



At the heart of the image

D300



Defy Limitations — the ultimate in Nikon DX-format performance.

- All-new 12.3 effective megapixel Nikon DX-format CMOS image sensor with integrated A/D converter and the increased bit precision of selectable 14-bit NEF (RAW) output
- Incorporates Nikon's original EXPEED digital image processing concept
- Nikon's original Scene Recognition System greatly improves autofocus, auto exposure and auto white balance performance
- New 51-point autofocus system features 15 cross-type sensors that maximize the potential of lenses with apertures as small as f/5.6
- Viewfinder with 100% frame coverage and large 0.94 magnification
- Rapid 8 fps^{*1} or 6 fps^{*2} continuous shooting for up to 100 shots^{*3*4}
- New Picture Control System for image finishing optimized to match individual preferences
- Liveview: Tripod shooting mode with Contrast AF and Hand-held shooting mode
- Self-cleaning Sensor Unit for dust-reduction
- Quick response of 0.13 sec. power-up and 45 ms shutter release time lag^{*5}
- Magnesium alloy body for light weight and rugged durability
- 3-inch LCD with 920,000-dot resolution and a 170° ultra-wide viewing angle
- Active D-Lighting optimizes tone reproduction in both shadows and highlights

More information available Fall 2007.

^{*1} When using AC Adaptor EH-5a/EH-5 or Multi-Power Battery Pack MB-D10 with batteries other than Rechargeable Li-ion Battery EN-EL3e

^{*2} When using Rechargeable Li-ion Battery EN-EL3e

^{*3} NORMAL - LARGE image setting, using a SanDisk Extreme IV CompactFlash 1GB card

^{*4} When shooting in Continuous-servo AF (C), Shutter-Priority Auto [S] or Manual [M] exposure modes, at a shutter speed of 1/250 s or faster with other settings at default

^{*5} When shooting in JPEG, TIFF or 12-bit NEF (RAW) formats

EXPEED

90th
Anniversary

Nikon Digital SLR Camera D300 Specifications

Type of Camera	Single-lens reflex digital camera
Effective Pixels	12.3 million
Image Sensor	CMOS sensor, 23.6 x 15.8 mm; total pixels: 13.1 million; Nikon DX format
Image Size (pixels)	4,288 x 2,848 [L], 3,216 x 2,136 [M], 2,144 x 1,424 [S]
Dust-reduction System	Clean image sensor, image dust-off data acquisition (Capture NX required)
Sensitivity	ISO 200 to 3200 in steps of 1/3, 1/2 or 1 EV with additional settings of approx. 0.3, 0.5, 0.7 and 1 EV (ISO 100 equivalent) under ISO 200 and approx. 0.3, 0.5, 0.7 and 1 EV (ISO 6400 equivalent) over ISO 3200
File System	Compliant with DCF 2.0, DPOF and Exif 2.21
Storage System	NEF 12-bit or 14-bit (uncompressed, lossless compressed or compressed RAW) TIFF (RGB) JPEG: JPEG baseline-compliant
Storage Media	CompactFlash (CF) Card (Type I and II, UDMA compliant), Microdrive
Release Modes	1) Single frame [S] mode 2) Continuous low speed [CL] mode: 1 to 7 ¹ frames per second 3) Continuous high-speed [CH] mode: 8 frames per second ¹ , 6 frames per second ² 4) Liveview [LV] mode 5) Self-timer [Ⓢ] mode 6) Mirror-up [Mup] mode *1. When using AC Adaptor EH-5a/EH-5 or Multi-Power Battery Pack MB-D10 with batteries other than Rechargeable Li-ion Battery EN-EL3e *2. When using Rechargeable Li-ion Battery EN-EL3e (When shooting in Continuous-servo AF (C), Shutter-Priority Auto [S] or Manual [M] exposure modes, at a shutter speed of 1/250 s or faster with other settings at default)
White Balance	Auto (TTL white balance with 1,005-pixel RGB sensor), seven manual modes with fine-tuning, color temperature setting, white balance bracketing possible (2 to 9 frames in increments 1-3)
Liveview	Hand-held shooting mode, Tripod shooting mode
LCD Monitor	3-in., approx. 920,000-dot (VGA), 170-degree wide viewing angle, 100% frame coverage, low-temperature polysilicon TFT LCD with brightness adjustment
Playback Function	1) Full frame 2) Thumbnail (4 or 9 segments) 3) Zoom 4) Slideshow 5) RGB histogram indication 6) Shooting data 7) Highlight point display 8) Auto image rotation
Delete Function	Card format. All photographs delete. Selected photographs delete
Video Output	NTSC or PAL; simultaneous playback from both the video output and on the LCD monitor available
HDMI Output	Supports HDMI version 1.3a; Type A connector is provided as HDMI output terminal; simultaneous playback from both the HDMI output terminal and on the LCD monitor not available
Interface	Hi-Speed USB
Text Input	Up to 36 characters of alphanumeric text input available with LCD monitor and multi-selector; stored in Exif header
Lens Mount	Nikon F Mount with AF coupling and AF contacts
Compatible Lenses	1) DX AF Nikkor: All functions possible 2) D-/G-type AF Nikkor (excluding IX Nikkor lenses): All functions possible (excluding PC Micro-Nikkor) 3) AF Nikkor other than D-/G-type (excluding lenses for F3AF): All functions except 3D-Color Matrix Metering II possible 4) AI-P Nikkor: All functions except Autofocus, 3D-Color Matrix Metering II possible 5) Non-CPU AI Nikkor: Can be used in exposure modes A and M; electronic range finder can be used if maximum aperture is f/5.6 or faster; Color Matrix Metering and aperture value display supported if user provides lens data
Picture Angle	Equivalent in 35mm [135] format is approx. 1.5 times lens focal length
Viewfinder	SLR-type with fixed eye-level pentaprism; built-in diopter adjustment (-2.0 to +1.0 m ⁻¹)
Eye point	19.5 mm (-1.0 m ⁻¹)
Focusing Screen	Type-B BriteView Clear Matte screen Mark II with superimposed focus brackets and On-Demand grid lines
Viewfinder Frame Coverage	Approx. 100% (vertical and horizontal)
Viewfinder Magnification	Approx. 0.94x with 50mm lens at infinity; -1.0 m ⁻¹
Autofocus	-TTL phase detection, 51 focus points (15 cross-type sensors) by Nikon Multi-CAM 3500DX autofocus module; Detection -1 to +19 EV (ISO 100 at 20°C/68°F); AF fine adjustment possible -Focal plane contrast [in Liveview (Tripod) mode]
Lens Servo	Single-servo AF (S); continuous-servo AF (C); manual (M); predictive focus tracking automatically activated according to subject status in continuous-servo AF
Focus Point	Single AF point can be selected from 51 or 11 focus points Liveview (Tripod mode): Contrast AF on a desired point within entire frame
AF Area Mode	1) Single point AF 2) Dynamic Area AF [9 points, 21 points, 51 points, 51 points (3D-tracking)] 3) Automatic-area AF

Focus Lock	Focus can be locked by pressing shutter-release button halfway (single-servo AF) or by pressing AE-L/AF-L button
Exposure Metering System	TTL full-aperture exposure metering using 1005-pixel RGB sensor 1) 3D Color Matrix Metering II (type G and D lenses); color matrix metering II (other CPU lenses); color matrix metering (non-CPU lenses if user provides lens data; metering performed) 2) Center-weighted: Weight of 75% given to 6, 8, 10, or 13 mm dia. circle in center of frame or weighting based on average of entire frame (8 mm circle when non-CPU lens is used) 3) Spot: Meters approx. 3 mm dia. circle (about 2.0% of frame) centered on selected focus point (on center focus point when non-CPU lens is used)
Exposure Metering Range	1) 0 to 20 EV (3D Color Matrix or center-weighted metering) 2) 2 to 20 EV (spot metering) (ISO 100, f/1.4 lens, 20°C)
Exposure Meter Coupling	Combined CPU and AI
Exposure Modes	1) Programmed Auto [P] with flexible program 2) Shutter-Priority Auto [S] 3) Aperture Priority Auto [A] 4) Manual [M]
Exposure Compensation	±5 EV in increments of 1/3, 1/2 or 1 EV
Auto Exposure Lock	Detected exposure value locked by pressing AE-L/AF-L button
Auto Exposure Bracketing	Exposure and/or flash bracketing (2 to 9 exposures in increments of 1/3, 1/2, 2/3 or 1 EV)
Picture Control System	Four setting options: Standard, Neutral, Vivid, Monochrome; each option can be adjusted
Shutter	Electronically-controlled vertical-travel focal plane shutter, 1/8,000 to 30 s in steps of 1/3, 1/2 or 1 EV, Bulb
Sync Contact	X=1/250 s; flash synchronization at up to 1/320 s (FP) adjustable with Built-in Speedlight or optional Speedlight (will reduce GN)
Flash Control	1) TTL: TTL flash control by 1,005-pixel RGB sensor Built-in Speedlight, SB-800, SB-600 or SB-400: i-TTL balanced fill-flash and standard i-TTL flash 2) AA (Auto Aperture-type) flash: Available with SB-800 used with CPU lens 3) Non-TTL Auto: Available with Speedlights such as SB-800, 28, 27, and 22S 4) Range-priority manual flash; available with SB-800
Flash Sync Mode	1) Front-curtain Sync (normal) 2) Red-eye Reduction 3) Red-eye Reduction with Slow Sync 4) Slow Sync 5) Rear-curtain Sync
Built-in Speedlight	Manual pop-up with button release
Guide number	(ISO 200, m): approx. 17 (manual 18) (ISO 100 equivalent, m): approx. 12 (manual 13)
Flash Compensation	-3 to +1 EV in increments of 1/3, 1/2 or 1 EV
Accessory Shoe	ISO 518 Standard hot-shoe contact with safety lock provided
Sync Terminal	ISO 519 standard terminal
Creative Lighting System	With Speedlights such as SB-800, SB-600, SB-400, SB-R200, supports Advanced Wireless Lighting, Auto FP High-Speed Sync, Flash Color Information Communication, modeling flash and FV lock
Self-timer	2 to 20 seconds duration
Depth of Field Preview	When CPU lens is attached, lens aperture can be stopped down to value selected by user (A and M mode) or value selected by camera (P and S mode)
Remote Control	Via 10-pin terminal or Wireless Transmitter WT-4 (optional)
GPS	NMEA 0183 (Ver. 2.01 and 3.01) interface standard supported with 9-pin D-sub cable (optional) and GPS Cable MC-35 (optional)
Supported Languages	Chinese (Simplified and Traditional), Dutch, English, Finnish, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Spanish, Swedish
Power Source	One Rechargeable Li-ion Battery EN-EL3e, Multi-Power Battery Pack MB-D10 (optional) with one Rechargeable Li-ion Battery EN-EL4a, EN-EL4 or EN-EL3e or eight R6/AA-size alkaline (LR6), Ni-MH (HR6), lithium (FR6) batteries, or nickel-manganese ZR6 batteries, AC Adapter EH-5a (optional)
Tripod Socket	1/4 in. (ISO 1222)
Custom Settings	48 settings available
Dimensions (W x H x D)	Approx. 147 x 114 x 74 mm (5.8 x 4.5 x 2.9 in.)
Weight	Approx. 825 g (1.82 lbs.) without battery, memory card, body cap, or monitor cover
Operating Environment	Temperature: 0-40°C/32-104°F, Humidity: under 85% (no condensation)
Supplied Accessories	Rechargeable Li-ion Battery EN-EL3e, Quick Charger MH-18a, USB Cable UC-E4, Video Cable EG-D100, Strap AN-D300, LCD monitor cover BM-8, Body cap, Eyepiece Cap DK-5, Rubber Eyecup DK-23, Software Suite CD-ROM
Main Optional Accessories	Multi-Power Battery Pack MB-D10, Wireless Transmitter WT-4, Magnifying Eyepiece DK-21M, AC Adapter EH-5a, Capture NX Software, Camera Control Pro 2

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WARNING

TO ENSURE CORRECT USAGE, READ MANUALS CAREFULLY BEFORE USING YOUR EQUIPMENT. SOME DOCUMENTATION IS SUPPLIED ON CD-ROM ONLY.



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