

Canon EOS 40D vs Nikon 300D vs Sony A700 [Updated December 2, 2007]

	Canon EOS 40D	Nikon D300	Sony A700
Sensor Size/Type:	22.2 x 14.8 mm CMOS	23.6 x 15.8 mm CMOS	23.5 x 15.6 mm CMOS
Effective Pixels:	10.1 megapixels	12.3 megapixels	12.25 megapixels
A/D Resolution Power:	14-bit	12/14-bit	12-bit
Colour Filter:	RGB Primary Colours	RGB Primary Colours	RGB Primary Colours
Field-of-View Crop:	1.6x	1.5x	1.5x
Dust Removal System	Yes	Yes	Anti-static coating + image sensor vibration
Recording Media:	CF Type I, II, single slot	CF Type I, II, single slot; UDMA compliant	Dual slot: Memory Stick Duo + CF Type I, II
Image Sizes:	3888 x 2592, 3504 x 2336, 1728 x 1152; RAW - 3504 x 2336; sRAW - 1936 x 1288	4288 x 2848, 3216 x 2136, 2144 x 1424	RAW: 4288 x 2856, 4272 x 2848 JPEG: 4272 x 2400, 3104 x 2064, 3104 x 1744, 2128 x 1424, 2128 x 1200
File Formats:	CR2.RAW (3,504 x 2,336), sRAW (1,936 x 1,288) JPEG, RAW+JPEG	NEF (RAW), TIFF, JPEG, RAW+JPEG	ARW (RAW), JPEG, RAW+JPEG
File Numbering:	Consecutive numbering, auto reset, manual reset	unknown	Consecutive numbering, manual reset
Colour Space:	sRGB, Adobe RGB	sRGB (x2), Adobe RGB	sRGB, Adobe RGB
Picture Style/Control settings:	Standard, Portrait, Landscape, Neutral, Faithful, User Def. 1-3	Standard, Neutral, Vivid, Monochrome	Standard, Vivid, Neutral, Adobe RGB, Clear, Deep, Light, Portrait, Landscape, Sunset, Night view, Autumn leaves, Monochrome, Sepia

	Canon EOS 40D	Nikon D300	Sony A700
Viewfinder:	Eye-level pentaprism; 95% coverage (vertical/horizontal); 0.95x magnification; 22mm eyepoint	Eye-level pentaprism; 100% coverage; approx. 0.94x magnification; 19.5mm eyepoint	Eye-level pentaprism; 95% frame coverage; approx 0.9x magnification; 21-25mm eye relief
Dioptric Adjustment:	-3 to +1 dpt	-2.0 to +1 dpt	-3 to +1 dpt
Interchangeable Focusing Screens:	Yes	no	no
Viewfinder Information	AF points, focus confirmation, shutter speed, aperture, AE lock, exposure level, exposure compensation, ISO setting, exposure warnings, flash ready, red-eye reduction, high-speed sync, FE lock, flash exposure compensation, WB correction, AEB, B&W mode, maximum burst, CF card status	Framing grid, AF points, AF area, battery status, focus confirmation, metering, AE lock, shutter speed, aperture, exposure mode, flash compensation, exposure level, exposure compensation, ISO setting, remaining shots counter, flash ready, FV lock, flash sync indicator, analog exposure display	AF points, focus confirmation, 16:9 aspect ratio marks, shutter speed, aperture, AE lock, exposure level, exposure compensation, camera shake warning, flash ready, flash compensation, wireless/high-speed sync, remaining shots counter
Autofocus System:	TTL secondary image-registration, phase detection	TTL phase detection with Nikon MultiCAM 3500DX module	TTL phase detection using CCD line sensors
AF Points:	9 (Cross-type); auto/manual selection	51 (single point selection from 51 or 11 points)	Central cross-type sensor plus 10 AF points
Focus Modes:	One-Shot AF, AI Servo AF, AI Focus AF, Manual focusing (MF)	Single-servo AF, continuous-servo AF, manual focusing; predictive focus tracking automatically activated in continuous AF mode	Single-shot, Automatic AF, Continuous AF, Manual focusing; eye-start AF selectable
AF Assist	Small series of flashes fired by built-in flash; Effective range - approx. 4.0 m at centre; 3.5 m at periphery	Dedicated lamp	Dedicated lamp

	Canon EOS 40D	Nikon D300	Sony A700
Metering Modes:	35-zone TTL full-aperture metering Evaluative metering (linkable to any AF point) Centre-weighted average metering Partial metering (approx. 9% of viewfinder at centre) Spot metering (approx. 3.8% of viewfinder at centre)	TTL full-aperture metering with 1005-pixel RGB sensor 3D Colour matrix Metering II Centre-weighted (6-13 mm circle at centre) Spot metering (3mm circle)	TTL full-aperture metering with 40-segment honeycomb pattern SPC sensor Multi-segment, Centre-weighted and Spot metering
Exposure Control:	Auto, Program AE (shiftable), Shutter-priority AE, Aperture-priority AE, Manual, Auto depth-of-field, Portrait, Landscape, Close-up, Night portrait, Flash off, 3 banks of user-programmable settings	Program AE with flexible program, Shutter-priority auto, Aperture-priority auto, Manual	Auto, Program AE (with program shift), Shutter-priority, Aperture-priority, Manual, Scene selection (Portrait, Landscape, Macro, Sports, Sunset, Night view/portrait)
ISO Speed Range:	ISO 100-1600 (expandable to 3200 via CF)	ISO 200-3200 (expandable to 100 and 6400)	ISO 200-1600 (expandable to 100 and 3200)
Exposure Compensation:	±2 stops in 1/3- or 1/2-stop increments (can be combined with AEB)	+/- 5 EV in increments of 1/3, 1/2 or 1 EV	+/- 3 EV in increments of 0.3, 0.5 or 0.7 EV
Shutter Speed:	1/8000 to 30 sec. (1/3- and 1/2-stop increments), bulb, X-synch at 1/250 sec.	1/8000 to 30 sec in steps of 1/3, 1/2 or 1 EV plus Bulb; X-synch at 1/250 sec.	1/8000 to 30 sec plus Bulb; X-synch at 1/250 sec. (Super Steady Shot off) or 1/200 sec. (Super Steady Shot on)
Shutter Durability Rating:	100,000 cycles	150,000 cycles	100,000 cycles
Self-timer:	10-sec. or 2-sec. delay	2, 5, 10 or 20 sec. delay	2 or 10 sec delay
Remote Control:	N3 type terminal	10-pin terminal	Wireless supplied (wired optional)
Built-in Flash GN:	13 (ISO 100, in meters)	12 (ISO 100 in metres)	12 (metres at ISO 100)

	Canon EOS 40D	Nikon D300	Sony A700
Flash Exposure Compensation:	±2 stops in 1/3- or 1/2-stop increments	-3 to +1 EV in increments of 1/3, 1/2 or 1 EV	+/- 3 EV in increments of 0.3 EV
Continuous Shooting Speed:	High-speed: 6.5 fps Low-speed: 3 fps	High-speed: 8 fps Low-speed: 1 fps	High-speed: 5 fps max. Low-speed: approx. 3 fps
Maximum burst:	JPEG (Large/Fine): approx. 75; RAW: approx 17	JPEG (Normal): up to 100	JPEG (Fine): unlimited; RAW: 18 frames
White Balance:	Auto, daylight, shade, cloudy, tungsten, fluorescent, flash, custom, colour temperature (2500-10,000 K)	Auto plus seven manual modes with fine-tuning, colour temperature setting	Auto, Daylight, Shade, Cloudy, Tungsten, Fluorescent, Flash; Colour Temperature / Colour filter, Custom
WB Compensation:	+/- 9 stops adjustment in blue/amber or magenta/green directions in full-step increments; WB bracketing of +/- 3 steps	Bracketing of 2-9 exposures in increments of 1, 2 or 3	bracketing of 3 frames H/L selectable
LCD Monitor:	3.0-inch TFT colour LCD; 230,000 pixels	3.0-inch TFT colour LCD, 920,000 pixels	3.0-inch TFT colour LCD, 921,600 dots
Live View modes:	1) Live View shooting; 2) Remote Live View (PC-connected; supports auto/manual focus, evaluative metering, magnification by 5x or 10x at AF point, grid display, exposure simulation	1) Handheld: TTL phase difference AF with 51 focus points 2) Tripod: focal-plane contrast AF on selected point	Live View not supported
Image Playback:	Single image, single image + shooting data, single image + picture count & quality, 4- or 9-image index, 1.5x to 10x magnification at AF point, rotate image, image jump (1/10/100 frames), thumbnail + exposure data and brightness or RGB histogram	Full frame, thumbnail (4 or 9 segment), zoom, slideshow, RGB histogram, shooting data, highlight point display, auto image rotation	Full frame, large frame plus 4 thumbnails (previous or following frames); index (4 or 25 segments), zoom, slideshow, RGB histogram, shooting data, highlight point display, auto image rotation
Custom Functions:	Total 24: My Menu registration provided	48	21
Sound Recording:	Yes (max. 30 sec)	no	no

	Canon EOS 40D	Nikon D300	Sony A700
GPS Data transfer:	Yes	Yes	no
Terminals:	USB 2.0 Hi-Speed, Video Out (PAL/NTSC); WFT-E3/E3A	USB Hi-speed, HDMI, Video Out (PAL/NTSC), GPS, 10-pin remote	HDMI (type C minijack), USB 2.0 Hi-speed, Video Out (PAL/NTSC), remote control
Battery:	Single battery pack (BP-511A), Optional battery grip (BG-E2N)	EN-EL3e battery pack; Optional Multi-Power pack (MB-D10)	NP-FM500H (7.2 v)
Wireless file transmission:	supported	supported	no
Dimensions (w x d x h)	145.5 107.8 x 73.5 mm	147 x 114 x 74 mm	141.7 X 104.8 X 79.7 mm
Weight:	Approx. 740 grams (body only)	Approx. 825 grams	Approx. 690 grams (body only)
RRP (body only):	\$1,999	\$2,899	\$2,249