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Canon EOS 40D **Preview**

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Canon EOS 40D specifications

List price (body only)	• US: $ 1,299 • EU: € 1,299
Body material	Magnesium alloy
Sensor *	• 22.2 x 14.8 mm CMOS sensor • RGB Color Filter Array • Built-in fixed low-pass filter (with self-cleaning unit) • 10.5 million total pixels • 10.1 million effective pixels

	• 5.7 µm pixel pitch • 3:2 aspect ratio
Image processor *	DIGIC III
A/D conversion *	14 bit
Image sizes *	• 3888 x 2592 (L; 10.1 MP) • 2816 x 1880 (M; 5.3 MP) • 1936 x 1288 (S; 2.5 MP)
File formats	• RAW (.CR2; 14-bit *) • JPEG (EXIF 2.21) - Fine / Normal • RAW + JPEG (separate files) • sRAW (2.5 MP) *
File sizes (approx.) *	• JPEG L/Fine: 3.5 MB • JPEG M/Fine: 2.1 MB • JPEG S/Fine: 1.2 MB • RAW: 12.4 MB • sRAW: 7.1 MB
Lenses	• Canon EF / EF-S lens mount • 1.6x field of view crop
Dust reduction *	• "EOS Integrated Cleaning System" • Self-cleaning sensor unit (filter in front of sensor vibrates at high frequency at start-up and shutdown - can be disabled) • Dust Delete Data - Data from a test shot is used to 'map' dust spots and can be later removed using Canon DPP Software
Auto focus	• 9-point TTL CMOS sensor • All points cross-type for lenses of F5.6 or faster * • Center point additionally sensitive with lenses of F2.8 or faster * • AF working range: -0.5 - 18 EV (at 23°C, ISO 100)
Focus modes	• One shot AF • AI Servo AF • AI Focus AF • Manual focus
AF point selection	• Auto • Manual
AF assist	• Stroboscopic flash • 4.0 m range (at center)
Metering	• TTL 35 zone SPC • Metering range: EV 0.0 - 20 EV *
Metering modes	• Evaluative 35 zone • Partial (9% at center) • Spot metering (approx. 3.8% at center *) • Center-weighted average
AE lock	• Auto: One Shot AF with evaluative metering • Manual: AE lock button
Exposure compensation	• +/-2.0 EV • 0.3 or 0.5 EV increments
Exposure bracketing	• +/- 2.0 EV • 0.3 or 0.5 EV increments
Sensitivity	• Auto ISO (see below) * • ISO 100 - 1600 • 0.3 or 1.0 EV increments • ISO 3200 (Enhanced H)
Auto ISO *	• P, Av, A-Dep: ISO 400 - 800 (will drop to ISO 100 to avoid over-exposure) • Tv: ISO 400 (will use 100 - 800 if required) • M: ISO 400 • Scene modes (apart from Sport and Portrait): ISO 100 - 800 • Sport scene mode: ISO 400 - 800 • Portrait scene mode: ISO 100 • With flash (all modes): ISO 400
Shutter	• Focal-plane shutter • 100,000 exposure durability

	• 30 - 1/8000 sec • 0.3 or 0.5 EV increments • Flash X-Sync: 1/250 sec • Bulb
Aperture values	• F1.0 - F91 • 0.3 or 0.5 EV increments • Actual aperture range depends on lens used
Noise reduction	• Long exposure (1 sec or longer) • Optional for High ISO (default Off)
White balance	• Auto • Daylight • Shade • Cloudy • Tungsten • Fluorescent • Flash • Custom • Kelvin (2500 * - 10000 K in 100 K steps)
WB bracketing	• +/-3 levels • 3 images • Blue / Amber or Magenta / Green bias
WB shift	• Blue (-9) To Amber (+9) • Magenta (-9) to Green (+9)
Picture style	• Standard • Portrait • Landscape • Neutral • Faithful • Monochrome • User def. 1 • User def. 2 • User def. 3
Custom image parameters	• Sharpness: 0 to 7 • Contrast: -4 to +4 • Saturation: -4 to +4 • Color tone: -4 to +4 • B&W filter: N, Ye, Or, R, G • B&W tone: N, S, B, P, G
Color space	• sRGB • Adobe RGB
Viewfinder	• Eye-level pentaprism • 95% frame coverage • Magnification: 0.95x * (-1 diopter with 50 mm lens at infinity) • Eyepoint: 22 mm * • Interchangeable focusing screen Ef-A standard (2 other types optional) * • Dioptric adjustment: -3.0 to +1.0 diopter
Focusing screens (optional)	• Ef-A (Standard Precision Matte - included) • Ef-D (Precision Matte with grid) • Ef-S (Super Precision Matte for easier manual focus)
Mirror	• Quick-return half mirror (transmission:reflection ratio 40:60) • Mirror lock-up (once or multiple exposures)
Viewfinder info	• AF points • Focus confirmation light • ISO sensitivity * • Shutter speed • Aperture • Manual exposure • AE Lock • Exposure compensation amount • AEB level • Spot metering area • Flash ready • Red-eye reduction lamp on • High-speed sync • FE Lock

	• Flash compensation amount • ISO speed (while changing) • WB correction (while changing) • B&W mode icon * • Warnings • Maximum burst for continuous shooting • Buffer space
LCD monitor *	• 3.0 " TFT LCD • 230,000 pixels • 7 brightness levels
LCD Live view *	• Live TTL display of scene from CMOS image sensor • 100% frame coverage • Real-time evaluative metering using CMOS image sensor • Best view or exposure simulation • Grid optional (thirds) • Magnify optional (5x or 10x at AF point) • Optional Auto-focus with mirror-down / mirror-up sequence • Two modes; normal and quieter • Remote live view using EOS Utility 2.0 (via USB or WiFi/Ethernet using WFT) • Manual focus only
Record review	• Off • On (histogram via INFO button) • Display mode same as last used Play mode • 2 / 4 / 8 sec / Hold
Playback modes *	1. Single image with exposure, file number, storage slot 2. As 1 but also image count and quality 3. Detailed exposure information, thumbnail and luminance histogram 4. Less detailed exposure info., thumbnail, luminance and RGB histograms
Playback features	• Optional blinking highlight alert * • Optional AF point display * • Magnified view (up to 10x) • 2x2 * or 3x3 thumbnail index • Jump (by 1, 10, 100 images / by screen or date) • Delete / Protect
Flash	• Auto pop-up E-TTL II auto flash • FOV coverage up to 17 mm (27 mm equiv.) • Guide number approx 13 m / 43 ft (ISO 100) • Cycle time approx. 3 sec • Flash compensation +/-2.0 EV in 0.3 or 0.5 EV increments • X-Sync: 1/250 sec
External flash	• E-TTL II auto flash with EX-series Speedlites • In-camera flash configuration (currently only 580 EX II) * • Wireless multi-flash support • PC Sync
Shooting modes	• Auto • Program AE (P) • Shutter priority AE (Tv) • Aperture priority AE (Av) • Manual (M) • Auto depth-of-field • Portrait • Landscape • Close-up • Sports • Night portrait • Flash off • Camera user settings 1 * • Camera user settings 2 * • Camera user settings 3 *
Drive modes	• Single • High-speed continuous: 6.5 fps * • Low-speed continuous: 3 fps • Self-timer: 2 or 10 sec (3 sec with mirror lock-up)

Burst buffer *	• Large/Fine JPEG: 75 frames • RAW: 17 frames • RAW+JPEG: 14 frames
Orientation sensor	Yes
Auto rotation *	• On (recorded and LCD display) • On (recorded only) • Off
Custom functions *	24 custom functions in 4 groups
Menu languages *	• English • German • French • Dutch • Danish • Portuguese • Finnish • Italian • Norwegian • Swedish • Spanish • Greek • Russian • Polish • Simplified Chinese • Traditional Chinese • Korean • Japanese
Firmware	User upgradable
Portrait grip	• Optional WFT-E3/E3A * • Optional BP-E2N battery grip * • Optional BP-E2 battery grip
Connectivity	• USB 2.0 Hi-Speed • Video out • N3 type wired remote control • PC Sync flash terminal • Communication terminal on base for WFT-E3/E3A *
Storage	• Compact Flash Type I or II (inc. FAT32) • Canon Original Data Security Kit supported ("Original Image Data") • No CF card supplied
Power	• Lithium-Ion BP-511A rechargeable battery (supplied & charger) • Supports BP-511 / BP-511A / BP-512 / BP-514 • CR2016 Lithium battery (date/time backup) • Optional AC adapter
Wireless connectivity * (optional WFT-E3/E3A)	• Mounts on base of camera and also acts as vertical grip • Has its own BP-511A battery • Wireless 802.11b / 802.11g • Wireless security: WEP, TKIP/AES, WPA-PSK, WPA2-PSK • Wireless methods: Infrastructure or Ad Hoc • Wired ethernet (100 Base-TX) • Transfer: FTP, PTP (remote control by computer), HTTP (view / remote fire) • USB host capable: External hard drives, flash drives • USB comms: GPS devices (records coordinates and altitude in image header)
Dimensions *	146 x 108 x 74 mm (5.7 x 4.2 x 2.9 in)
Weight *	• No battery: 740 g (1.6 lb) • With battery: 822 g (1.8 lb)

* New or changed compared to the EOS 30D

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