

# Specifications (EOS 80D)

Type	Type	Digital, single-lens reflex, AF/AE camera with built-in flash
	Recording media	SD/SDHC*/SDXC* memory cards * UHS-I cards supported
	Image sensor size	Approx. 22.3 x 14.9 mm
	Compatible lenses	Canon EF lenses (including EF-S lenses) * Excluding EF-M lenses (35mm-equivalent angle of view is that of a lens with approx. 1.6x the focal length indicated.)
	Lens mount	Canon EF mount
Image Sensor	Type	CMOS sensor
	Effective pixels	Approx. 24.2 megapixels * Rounded off to the nearest 10,000th.
	Aspect ratio	3:2
	Dust delete feature	Auto, Manual, Dust Delete Data appending
Recording System	Recording format	Design rule for Camera File System (DCF) 2.0
	Image type	JPEG, RAW (14-bit Canon original), RAW+JPEG simultaneous recording possible
	Pixels recorded	L (Large) : 24.0 megapixels (6000 x 4000) M (Medium) : Approx. 10.6 megapixels (3984 x 2656) S1 (Small 1) : Approx. 5.9 megapixels (2976 x 1984) S2 (Small 2) : Approx. 2.5 megapixels (1920 x 1280) S3 (Small 3) : Approx. 350,000 pixels (720 x 480) RAW : 24.0 megapixels (6000 x 4000) M-RAW : 13.5 megapixels (4500 x 3000) S-RAW : 6.0 megapixels (3000 x 2000)
	Aspect ratio	3:2, 4:3, 16:9, 1:1
	Create/select a folder	Possible
	File numbering	Continuous, Auto reset, Manual reset
Image Processing During Shooting	Picture Style	Auto, Standard, Portrait, Landscape, Fine Detail, Neutral, Faithful, Monochrome, User Defined 1 - 3
	White balance	Auto (Ambience priority), Auto (White priority), Preset (Daylight, Shade, Cloudy, Tungsten light, White fluorescent light, Flash), Custom, Color temperature setting (approx.

		2500-10000 K), White balance correction, and White balance bracketing provided * Flash color temperature information transmission enabled
	Noise reduction	Applicable to long exposures and high ISO speed shots
	Automatic image brightness correction	Auto Lighting Optimizer provided
	Highlight tone priority	Provided
	Lens aberration correction	Peripheral illumination correction, Chromatic aberration correction, Distortion correction
Viewfinder	Type	Eye-level pentaprism
	Coverage (by aspect ratio)	3:2 (vertical: approx. 100%, horizontal: approx. 100%), 4:3 (vertical: approx. 100%, horizontal: approx. 97%), 16:9 (vertical: approx. 97%, horizontal: approx. 100%), 1:1 (vertical: approx. 100%, horizontal: approx. 96%) *With eyepoint at approx. 22mm.
	Magnification	Approx. 0.95x (-1 m <sup>-1</sup> with 50mm lens at infinity)
	Eye point	Approx. 22mm (from eyepiece lens center at -1 m <sup>-1</sup> )
	Diopric adjustment range	Approx. -3.0 - +1.0 m <sup>-1</sup> (dpt)
	Focusing screen	Fixed
	Grid display	Provided
	Electronic level	Provided
	Mirror	Quick-return type
	Depth-of-field preview	Provided
Autofocus (for viewfinder shooting)	Type	TTL secondary image-registration, phase-difference detection with the dedicated AF sensor
	AF points	45 (Cross-type AF point: Max. 45 points) * Number of available AF points, Dual cross-type AF points, and cross-type AF points vary depending on the lens used and aspect ratio settings. * Dual cross-type focusing at f/2.8 with center AF point. (AF group: When Group A lenses are used)
	Focusing brightness range	EV -3 - 18 (with the center AF point supporting f/2.8, One-Shot AF, at room temperature, ISO 100)
	Focus operation	One-Shot AF, AI Servo AF, AI Focus AF, Manual focusing (MF)

	AF area selection mode	Single-point AF (Manual selection), Zone AF (Manual selection of zone), Large Zone AF (manual selection of zone), 45-point automatic selection AF
	AF point automatic selection conditions	AF points can be selected automatically using information on colors equivalent to skin tones.
	AI Servo AF characteristics	Tracking sensitivity, Acceleration/deceleration tracking, AF point auto switching
	AF fine adjustment	AF Microadjustment (All lenses by same amount or Adjust by lens)
	AF-assist beam	Small series of flashes fired by built-in flash
Exposure Control	Metering mode	63-zone TTL open-aperture metering using 7560-pixel RGB plus IR metering sensor Evaluative metering (linked to all AF points) Partial metering (approx. 6.0% of viewfinder at center) Spot metering (approx. 3.8% of viewfinder at center) Center-weighted average metering
	Metering brightness range	EV 1 - 20 (at room temperature, ISO 100)
	Shooting mode	Basic Zone modes: Scene Intelligent Auto, Flash Off, Creative Auto, Special scene modes (Food, Kids, Candlelight, Night Portrait, Handheld Night Scene, HDR Backlight Control, Portrait, Landscape, Close-up, Sports), Creative filters (Grainy B/W, Soft focus, Fish-eye effect, Toy camera effect, Miniature effect, Water painting effect, HDR art standard, HDR art vivid, HDR art bold, HDR art embossed) Creative Zone modes: Program AE, Shutter-priority AE, Aperture-priority AE, Manual exposure, Bulb exposure, Custom shooting mode
	ISO speed (Recommended exposure index)	Basic Zone modes*: ISO 100 - ISO 6400 set automatically * Handheld Night Scene: ISO 100 - ISO 12800 set automatically, Landscape: ISO 100 - ISO 1600 set automatically P, Tv, Av, M, B: ISO Auto, ISO 100 - ISO 16000 set manually (1/3- and whole-stop increments), and ISO expansion to H (equivalent to ISO 25600)
	ISO speed settings	Range for stills, Auto range, and Minimum shutter speed for auto settable

	Exposure compensation	Manual: ±5 stops in 1/3- or 1/2-stop increments AEB: ±3 stops in 1/3- or 1/2-stop increments (can be combined with manual exposure compensation)
	AE lock	Auto: Applied in One-Shot AF with evaluative metering when focus is achieved Manual: With AE lock button
	Anti-flicker	Possible
	Interval timer	Shooting interval and shot count settable
	Bulb timer	Bulb exposure time settable
HDR Shooting	Dynamic range adjustment	Auto, ±1, ±2, ±3
	Effects	Natural, Art standard, Art vivid, Art bold, Art embossed
	Auto image alignment	Provided
Multiple Exposures	Number of multiple exposures	2 to 9 exposures
	Multiple-exposure control	Additive, Average
Shutter	Type	Electronically-controlled, focal-plane shutter
	Shutter speed	1/8000 sec. to 30 sec. (total shutter speed range; available range varies by shooting mode), Bulb, X-sync at 1/250 sec.
Drive System	Drive mode	Single shooting, High-speed continuous shooting, Low-speed continuous shooting, Silent single shooting, Silent continuous shooting, 10-sec. self-timer/remote control, 2-sec. self-timer/remote control
	Continuous shooting speed	High-speed continuous shooting: Max. approx. 7.0 shots/sec.* * Max. approx. 5.0 shots/sec. during Live View shooting or when [Servo AF] is set. Low-speed continuous shooting: Max. approx. 3.0 shots/sec. Silent continuous shooting: Max. approx. 3.0 shots/sec.
	Max. burst	JPEG Large/Fine: Approx. 77 shots (approx. 110 shots) RAW: Approx. 20 shots (approx. 25 shots) RAW+JPEG Large/Fine: Approx. 20 shots (approx. 22 shots) * Figures are based on Canon's testing standards (3:2 aspect ratio, ISO 100 and Standard Picture Style) using an 8 GB card.

		* Figures in parentheses apply to an UHS-I compatible 16 GB card based on Canon's testing standards.
Flash	Built-in flash	Retractable, auto pop-up flash Guide No.: Approx. 12/39.4 (ISO 100, in meters/feet) Flash coverage: Approx. 17mm lens angle of view Recharge time: Approx. 3 sec.
	External Speedlite	Compatible with EX-series Speedlites
	Flash metering	E-TTL II autoflash
	Flash exposure compensation	±3 stops in 1/3- or 1/2-stop increments
	FE lock	Provided
	PC terminal	None
	Flash control	Built-in flash function settings, external Speedlite function settings, external Speedlite Custom Function settings Wireless flash control via optical transmission possible
Live View Shooting	Focus method	Dual Pixel CMOS AF system
	AF method	Face+Tracking, FlexiZone-Multi, FlexiZone-Single Manual focus (approx. 5x / 10x magnification possible)
	AF operation	One-Shot AF, Servo AF
	Focusing brightness range	EV 0 - 18 (at room temperature, ISO 100)
	Metering mode	Evaluative metering (315 zones), Partial metering (approx. 6.1% of Live View screen), Spot metering (approx. 2.6% of Live View screen), Center-weighted average metering
	Metering brightness range	EV 0 - 20 (at room temperature, ISO 100)
	Exposure compensation	±3 stops in 1/3-stop or 1/2-stop increments
	Creative filters	Provided
	Silent LV shooting	Provided (Mode 1 and 2)
	Touch shutter	Provided
	Grid display	Three types
Movie Shooting	Recording format	MOV/MP4
	Movie	MPEG-4 AVC / H.264 Variable (average) bit rate
	Audio	MOV: Linear PCM, MP4: AAC

Recording size and frame rate	[MOV] Full HD (1920x1080): 29.97p/25.00p/23.98p [MP4] Full HD (1920x1080): 59.94p/50.00p/29.97p/25.00p/23.98p HD (1280x720) : 59.94p/50.00p/29.97p/25.00p
Compression method	[MOV] : ALL-I (For editing/I-only) [MP4] : IPB (Standard), IPB (Light)
Bit rate	[MOV] Full HD (29.97p/25.00p/23.98p)/ALL-I : Approx. 90 Mbps [MP4] Full HD (59.94p/50.00p)/IPB (Standard) : Approx. 60 Mbps Full HD (29.97p/25.00p/23.98p)/IPB (Standard) : Approx. 30 Mbps Full HD (29.97p/25.00p)/IPB (Light) : Approx. 12 Mbps HD (59.94p/50.00p)/IPB (Standard) : Approx. 26 Mbps HD (29.97p/25.00p)/IPB (Light) : Approx. 4 Mbps HDR Movie Shooting : Approx. 30 Mbps
Focus me	Dual Pixel CMOS AF system
AF method	Face+Tracking, FlexiZone-Multi, FlexiZone-Single Manual focus (approx. 5x / 10x magnification possible)
Movie Servo AF	Provided * Movie Servo AF customizable
Digital zoom	Approx. 3x - 10x
Focusing brightness range	EV 0 - 18 (at room temperature, ISO 100)
Metering mode	Center-weighted average or Evaluative metering
Metering brightness range	EV 0 - 20 (at room temperature, ISO 100)
Exposure control	Autoexposure shooting (Program AE for movie shooting) and manual exposure
Exposure compensation	±3 stops in 1/3- or 1/2-stop increments
ISO speed (Recommended exposure index)	For autoexposure shooting: ISO 100 - SO 12800 set automatically. In Creative Zone modes, the upper limit is expandable to H (equivalent to ISO 25600). For manual exposure shooting: ISO Auto (ISO 100 - ISO 12800 set automatically), ISO 100 - ISO 12800 set manually (1/3- and whole-stop increments), expandable to H (equivalent to ISO 25600)

	ISO speed settings	Range for movie shooting settable
	HDR Movie Shooting	Possible
	Creative filters for movies	Memory, Dream, Old Movies, Dramatic B&W, Miniature effect movie
	Video snapshots	Settable to 2 sec./4 sec./8 sec.
	Sound recording	Built-in stereo microphones, external stereo microphone terminal provided Sound-recording level adjustable, wind filter provided, attenuator provided
	Headphones	Headphone terminal provided, sound volume adjustable
	Grid display	Three types
	Time-lapse movie	Shooting interval and number of shots settable Required shooting time period, playback length, and remaining card capacity viewable
	Still photo shooting	Not possible during movie shooting
LCD Monitor	Type	TFT color, liquid-crystal monitor
	Monitor size and dots	Wide 7.7 cm (3.0 in) (3:2) with approx. 1.04 million dots
	Brightness adjustment	Manual (7 levels)
	Electronic level	Provided
	Interface languages	25
	Touch screen technology	Capacitive sensing
	Feature guide / Help	Displayable
Playback	Image display format	Single-image display (without shooting information), Single-image display (with basic information), Singleimage display (Shooting information displayed: Detailed information, Lens/histogram, White balance, Picture Style 1, Picture Style 2, Color space/noise reduction, Lens aberration correction), Index display (4/9/36/100 images)
	Highlight alert	Overexposed highlights blink
	AF point display	Provided (may not be displayed depending on shooting conditions)
	Grid display	Three types

	Zoom magnification	Approx. 1.5x - 10x
	Image browsing methods	Single image, jump by 10 or 100 images, by shooting date, by folder, by movies, by stills, by rating
	Image rotation	Possible
	Image protection	Possible
	Rating	Possible
	Movie playback	Enabled (LCD monitor, HDMI), built-in speaker
	Slide show	All images, by date, by folder, by movies, by stills, by rating
	Background music	Selectable for slide shows and movie playback
Post-Processing of Images	In-camera RAW image processing	Brightness adjustment, White balance, Picture Style, Auto Lighting Optimizer, High ISO speed noise reduction, JPEG image-recording quality, Color space, Peripheral illumination correction, Distortion correction, Chromatic aberration correction
	Resize	Provided
	Creative filters	Grainy B/W, Soft focus, Fish-eye effect, Art bold effect, Water painting effect, Toy camera effect, Miniature effect
Print Ordering	DPOF	Version 1.1 compliant
Customization Features	Custom Functions	26
	My Menu	Up to 5 screens can be registered
	Custom shooting mode	Register under Mode Dial's C1 or C2
	Copyright information	Entry and appending possible
Interface	DIGITAL terminal	Computer communication (Hi-Speed USB equivalent), GPS Receiver GP-E2, Connect Station CS100 connection
	HDMI mini OUT terminal	Type C (Auto switching of resolution), CEC-compatible
	External microphone IN terminal	3.5 mm diameter stereo mini-jack
	Remote control terminal	For Remote Switch RS-60E3
	Wireless remote control	Compatible with Remote Controller RC-6
	Eye-Fi card	Compatible

Power	Battery	Battery Pack LP-E6N/LP-E6, quantity 1 * AC power usable with household power outlet accessories. *With Battery Grip BG-E14 attached, AA/R6 batteries can be used.
	Battery information	Remaining capacity, Shutter count, Recharge performance, and Battery registration possible
	Number of possible shots: (Based on CIPA testing standards, with 50% flash use)	With viewfinder shooting: Approx. 960 shots at room temperature (23°C/73°F), approx. 860 shots at low temperatures (0°C/32°F) With Live View shooting: Approx. 300 shots at room temperature (23°C/73°F), approx. 270 shots at low temperatures (0°C/32°F)
	Movie shooting time	Total approx. 1 hr. 50 min. at room temperature (23°C/73°F) Total approx. 1 hr. 40 min. at low temperatures (0°C/32°F) *With a fully-charged Battery Pack LP-E6N.
Dimensions and Weight	Dimensions (W x H x D)	Approx. 139.0 x 105.2 x 78.5 mm / 5.47 x 4.14 x 3.09 in.
	Weight	Approx. 730 g / 25.75 oz. (Based on CIPA Guidelines) Approx. 650 g / 22.93 oz. (Body only)
Operation Environment	Working temperature range	0°C - 40°C / 32°F - 104°F
	Working humidity	85% or less

#### Wi-Fi Specifications

Wireless Communications	Standards compliance	IEEE 802.11b/g/n
	Transmission method	DS-SS modulation (IEEE 802.11b) OFDM modulation (IEEE 802.11g/n)
	Transmission range	Approx. 15 m / 49.2 ft. * When connected to a smartphone * With no obstructions between the transmitting and receiving antennas and no radio interference
	Transmission frequency (central frequency)	Frequency : 2412 to 2462 MHz
		Channels : 1 to 11 ch
	Connection method	Camera access point mode, infrastructure* * Wi-Fi Protected Setup supported

	Security	Authentication method: Open system, Shared key, WPA/WPA2-PSK Encryption: WEP, TKIP, AES
	NFC connection	For communication with smartphones or connection to Connect Station
Wi-Fi Functions	Connection to smartphones	Images can be viewed, controlled, and received using a smartphone. Remote control of the camera using a smartphone is possible. Images can be sent to a smartphone.
	Transfer images between cameras	Transferring one image, Transferring selected images, Transferring resized images
	Connect to Connect Station	Images can be sent to and saved on Connect Station.
	Remote operation using EOS Utility	Remote control functions and image viewing functions of EOS Utility can be used wirelessly.
	Print from Wi-Fi printers	Images to be printed can be sent to a printer supporting Wi-Fi.
	View images using a media player	Images can be viewed using a DLNA-compatible media player.
	Send images to a Web service	Images in the camera or links to images can be sent to registered Web services.

#### Battery Pack LP-E6N

Type	Rechargeable lithium-ion battery
Rated voltage	7.2 V DC
Battery capacity	1865 mAh
Working temperature range	0°C - 40°C / 32°F - 104°F
Working humidity	85% or less
Dimensions (W x H x D)	Approx. 38.4 x 21.0 x 56.8 mm / 1.5 x 0.8 x 2.2 in.
Weight	Approx. 80 g / 2.8 oz. (excluding protective cover)

#### Battery Charger LC-E6

Compatible battery	Battery Pack LP-E6N/LP-E6
Recharging time	Approx. 2 hr. 30 min.
Rated input	100 - 240 V AC (50/60 Hz)
Rated output	8.4 V DC / 1.2 A

Working temperature range	5°C - 40°C / 41°F - 104°F
Working humidity	85% or less
Dimensions (W x H x D)	Approx. 69.0 x 33.0 x 93.0 mm / 2.7 x 1.3 x 3.7 in.
Weight	Approx. 115 g / 4.1 oz.

#### Battery Charger LC-E6E

Compatible battery	Battery Pack LP-E6N/LP-E6
Power cord length	Approx. 1 m / 3.3 ft.
Recharging time	Approx. 2 hr. 30 min.
Rated input	100 - 240 V AC (50/60 Hz)
Rated output	8.4 V DC/1.2 A
Working temperature range	5°C - 40°C / 41°F - 104°F
Working humidity	85% or less
Dimensions (W x H x D)	Approx. 69.0 x 33.0 x 93.0 mm / 2.7 x 1.3 x 3.7 in.
Weight	Approx. 110 g / 3.9 oz. (excluding power cord)