


Specifications (EOS 77D)

Last Updated : 14-Feb-2017

Issue Number : 6200438200

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 to the nearest 100,000.
	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 Large 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. 3.8 megapixels (2400 x 1600) RAW : 24.0 megapixels (6000 x 4000)
	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 White balance correction, and White balance bracketing provided * Flash color temperature information transmission possible
	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, Diffraction correction
Viewfinder	Type	Eye-level pentamirror
	Field of view coverage	Vertical/Horizontal approx. 95% (with Eye point approx. 19 mm and aspect ratio set to 3:2)
	Magnification	Approx. 0.82x (-1 m ⁻¹ with 50mm lens at infinity)
	Eyepoint	Approx. 19 mm (from eyepiece lens center at -1 m ⁻¹)
	Dioptric adjustment range	Approx. -3.0 - +1.0 m ⁻¹ (dpt)
	Focusing screen	Fixed, Precision Matte
	Grid display	Provided
	Electronic level display	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	Max. 45 points (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	One-Shot AF, AI Servo AF, AI Focus AF, Manual focusing (MF)

	operation	
	AF area selection mode	Single-point AF (Manual selection), Zone AF (Manual selection of zone), Large Zone AF (manual selection of zone), Automatic selection AF
	AF point automatic selection conditions	Automatic AF point selection possible based on color information equivalent to skin tones.
	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 <ul style="list-style-type: none"> • Evaluative metering (linked to all AF points) • Partial metering (approx. 6.0% of viewfinder at center) • Spot metering (approx. 3.5% 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, Portrait, Landscape, Close-up, Sports, Special scene modes (Group Photo, Kids, Food, Candlelight, Night Portrait, Handheld Night Scene, HDR Backlight Control), 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) Creative Zone modes: Program AE, Shutter-priority AE, Aperture-priority AE, Manual exposure
	ISO speed (Recommended exposure index)	Basic Zone modes: ISO speed set automatically Creative Zone modes: ISO Auto, ISO 100 - ISO 25600 set manually (whole-stop increments), and ISO expansion to H (equivalent to ISO 51200) provided
	ISO speed settings	Maximum limit for ISO Auto settable
	Exposure compensation	Manual: $\pm 5^*$ stops in 1/3- or 1/2-stop increments * With [ : Shooting screen: Guided] set, ± 3 stops AEB: ± 2 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
	Flicker reduction	Provided
	Interval timer	Shooting interval and number of shots settable
	Bulb timer	Bulb exposure time settable
Shutter	Type	Electronically-controlled, focal-plane shutter
	Shutter speed	1/4000 sec. to 30 sec. (total shutter speed range; available range varies by shooting mode), Bulb, X-sync at 1/200 sec.
Drive	Drive mode	Single shooting, High-speed continuous shooting, Low-speed continuous

System		shooting, 10-sec. self-timer/ remote control, 2-sec. delay, 10-sec. delay with continuous shooting
	Continuous shooting speed	High-speed continuous shooting: Max. approx. 6.0 shots/sec.* * Max. approx. 4.5 shots/sec. during Live View shooting or when [Servo AF] is set. Low-speed continuous shooting: Max. approx. 3.0 shots/sec.* * Max. approx. 3.5 shots/sec. during Live View shooting
	Max. burst	JPEG Large/Fine: Approx. 190 shots (Card Full) RAW: Approx. 21 shots (approx. 27 shots) RAW+JPEG Large/Fine: Approx. 19 shots (approx. 23 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. * "Card Full" indicates that shooting is possible until the card becomes full.
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	±2 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, Smooth zone, Live 1-point AF Manual focus (approx. 5x / 10x magnification possible)
	AF operation	One-Shot AF, Servo AF
	Focusing brightness range	EV -2 - 18 (at room temperature, ISO 100, One-Shot AF)
	Metering mode	Evaluative metering (315 zones), Partial metering (approx. 6.0% 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
	Touch shutter	Provided

Grid display

Three types

Movie Shooting	Recording format	MP4 * Time-lapse movie shooting: MOV
	Movie	MPEG-4 AVC / H.264 Variable (average) bit rate
	Audio	AAC
	Recording size and frame rate	Full HD (1920x1080): 59.94p/50.00p/29.97p/25.00p/23.98p HD (1280x720): 59.94p/50.00p/29.97p/25.00p VGA (640x480): 29.97p/25.00p
	Compression method	IPB (Standard), IPB (Light) * Time-lapse movie shooting: ALL-I
	Bit rate	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 VGA (29.97p/25.00p) (Standard) : Approx. 9 Mbps VGA (29.97p/25.00p) (Light) : Approx. 3 Mbps HDR Movie : Approx. 30 Mbps Time-lapse movie : Approx. 90 Mbps
	Focus system	Dual Pixel CMOS AF system
	AF method	Face+Tracking, Smooth zone, Live 1-point AF Manual focus (approx. 5x / 10x magnification available for focus check)
	Movie Servo AF	Provided
	Movie digital IS	Provided (Enable/Enhanced)
	Digital zoom	Approx. 3x - 10x
	Focusing brightness range	EV -2 - 18 (at room temperature, ISO 100, One-Shot AF)
	Metering mode	Center-weighted average and Evaluative metering with the image sensor * Automatically set by the AF method
	Metering brightness range	EV 0 - 20 (at room temperature, ISO 100, with centerweighted average metering)
	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 - ISO 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 (whole-stop increments), expandable to H (equivalent to ISO 25600)
	ISO speed settings	Maximum limit for ISO Auto settable
	HDR Movie Shooting	Possible
	Creative filters for movies	Dream, Old Movies, Memory, 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
	Grid display	Three types
	Time-lapse movie	Shooting interval (hours:minutes:seconds), Number of shots, Auto exposure (Fixed 1st frame, Each frame), LCD auto off, Beep as image shot settable
	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
Playback	Image display format	Single-image display (without shooting information), Single-image display (with basic information), Single-image 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)
	Zoom magnification ratio	Approx. 1.5x - 10x
	Image search	Search conditions settable (Rating, Date, Folder, Protect, File type)
	Image browsing methods	Single image, 10 images, specified number, date, folder, movies, stills, protect, rating
	Image rotation	Possible

	Image protection	Possible
	Rating	Provided
	Movie playback	Enabled (LCD monitor, HDMI), built-in speaker
	Slide show	Automatically play back all images or the images that match search conditions
	Background music	Selectable for slide shows and movie playback
Post-Processing of Images	Creative filters	Grainy B/W, Soft focus, Fish-eye effect, Art bold effect, Water painting effect, Toy camera effect, Miniature effect
	Resize	Provided
	Cropping	Provided
Print Ordering	DPOF	Version 1.1 compliant
Customization Features	Custom Functions	14
	My Menu	Up to 5 screens can be registered
	Copyright information	Text entry and appending possible
	Display level settings	Shooting screen, Menu display, Mode guide, Feature guide
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 Directional Stereo Microphone DM-E1 connection
	Remote control terminal	For Remote Switch RS-60E3
	Wireless remote control	Compatible with Wireless Remote Control BR-E1 (Bluetooth connection) and Remote Controller RC-6
	Eye-Fi card	Supported
Power	Battery	Battery Pack LP-E17 (Quantity 1) * AC power usable with household power outlet accessories.
	Number of possible shots	With viewfinder shooting: Approx. 600 shots at room temperature (23°C/73°F), approx. 550 shots at low temperatures (0°C/32°F) With Live View shooting: Approx. 270 shots at room temperature (23°C/73°F), approx. 230 shots at low temperatures (0°C/32°F) *With a fully-charged Battery Pack LP-E17.
	Movie shooting time	Approx. 1 hr. 55 min. at room temperature (23°C/73°F) Approx. 1 hr. 50 min. at low temperatures (0°C/32°F) *With a fully-charged Battery Pack LP-E17.
Dimensions and Weight	Dimensions (W x H x D)	Approx. 131.0 x 99.9 x 76.2 mm / 5.16 x 3.93 x 3.00 in.

	Weight	Approx. 540 g / 19.05 oz. (Including battery and card) Approx. 493 g / 17.39 oz. (Body only)
Operation Environment	Working temperature range	0°C - 40°C / 32°F - 104°F
	Working humidity	85% or less

Wi-Fi/NFC/Bluetooth Function

Wi-Fi	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 communicating with 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
	Communication with a smartphone	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 can be sent to a Wi-Fi printer.
	Send images to a Web service	Images in the camera or links to images can be sent to registered Web services.
NFC	Standards compliance	NFC Forum Type 3/4 Tag compliant (dynamic)
Bluetooth	Standards compliance	Bluetooth Specification Version 4.1 compliant (Bluetooth low energy technology)
	Transmission method	GFSK modulation

Battery Pack LP-E17

Type	Rechargeable lithium-ion battery
Rated voltage	7.2 V DC

Battery capacity	1040 mAh
Working temperature range	For charging: 5°C - 40°C / 41°F - 104°F For shooting: 0°C - 40°C / 32°F - 104°F
Working humidity	85% or less
Dimensions (W x H x D)	Approx. 33.0 x 14.0 x 49.4 mm / 1.30 x 0.55 x 1.94 in.
Weight	Approx. 45 g / 1.59 oz. (excluding protective cover)

Battery Charger LC-E17

Compatible battery	Battery Pack LP-E17
Recharge time	Approx. 2 hours (at room temperature (23°C/73°F))
Rated input	100 - 240 V AC (50/60 Hz)
Rated output	8.4 V DC / 700 mA
Working temperature range	5°C - 40°C / 41°F - 104°F
Working humidity	85% or less
Dimensions (W x H x D)	Approx. 67.3 x 27.7 x 92.2 mm / 2.65 x 1.09 x 3.63 in.(prongs retracted)
Weight	Approx. 85 g / 3 oz.

Battery Charger LC-E17E

Compatible battery	Battery Pack LP-E17
Recharge time	Approx. 2 hours (at room temperature (23°C/73°F))
Rated input	100 - 240 V AC (50/60 Hz)
Rated output	8.4 V DC / 700 mA
Working temperature range	5°C - 40°C / 41°F - 104°F
Working humidity:	85% or less
Dimensions (W x H x D)	Approx. 67.3 x 27.7 x 92.2 mm / 2.65 x 1.09 x 3.63 in. (excluding power cord)
Weight	Approx. 80 g / 2.82 oz. (excluding power cord)

See	All the data above is based on Canon's testing standards and CIPA (Camera & Imaging Products Association) testing standards and guidelines.
	Dimensions and weight listed above are based on CIPA Guidelines (except weight for camera body only).
	Product specifications and the exterior are subject to change without notice.
	If a problem occurs with a non-Canon lens attached to the camera, consult the respective lens manufacturer.

Was this helpful?

YES. It
solved my
issue

It covered
my problem,
but the
solution still
didn't work

The
information
on the page
is hard to
understand

It has
nothing to
do with my
issue

Submit