Yes/ No

External Flash Compatibility

E-TTL II with EX series Speedlites, wireless optical multi-flash support

External Flash Control

via camera menu screen

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# TECHNICAL SPECIFICATIONS

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## SHOOTING

### Modes

Scene Intelligent Auto (Stills and Movie), Creative Auto, SCN (Portrait, Landscape, Close-up, Sports, Group Photo, Night Portrait, Smooth Skin, Group Photo, Handheld Night Scene, HDR Backlight Control, Food, Kids, Candlelight), Creative filters, Program AE, Shutter priority AE, Aperture priority AE, Manual (Stills and Movie)

### Picture Styles

Auto, Standard, Portrait, Landscape, Fine Detail, Neutral, Faithful, Monochrome, User Defined (x3)

### Colour Space

sRGB and Adobe RGB

### Image Processing

Highlight Tone Priority (3 settings)  
Auto Lighting Optimizer (4 settings)  
Long exposure noise reduction  
High ISO speed noise reduction (4 settings)  
Multi Shot Noise Reduction  
Auto Correction of Lens Peripheral illumination, Chromatic aberration correction, Distortion correction, Diffraction correction  
Digital Lens Optimizer  
Creative filters (Grainy B/W, Soft focus, Fish-eye effect, Water painting effect, Toy camera effect, Miniature effect, HDR art standard, HDR art vivid, HDR art bold, HDR art embossed)  
Multi-exposure

### Drive modes

Single, Continuous L, Continuous H, Self timer (2s+remote, 10s+remote)

### Continuous Shooting

Max. Approx. 5 fps.

### Intervalometer

## LIVE VIEW MODE

### Type

Approx. 100% (horizontally and vertically)

### Coverage

### Frame Rate

29.97 fps

### Focusing

Manual Focus (Magnify the image 5x or 10x at any point on screen)  
Autofocus: Dual Pixel CMOS AF (Face detection and Tracking AF, FlexiZone-Multi, FlexiZone-Single)  
One-shot AF and Servo AF selectable for Stills and Movie

### Metering

Real-time evaluative metering with image sensor. Evaluative metering, partial metering, spot metering, center-weighted average metering.

### Display Options

Grid overlay (x3), Histogram,

## FILE TYPE

### Still Image Type

JPEG: Fine, Normal (Exif 2.31 [Exif Print] compliant) / Design rule for Camera File system (2.0)

RAW: 14bit, Canon original RAW 3rd edition  
Digital Print Order Format [DPOF] Version 1.1 compliant

### RAW+JPEG simultaneous recording

RAW, RAW + JPEG (any combination) possible.

### Image Size

JPEG 3:2: (L) 6000 x 4000, (M) 3984 x 2656, (S1) 2976 x 1984, (S2) 2400 x 1600,  
JPEG 4:3: (L) 5328 x 4000, (M) 3552 x 2664, (S1) 2656 x 1992, (S2) 2112 x 1600,  
JPEG 16:9: (L) 6000 x 3368, (M) 3984 x 2240, (S1) 2976 x 1680, (S2) 2400 x 1344,  
JPEG 1:1: (L) 4000 x 4000, (M) 2656 x 2656, (S1) 1984 x 1984, (S2) 1600 x 1600,  
RAW: (RAW) 6000 x 4000

## Movie Type

MP4 (Video: H.264 inter frame, Sound: Linear PCM / AAC, recording level can be manually adjusted by user) MOV (Video: H.264 All-I Full HD, no sound) - time-lapse movie only

## Movie Size

3240 x 2160 (23.98, 25 fps) inter-frame  
1920 x 1080 (59.94, 50 fps) inter-frame  
1920 x 1080 (29.97, 25, 23.98 fps) inter-frame  
1920 x 1080 (29.97, 25) life inter-frame  
1280 x 720 (59.94, 50 fps) inter-frame

## Movie Length

Max duration 29min 59sec

## Sound Files

## Folders

New folders can be manually created and selected

## File Numbering

(1) Consecutive numbering  
(2) Auto reset  
(3) Manual reset

## OTHER FEATURES

### Custom Functions

11 Custom Functions

### Metadata Tag

User copyright information (can be set in camera)  
Image rating (0-5 stars)

## LCD Panel / Illumination

## Water/ Dust resistance

## Sound Memo

Yes

## Intelligent Orientation Sensor

## Playback zoom

1.5x - 10x

## Display Formats

(1) Single image with information (2 levels)  
(2) Single image  
(3) 4-image index  
(4) 9-image index  
(5) 36-image index  
(6) 100-image index  
(7) Jump Display

## Slide Show

Choose images with Image Search  
Playback time: 1/2/3/5/10/20 seconds  
Repeat: On/Off  
Background music: On/Off  
Transition effect: Off, Slide in 1, Slide in 2, Fade 1, Fade 2, Fade 3  
Brightness: Yes  
RGB: Yes

## Histogram

## Highlight Alert

Yes

## Image Erase/Protection

Erase: Select image, select range, all images in folder, all images on a card, all found images (during image search)  
Protection: Single image, select range, all images in folder, all images on a card, all found images (during image search)

## Data Verification

## Menu Categories

Menu interface adjustable by the user between standard and guided

(1) Shooting menu  
(2) Playback menu  
(3) Setup menu  
(4) Display Options menu  
(5) My Menu

## Menu Languages

29 Languages  
English, German, French, Dutch, Danish, Portuguese, Finnish, Italian, Norwegian, Swedish, Spanish, Greek, Russian, Polish, Czech, Hungarian, Romanian, Ukrainian, Turkish, Arabic, Thai, Simplified Chinese, Traditional Chinese, Korean, Japanese, Vietnamese, Hindi, Malay, Indonesian

## Firmware Update

Update possible by the user.

## INTERFACE

### Computer

Hi-Speed USB

### Wi-Fi

Wi-Fi (2.4GHz) Channels: IEEE802.11b, IEEE802.11g, IEEE802.11n

### Wi-Fi Security

Camera Access Point: WPA2-PSK with AES encryption or open  
Infrastructure: Shared key, with WEP encryption, WPA-PSK/WPA2-PSK with TKIP/AES encryption or open

### Bluetooth

BLE (Bluetooth Low Energy Technology)

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# TECHNICAL SPECIFICATIONS

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<b>NFC</b>	
<b>Other</b>	Video output (PAL/ NTSC) (integrated with USB terminal), HDMI mini output (HDMI-CEC compatible), External microphone (3.5 mm Stereo mini jack)
<b>DIRECT PRINT</b>	
<b>Canon Printers</b>	Canon Compact Photo Printers and PIXMA Printers supporting PictBridge
<b>PictBridge</b>	Yes
<b>STORAGE</b>	
<b>Type</b>	SD, SDHC, SDXC (UHS Speed Class 1 compatible)
<b>SUPPORTED OPERATING SYSTEM</b>	
<b>PC &amp; Macintosh</b>	See individual software
<b>SOFTWARE</b>	
<b>Browsing &amp; Printing</b>	Digital Photo Professional 4 (RAW Image Processing)
<b>Image Processing</b>	EOS Utility EOS Lens Registration Tool EOS Web Service Registration Tool EOS Sample Music Picture Style Editor
<b>Other</b>	Camera Connect app available on iOS and Android devices
<b>POWER SOURCE</b>	
<b>Batteries</b>	1 x Rechargeable Li-ion Battery LP-E17
<b>Battery life</b>	Viewfinder: Approx. 1070 (at 23°C, AE 50%, FE 50%) (5) Viewfinder: Approx. 1020 (at 0°C, AE 50%, FE 50%) LiveView: Approx. 320 (at 23°C, AE 50%, FE 50%) LiveView: Approx. 300 (at 0°C, AE 50%, FE 50%)
<b>Battery Indicator</b>	4 levels
<b>Power saving</b>	Power turns off after 10/30 (10 sec viewfinder/30 sec live view, functions, image playback etc) sec, 30 sec, 1, 2, 4, 8, or 15 mins.

## Power Supply & Battery Chargers

Battery charger LC-E17E

## PHYSICAL SPECIFICATIONS

### Body Materials

Chassis: Aluminium alloy and polycarbonate resin with glass fibre  
Exterior: Polycarbonate resin with glass fibre and special conductive fibre  
0 – 40 °C, 85% or less humidity  
122.4 x 92.6 x 69.8mm  
Black / Silver: Approx. 449g  
White: Approx. 451g  
(CIPA testing standard, including battery and memory card)

### Operating Environment

### Dimensions (WxHxD)

### Weight (body only)

## ACCESSORIES

### Viewfinder

Eyecup Ef  
Rubber Frame Ef  
E-series Dioptic Adjustment Lenses  
Eyepiece Extender EP-EX15II  
Magnifier MG-Ef  
Angle Finder C

### Case

### Wireless File Transmitter

### Lenses

### Flash

All EF and EF-S lenses  
Canon Speedlites (90EX, 220EX, 270EX, 270EX II, 320EX, 420EX, 430EX, 430EX II, 430EX III-RT, 550EX, 580EX, 580EX II, 600EX, 600EX-RT, Macro-Ring-Lite, MR-14EX, Macro Twin Lite MT-24EX, Speedlite Transmitter ST-E2, Speedlite Transmitter ST-E3-RT) <sup>[30]</sup>

### Battery Grip

### Remote Controller/ Switch

Remote Switch RS-60E3, Remote Controller BR-E1, Timer Remote Controller TC-80N3 via Remote Controller Adapter RA-E3

### Other

Hand Strap E2, GPS Receiver GP-E2, Directional Stereo Microphone DM-E1, Protecting Cloth PC-E1, PC-E2, HDMI Cable HTC-100, Interface Cable IFC400PCU, IFC-200U/500U

**All data is based on Canon standard testing methods except where indicated. Subject to change without notice.**

<sup>[4]</sup> with 50mm lens at infinity, -1m-1 dpt

<sup>[11]</sup> Peripheral Cross type AF points will not function as a cross type AF points with the following lenses: EF 35-80mm f4-5.6 (II/III/USM), EF35-105mm f4.5-5.6 (USM), EF 80-200mm f4.5-5.6 (II)

<sup>[15]</sup> Maximum number of AF frame is dependent on selected image aspect ratio

<sup>[20]</sup> Dual Pixel CMOS AF - AF is possible over an area of approx. 80% Vertical x 80% Horizontal of the frame or 100% vertical x 88% horizontal, depending on lens used

<sup>[30]</sup> With One-Shot AF, at 23°C/73°F, ISO 100, Based on Canon's testing standards and environment)



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A superb choice for anyone stepping up from their smartphone or compact camera, this highly portable DSLR is easy and enjoyable to use and lets budding photographers take a more creative approach with photos and video of life's big moments.

Sales Start Date: 25 April 2019



#### OPTIONAL ACCESSORIES:

Product Name	Mercury Code	GTIN Code
Battery Charger LC-E17E	9969B001AA	4549292021011
Battery Pack LP-E17	9967B002AB	4549292020984
Interface Cable IFC-600PCU	1015C001AA	4549292054378
HDMI Cable HTC-100	2384B001AA	4960999530383
GPS receiver GP-E2	6363B001AA	4960999848358
Directional Stereo Microphone DM-E1	1429C001AA	4549292065732
Remote Switch RS-60 E3	2469A002AA	4960999581354
Wireless Remote-Control BR-E1	2140C001AA	4549292087864
Timer Remote Controller TC-80 N3* (*requires RA-E3)	2477A004AA	4960999581569
Remote Switch Adapter RA-E3	1157C001AA	4549292058833
Eyecup/Rubber Frame Ef	8171A001AA	4960999174280
Eyepiece Extender EP-EX15II	3069B001AA	4960999613130
Eyepiece magnifier MG-Ef	0048C001AA	4549292025019
Angle Finder C.	2882A001AA	4960999540092
Off-Camera Shoe Cord OC-E3	1950B001AA	4960999417271
Speedlite Transmitter ST-E2	2478A004AA	4960999581538
Speedlite Transmitter ST-E3-RT	5743B003AB	4960999810232

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