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Nikon D40X in-depth review

2. Specifications

Nikon D40X specifications

Body only price	US: $ 729
Kit price (with 18-55 mm lens)	US: $ 799
Body color	Black or Silver
Sensor	• 23.7 x 15.6 mm CCD sensor • Nikon DX format (1.5x FOV crop) • 10.2 million effective pixels • 10.8 million total pixels • RGB Color Filter Array • 12-bit A/D converter
Image sizes	• 3872 x 2592 (Large, 10.0 MP) • 2896 x 1944 (Medium, 5.6 MP) • 1936 x 1296 (Small, 2.5 MP)
Image quality	• NEF (12-bit compressed RAW) • JPEG fine • JPEG normal • JPEG basic • NEF (RAW) + JPEG basic

Color space	• IIIa (sRGB - more green for colourful landscapes) default • Ia (sRGB) • II (Adobe RGB)
Lens mount	Nikon F mount (with AF contacts)
Lens compatibility	Type G or D AF Nikkor • AF-S, AF-I - All functions supported • Other Type G or D AF Nikkor - All functions supported except • PC Micro-Nikkor 85mm f/2.8D autofocus - Can only be used in mode M; all other • Other AF Nikkor*2/AI-P Nikkor functions supported except autofocus - All functions supported except • Non-CPU autofocus and 3D Color Matrix Metering II - Can be used in mode M, but exposure meter does not function; electronic range • IX Nikkor finder can be used if maximum aperture is f/5.6 or faster - Can not be used
Autofocus	• Three area TTL phase detection • Nikon Multi-CAM530 autofocus module • Only with AF-S or AF-I lenses • Detection range: EV -1 to +19 (ISO 100 equivalent, at normal temperature)
Lens servo	• Single-servo AF (AF-S) • Continuous-servo AF (AF-C) • Automatic AF-S/AF-C (AF-A) • Manual focus (M)
AF Area mode	• Single Area AF • Dynamic Area AF • Closest Subject Priority Dynamic Area AF
Focus tracking	Predictive focus tracking automatically activated according to subject status in continuous-servo AF
Focus area	One of three areas can be selected
Focus lock	Focus can be locked by pressing shutter-release button halfway (single-servo AF) or by pressing AE-L/AF-L button
AF Assist	White light lamp
Exposure mode	• Digital Vari-program - Auto - Flash off - Portrait - Landscape - Child - Sports - Close up - Night portrait • Programmed auto (P) with flexible program • Shutter-priority auto (S) • Aperture priority auto (A) • Manual (M)
Metering	TTL full-aperture exposure metering system • 3D color matrix metering II • 420 segment RGB sensor • Center-weighted: Weight of 75% given to a 8mm circle in center of frame • Spot: Meters 3.5 mm circle (about 2.5% of frame) centered on active focus area
Metering range	• EV 0 to 20 (3D color matrix or center-weighted metering) • EV 2 to 20 (spot metering) (ISO 100 equivalent, f/1.4 lens, 20 °C)
Meter coupling	CPU coupling
Exposure compen.	• +/- 5.0 EV • 1/3 EV steps
AE Lock	Exposure locked at detected value with AE-L/AF-L button

AE Bracketing	None
Sensitivity	• Auto • ISO 100 • ISO 200 • ISO 400 • ISO 800 • ISO 1600 • ISO 3200 equiv. (HI 1)
Auto ISO options	• On/Off • Maximum ISO (200, 400, 800 or 1600) • Minimum shutter speed (1 to 1/125 sec)
Shutter	• Combined mechanical and CCD electronic shutter • 30 to 1/4000 sec (1/3 EV steps) • Flash X-Sync: up to 1/200 sec • Bulb
White balance	• Auto (TTL white-balance with 420 pixels RGB sensor) • Six manual modes with fine-tuning o Incandescent o Fluorescent o Direct sunlight o Flash o Cloudy o Shade • Preset white balance (immediate or from photo)
WB fine tuning	Yes
Image parameters	• Preset modes: Normal, Softer, Vivid, More Vivid, Portrait, B&W • Sharpening: Auto, 6 levels • Tone: Auto, 5 levels, Custom curve • Color mode: Ia (sRGB), II (Adobe RGB), IIIa (sRGB) • Saturation: Auto, 3 levels • Hue: -9° to +9°
Viewfinder	• Optical fixed eye-level • Penta-mirror type • Built-in diopter adjustment (-1.7 to +0.5 m^{-1}) • Eyepoint: 18 mm (at -1.0 m^{-1}) • Frame coverage 95% (approx.) • Viewfinder magnification approx. 0.8x with 50mm lens at infinity; -1.0 m^{-1} • Focusing screen: Type B BriteView clear matte screen Mark V with superimposed focus brackets
Viewfinder information	Focus indications, AE/FV lock indicator, Shutter speed, Aperture value, Exposure/Exposure compensation indicator, Exposure mode, Flash output level compensation, Exposure compensation, Number of remaining exposures, Flash-ready indicator
LCD monitor	• 2.5" TFT LCD • 230,000 pixel
Built-in flash	• Auto pop-up in Auto, Vari-program modes • Manual pop-up in P, S, A or M modes • Guide number approx. 17 at ISO 200
Sync contact	X-contact only; flash synchronization at shutter speeds of up to 1/200 sec
Flash control	• TTL flash control by 420-segment RGB sensor. i-TTL balanced fill-flash for digital SLR and standard i-TTL fill-flash for digital SLR available when CPU lens is used with built-in flash, SB-400, SB-800, and SB-600 • Auto aperture with SB-800 and CPU lenses • Non-TTL auto with SB-800, 80DX, 28DX, 28, 27 and 22s • Range-priority manual with SB-800
Flash mode	• Auto, Portrait, Child, Close-up: Auto, auto with red-eye reduction; fill-flash and red-eye reduction available with optional Speedlight • Night portrait: Auto, auto slow sync, auto slow sync with red-eye reduction; slow sync and slow sync with red-eye reduction available with optional Speedlight • Landscape, Sports: Fill-flash and red-eye reduction available with optional Speedlight • P, A modes: Fill flash, rear-curtain with slow sync, slow sync, slow sync

	with red-eye reduction, red-eye reduction • S, M modes: Fill flash, rear-curtain sync, red-eye reduction
Flash compensation	• -3 to +1 EV • 1/3 steps
Nikon Creative Lighting system	Supported with built-in flash, SB-400, SB-800, and SB-600; Advanced Wireless Lighting supported with SB-800 or SU-800 as Commander.
Shooting modes	• Single frame shooting (S) mode • Continuous shooting (C) mode: approx. 3.0 frames per second (slower with NR) • Self-timer/remote control mode.
Continuous buffer	• JPEG: Limited only by storage • RAW: Approx. 9 frames (shooting continues at a slower rate)
Self-timer	• 2, 5, 10 or 20 sec
Remote control	• Remote Control ML-L3 (optional, Infrared) • Camera Control Pro software (optional)
Text input	Up to 36 characters of alphanumeric text input is available with LCD monitor and multi-selector; stored in EXIF header
Playback functions	• Full frame • Thumbnail (4 or 9 segments) • Zoom (magnified) • Slideshow • Histogram indication • Shooting data • Highlight point display • Auto image rotation
Orientation sensor	Yes
Storage	• Secure Digital / Secure Digital HC • FAT / FAT32 • Supports firmware update via SD card
Video output	NTSC or PAL selectable
Connectivity	• USB 2.0 (Hi-Speed) • Mass storage / PTP selectable • Video out • DC-IN (optional AC adapter and adapter connector)
Languages	Chinese (Simplified and Traditional), Dutch, English, Finnish, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Spanish, Swedish
Power	Lithium-Ion battery pack EN-EL9 (7.4 V, 1000 mAh)
Working environment	• 0 to 40°C (32 to 104°F) • Less than 85% humidity
Dimensions	126 x 94 x 64 mm (5.0 x 3.7 x 2.5 in)
Weight (no batt)	471 g (1.0 lb)
Weight (inc. batt)	522 g (1.2 lb)
Supplied accessories	Rechargeable Li-ion Battery EN-EL9, Quick Charger MH-23, USB Cable UC-E4, PictureProject, Rubber Eyecup DK-16, Camera Strap, Body Cap BF-1A, Eyepiece Cap DK-5, Accessory Shoe Cap BS-1
Optional accessories	Wireless Remote Control ML-L3, Capture NX, Camera Control Pro, AC Adapter Connector EP-5, AC Adapter EH-5, Video Cable EG-D100, Semi Soft-Case CF-DC1, Speedlight SB-800/600/T041/R1C1

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