

EOS 80D**IMAGE SENSOR**

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| Type | 22.3mm x 14.9 mm CMOS |
| Effective Pixels | Approx. 24.20 megapixels |
| Total Pixels | Approx. 25.80 megapixels |
| Aspect Ratio | 3:2 |
| Low-Pass Filter | Built-in/Fixed with fluorine coating |
| Sensor Cleaning | EOS integrated cleaning system |
| Colour Filter Type | Primary Colour |

IMAGE PROCESSOR

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| Type | DIGIC 6 |
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LENS

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| Lens Mount | EF/EF-S |
| Focal Length | Equivalent to 1.6x the focal length of the lens |

FOCUSING

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| Type | TTL-CT-SIR with a CMOS sensor |
| 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 working range | EV -3 - 18 (at 23°C & ISO100) |
| AF Modes | AI Focus One Shot AI Servo |
| AF Point Selection | Automatic selection: 45 point AF Manual selection: Single point AF Manual selection: Zone AF Manual selection: Large Zone AF AF points can be selected separately for vertical and horizontal shooting |
| Selected AF point display | Indicated by a transmissive LCD in viewfinder and Quick Control screen |
| Predictive AF (7) | Yes, up to 8m |
| 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 |
| AF Microadjustment | C.Fn II-16 +/- 20 steps (wide and tele setting for Zooms) Adjust all lenses by same amount Adjust up to 40 lenses individually Adjustments remembered for lens by serial number |

EXPOSURE CONTROL

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| Metering modes | 7560-pixel RGB+IR metering sensor Metering with the area divided into 63 segments (9×7) (1) Evaluative metering (linked to all AF points) (2) Partial metering (approx. 6.0% of viewfinder) (3) Spot metering (approx. 3.8% of viewfinder) (4) Center-weighted average metering |
| Metering Range | EV 1-20 (at 23°C with 50mm f/1.4 lens ISO100) |
| 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). |

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| AEB ISO Sensitivity (8) | 2, 3, 5 or 7 Shots +/-3 EV 1/3 or 1/2 stop increments Auto (100-16000), 100-16000 (in 1/3-stop or whole stop increments) ISO can be expanded to H: 25600 During Movie shooting: Auto (100-12800), 100-12800 (in 1/3-stop or whole stop increments) ISO can be expanded to H: 25,600 |
| SHUTTER | |
| Type Speed | Electronically-controlled focal-plane shutter 30-1/8000 sec (1/2 or 1/3 stop increments), Bulb (Total shutter speed range. Available range varies by shooting mode) |
| WHITE BALANCE | |
| Type Settings | Auto white balance with the imaging sensor 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. |
| Custom White Balance WB Bracketing | 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. |
| VIEWFINDER | |
| Type Coverage (Vertical/Horizontal) Magnification Eyepoint Dioptre Correction Focusing Screen Mirror | Pentaprism Approx. 100% Approx. 0.95x (4) Approx. 22mm (from eyepiece lens centre) -3 to +1 m ⁻¹ (dioptrre) Fixed (Transmissive LCD screen) Quick-return half mirror (Transmission: reflection ratio of 40:60, no mirror cut-off with EF 600mm 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, red-eye reduction light. Image information: Card information, maximum burst (2 Yes, with Depth of Field preview button. |
| Depth of field preview Eyepiece shutter | On strap |
| LCD MONITOR | |
| Type Coverage Viewing Angle Coating Brightness Adjustment Display Options | Touch screen Vari angle 7.7cm (3.0") 3:2 Clear View II TFT, approx. 1040K dots Approx. 100% Approx. 170° Anti-reflection, Solid Structure and Anti smudge Adjustable to one of seven levels (1) Quick Control Screen (2) Camera settings (3) Electronic Level |

| FLASH | |
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| Built-in Flash GN (ISO 100, meters) | 12 |
| Built-in Flash Coverage | up to 17mm focal length (35mm equivalent: 27mm) |
| Built-in Flash recycle time | Approx. 3 seconds |
| Modes | Auto, Manual flash, Integrated Speedlite Transmitter |
| Red-Eye Reduction | Yes - with red-eye reduction lamp |
| X-sync | 1/250sec |
| Flash Exposure Compensation | +/- 3EV in 1/2 or 1/3 increments |
| Flash Exposure Bracketing | Yes, with compatible External Flash |
| Flash Exposure Lock | Yes |
| Second Curtain Synchronisation | Yes |
| Hot Shoe/ PC terminal | Yes/ No |
| External Flash Compatibility | E-TTL II with EX series Speedlites, wireless optical multi-flash |
| External Flash Control | via camera menu screen |
| SHOOTING | |
| Modes | Scene Intelligent Auto (Stills and Movie), No Flash, Creative Auto, SCN (Portrait, Landscape, Close-up, Sports, Night Portrait, Handheld Night Scene, HDR Backlight Control, Food, Kids, Candlelight), Creative filters, Program AE, Shutter priority AE, Aperture priority AE, Manual (Stills and Movie), Bulb, Custom |
| 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 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 and Chromatic aberration correction Creative filters (Grainy B/W, Soft focus, Fish-eye effect, Art bold effect, Water painting effect, Toy camera effect, Miniature effect) Multi-exposure RAW image processing - during image Playback only Resize to M or S1, S2, S3 |
| Drive modes | Single, Continuous L, Continuous H, Self timer (2s+remote, 10s +remote), Silent single shooting, Silent continuous shooting |
| Continuous Shooting | Max. Approx. 7fps. (speed maintained for up to 110 images (JPEG)(1)(10)(with UHS-I card), 25 images (RAW)(with UHS-I card)) (2) (10) |
| Intervalometer | Built-in, number of shots selectable from 1-99 or unlimited. Bulb timer possible |
| LIVE VIEW MODE | |
| Type | Electronic viewfinder with image sensor |
| Coverage | Approx. 100% (horizontally and vertically) |
| Frame Rate | 30 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), Tracking sensitivity (-3 to +3) and Movie Servo AF Speed (-7 to +2) |
| Metering | Real-time evaluative metering with image sensor. Evaluative metering, partial metering, spot metering, center-weighted average metering. |
| Display Options | Grid overlay (x3), Histogram, Electronic level, |

| FILE TYPE | |
|---------------------------------|---|
| Still Image Type | JPEG: Fine, Normal (Exif 2.30 [Exif Print] compliant) / Design rule for Camera File system (2.0), RAW: RAW, M-RAW, S-RAW (14bit, Canon original RAW 2nd edition), Digital Print Order Format [DPOF] Version 1.1 compliant |
| RAW+JPEG simultaneous recording | Yes, any combination of RAW + JPEG, M-RAW + JPEG, S-RAW + JPEG possible. |
| Image Size | JPEG 3:2: (L) 6000 x 4000, (M) 3984 x 2656, (S1) 2976 x 1984, (S2) 1920x1280, (S3) 720x480 JPEG 4:3: (L) 5328x4000, (M) 3552x2664, (S1) 2656x1992, (S2) 1696x1280, (S3) 640x480 JPEG 16:9: (L) 6000x3368, (M) 3984x2240, (S1) 2976x1680, (S2) 1920x1080, (S3) 720x408 JPEG 1:1: (L) 4000x4000, (M) 2656x2656, (S1) 1984x1984, (S2) 1280x1280, (S3) 480x480 RAW: (RAW) 6000x4000, (M-RAW) 4500x3000, (S-RAW) 3000x2000 |
| Movie Type | MOV / MP4 (Video: H.264 Intra frame / inter frame, Sound: Linear PCM / AAC, recording level can be manually adjusted by user) |
| Movie Size | 1920 x 1080 (59.94, 50 fps) inter-frame 1920 x 1080 (29.97, 25, 23.98 fps) intra or inter frame 1920 x 1080 (29.97, 25) lite inter-frame 1280 x 720 (59.94, 50 fps) inter-frame 1280 x 720 (29.97, 25) lite inter-frame |
| Movie Length | Max duration 29min 59sec, Max file size 4GB (If file size exceeds 4GB a new file will be created automatically) |
| Folders | New folders can be manually created and selected |
| File Numbering | (1) Consecutive numbering (2) Auto reset (3) Manual reset |
| OTHER FEATURES | |
| Custom Functions | 26 Custom Functions |
| Metadata Tag | User copyright information (can be set in camera) Image rating (0-5 stars) |
| LCD Panel / Illumination | Yes / Yes |
| Water/ Dust resistance | Yes |
| Sound Memo | No |
| Intelligent Orientation Sensor | Yes |
| 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 (8) Movie edit |
| Slide Show | Image selection: All images, by Date, Folder, Movies, Stills 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 |
| Histogram | Brightness: Yes RGB: Yes |

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| Highlight Alert | Yes |
| Image Erase/Protection | Erase: Single image, All images in folder, Checkmarked images, unprotected images Protection: Erase protection of one image at a time |
| Menu Categories | (1) Shooting menu (x6) (2) Playback menu (x3) (3) Setup menu (x4) (4) Custom Functions menu (5) My Menu |
| Menu Languages | 25 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 and Japanese |
| Firmware Update | Update possible by the user. |
| INTERFACE | |
| Computer | Hi-Speed USB |
| Other | Video output (PAL/ NTSC) (integrated with USB terminal), HDMI mini output (HDMI-CEC compatible), External microphone (3.5mm Stereo mini jack), Headphone socket (Stereo mini jack) |
| DIRECT PRINT | |
| Canon Printers | Canon Compact Photo Printers and PIXMA Printers supporting PictBridge |
| PictBridge | Yes |
| STORAGE | |
| | SD, SDHC or SDXC (UHS-I) card |
| SUPPORTED OPERATING SYSTEM | |
| | 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 4.4.0 (RAW Image Processing) |
| Other | EOS Utility EOS Lens Registration Tool EOS Web Service Registration Tool EOS Sample Music Picture Style Editor |
| POWER SOURCE | |
| Batteries | Rechargeable Li-ion Battery LP-E6N (supplied), built in for date & settings |
| Battery life | Approx. 960 (at 23°C, AE 50%, FE 50%) (5) Approx. 860 (at 0°C, AE 50%, FE 50%) |
| Battery Indicator | 6 levels + percentage |
| Power saving | Power turns off after 1, 2, 4, 8, 15 or 30mins. |
| Power Supply & Battery Chargers | AC Adapter AC-E6(N), DC coupler: DR-E6, Battery charger LC-E6, Car Battery charger CBC-E6 |
| PHYSICAL SPECIFICATIONS | |
| Body Materials | Polycarbonate resin with glass fiber |
| Operating Environment | 0 – 40 °C, 85% or less humidity |
| Dimensions (WxHxD) | 139.0 x 105.2 x 78.5mm |
| Weight (body only) | Approx. 730g (CIPA testing standard, including battery and memory card) |

ACCESSORIES

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| Viewfinder | <p>Eyecup Eb, E-series Dioptic Adjustment Lens, Eyepiece Extender EP-EX15II, Angle Finder C</p> |
| Case | <p>Leather case EH21-L</p> |
| Wireless File Transmitter | <p>Built in Wi-Fi transmission</p> <p>Connectivity to Smart devices is possible with Android version 4.0-4.4/5.0-5.1 or iOS 7.1/8-8.3.</p> <p>NFC connectivity is possible only with compatible Android devices.</p> <p>Remote Wi-Fi zoom operation of EF-S 18-135mm f/3.5-5.6 IS USM via the optional Power Zoom Adapter PZ-E1 is only possible on EOS 80D using a compatible smart device (as above) or while using supplied EOS Utility software</p> |
| Lenses | <p>All EF and EF-S lenses</p> |
| Flash | <p>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)</p> |
| Battery Grip | <p>BG-E14</p> |
| Remote Controller/ Switch | <p>Remote Switch RS-60E3, Remote Controller RC-6</p> |
| Other | <p>Hand Strap E2, GP-E2</p> |

All data is based on Canon standard testing methods (according to CIPA Standards) except where indicated. Subject to change without notice.

[1] Large/Fine(Quality 8) resolution

[2] Based on Canon's testing conditions, JPEG, ISO 100, Standard Picture Style. Varies depending on the subject, memory card brand and capacity, image recording quality, ISO speed, drive mode, Picture Style, Custom functions etc.

[4] with 50mm lens at infinity, -1m^{-1} dpt

[5] Based on the CIPA Standard and using the batteries and memory card format supplied with the camera, except where indicated

[7] with EF300mm f/2.8L IS USM at 50kph

[8] Recommended Exposure Index

[10] Maximum fps and buffer capacity may be reduced depending on the cameras settings and light level

[11] Number of cross-type points depends on the lens used