



At the heart of the image

D3



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

- Nikon's original FX-format CMOS image sensor with 36.0 (H) x 23.9 (V) mm image size; 12.1 effective megapixels
- Compatible with three image-sensor formats – FX format (36 x 24), 5:4 (30 x 24) and DX format (24 x 16)
- Sensitivity range ISO 200 to 6400 at normal setting for exceptionally high-quality images; can be set to ISO-equivalent 25,600
- Incorporates Nikon's original EXPEED digital image processing concept
- Nikon's original Scene Recognition System, utilizing the 1,005-pixel RGB sensor, 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
- High-speed continuous shooting at approx. 9 frames per second [FX format (36 x 24)/5:4 (30 x 24)]/approx. 11 fps [DX format (24 x 16)] *1
- Newly employed Picture Control System enables creation of desired picture with preferred tones
- Accurate focal-plane contrast AF*2 available with built-in Liveview mode
- Wireless Transmitter WT-4*3 (optional) realizes wireless connection of cameras with a PC, enabling thumbnail display of images taken with up to five of them, and downloading of images selected
- CF card double slot accepts two CF cards
- Quick response with approx. 0.12 sec. startup time and 37 ms shutter-release time lag
- Viewfinder with approx. 100% frame coverage and approx. 0.7x magnification in FX format
- High-definition (920,000 dots), 170° viewing angle, 3-inch VGA LCD monitor with tempered glass
- Active D-Lighting optimizes tone reproduction in both shadows and highlights

More information available Fall 2007.

*1 With Continuous-servo AF, S or M exposure mode, shutter speed 1/250 sec. or faster; other settings are set at "Default".

*2 When Tripod mode is selected.

*3 Specifications differ depending on country or area.

EXPEED

90th
Anniversary

Nikon Digital SLR Camera D3 Specifications

Type of Camera	Single-lens reflex digital camera																
Effective Pixels	12.1 million																
Image Sensor	CMOS sensor, 36.0 x 23.9 mm; total pixels: 12.87 million; Nikon FX format																
Image Size (pixels)	<table border="1"> <thead> <tr> <th>Image area</th> <th>L</th> <th>M</th> <th>S</th> </tr> </thead> <tbody> <tr> <td>FX format (36 x 24)</td> <td>4,256 x 2,832</td> <td>3,184 x 2,120</td> <td>2,128 x 1,416</td> </tr> <tr> <td>5:4 (30 x 24)</td> <td>3,552 x 2,832</td> <td>2,656 x 2,120</td> <td>1,776 x 1,416</td> </tr> <tr> <td>DX format (24 x 16)</td> <td>2,784 x 1,848</td> <td>2,080 x 1,384</td> <td>1,392 x 920</td> </tr> </tbody> </table>	Image area	L	M	S	FX format (36 x 24)	4,256 x 2,832	3,184 x 2,120	2,128 x 1,416	5:4 (30 x 24)	3,552 x 2,832	2,656 x 2,120	1,776 x 1,416	DX format (24 x 16)	2,784 x 1,848	2,080 x 1,384	1,392 x 920
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DX format (24 x 16)	2,784 x 1,848	2,080 x 1,384	1,392 x 920														
Sensitivity	ISO 200 to 6,400 in steps of 1/3, 1/2, or 1 EV; sensitivity decreases approx. 0.3, 0.5, 0.7, or 1 (ISO 100 equivalent) EV below ISO 200, and increases approx. 0.3, 0.5, 0.7, 1 (ISO 12,800 equivalent), or 2 (ISO 25,600 equivalent) EV over ISO 6,400																
File System	Compliant with DCF 2.0, DPOF and Exif 2.21																
Storage System	Compressed 12/14-bit NEF (RAW, Lossless compressed): approx. 60-80% Compressed 12/14-bit NEF (RAW, Compressed): approx. 45-60% JPEG: JPEG-baseline-compliant; can be selected from Size priority and Optimal quality																
Storage Media	CompactFlash (Type I/II, compliant with UDMA); Microdrives																
Release Modes	1) Single-frame [S] mode, 2) Continuous low-speed [CL] mode: 1-9 frames per second*, 3) Continuous high-speed [CH] mode: 9 fps (9-11 fps with DX format)*, 4) Liveview [LV] mode, 5) Self-timer [S] mode, 6) Mirror-up [Mup] mode *With Continuous-servo AF, S or M exposure mode, shutter speed 1/250 s or faster; other settings are set at "Default".																
White Balance	<ul style="list-style-type: none"> Auto (TTL white balance with main image sensor and 1,005-pixel RGB sensor); Seven manual modes can be preset with fine-tuning; color temperature setting; white balance bracketing: 2 to 9 exposures in increments of 1, 2 or 3 																
Liveview	Handheld mode: TTL phase-difference AF with 51 focus areas (15 cross-type sensors) Tripod mode: focal-plane contrast AF on a desired point within a specific area																
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) Histogram indication, 6) Shooting data, 7) Highlight point display, 8) Auto image rotation																
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																
Lens Mount	Nikon F mount with AF coupling and AF contacts																
Compatible Lenses*1	1) Type G or D AF NIKKOR: All functions supported 2) DX AF NIKKOR: All functions supported except FX-format (36x24)/5:4 (30x24) image size 3) AF NIKKOR other than type G or D*: All functions supported except 3D Color Matrix Metering II 4) AI-P NIKKOR: All functions supported except autofocus and 3D Color Matrix Metering II 5) Non-CPU AI NIKKOR: Can be used in exposure modes A and M; electronic rangefinder 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 *1. IX NIKKOR lenses cannot be used *2. Excluding lenses for F3AF																
Picture Angle	Equivalent to angle produced by lens focal length (1.5 times when DX format is selected)																
Viewfinder	SLR-type with fixed eye-level pentaprism; built-in diopter adjustment (-3 to +1 m ⁻¹)																
Eye point	18 mm (-1.0 m ⁻¹)																
Focusing Screen	Type B BriteView Clear Matte VI screen																
Viewfinder Frame Coverage	Approx. 100% (vertical/horizontal)																
Viewfinder Magnification	Approx. 0.7x (50mm f/1.4 lens at infinity; -1.0 m ⁻¹)																
Reflex Mirror	Quick-return type																
Lens Aperture	Instant-return type, with depth-of-field preview button																
Autofocus	<ul style="list-style-type: none"> TTL phase detection, 51 focus points (15 cross-type sensors) by Nikon Multi-CAM 3500FX 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] 																

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Lens Servo	1) Autofocus: Single-servo AF (S); continuous-servo AF (C); focus tracking automatically activated according to subject status, 2) Manual focus (M) with electronic rangefinder
Focus Point	Single AF point can be selected from 51 or 11 focus points
AF-Area Mode	1) Single-point AF, 2) Dynamic AF [number of AF areas: 9, 21, 51 (3D-tracking)], 3) Automatic-area AF
Focus Lock	Focus can be locked by pressing AE-L/AF-L button or by pressing shutter-release button halfway (single-point AF in AF-S)
Exposure Metering System	TTL full-aperture exposure metering using 1,005-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) 2) Center-weighted: Weight of 75% given to 8-, 15- or 20-mm circle in center of frame, or weighting based on average of entire frame 3) Spot: Meters 4-mm circle (about 1.5% of frame) centered on selected focus area (on center focus area when non-CPU lens is used)
Metering Range	1) 0 to 20 EV (Matrix or center-weighted metering), 2) 2 to 20 EV (Spot metering) (ISO 100 equivalent, f/1.4 lens, at 20°C/68°F)
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
Exposure Lock	Exposure locked at detected value with AE-L/AF-L button
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 1/250 s
Flash Control	1) TTL flash control with 1,005-pixel RGB sensor; i-TTL balanced fill-flash and standard i-TTL fill-flash available with SB-800, 600 or 400 2) Auto aperture (AA): Available with SB-800 and CPU lens 3) Non-TTL auto (A): Available with SB-800, 28, 27 or 22s 4) Range-priority manual (GN): Available with SB-800
Flash Sync Modes	1) Front-curtain sync (normal), 2) Slow sync, 3) Rear-curtain sync, 4) Red-eye reduction, 5) Red-eye reduction with slow sync
Accessory Shoe	Standard ISO 518 hot-shoe contact with safety lock
Sync Terminal	ISO 519 standard terminal
Creative Lighting System	With Speedlights such as SB-800, SB-600, SB-R200, supports Advanced Wireless Lighting, Auto FP High-Speed Sync, Flash Color Information Communication, modeling flash and FV lock
Self-timer	Electronically controlled timer with duration of 2, 3, 10 or 20 s
Depth-of-field	When CPU lens is attached, lens aperture can be stopped down to value selected by user
Preview Button	(A and M modes) or value selected by camera (P and S modes)
10-pin Terminal	1) GPS: NMEA 0183 (Ver. 2.01 and 3.01) interface standard supported with 9-pin D-sub cable and GPS Cable MC-35 (optional) 2) Remote control: via 10-pin terminal
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-EL4a/EL4, Quick Charger MH-22, AC Adapter EH-6 (optional)
Tripod Socket	1/4 in. (ISO 1222)
Dimensions (W x H x D)	Approx. 159.5 x 157 x 87.5 mm (6.3 x 6.2 x 3.4 in.)
Weight	Approx. 1,240 g (2.7 lb.) without battery, memory card, body cap or accessory shoe cover
Operating Environment	Temperature: 0-40°C/32-104°F; Humidity: under 85% (no condensation)
Supplied Accessories*	Rechargeable Li-ion Battery EN-EL4a, Quick Charger MH-22, USB Cable UC-E4, Audio Video Cable EG-D2, Camera Strap AN-D3, Body Cap BF-1A, Accessory Shoe Cap BS-2, Eyepiece DK-17, Battery Chamber Cover BL-4, USB Cable Clip, Software Suite CD-ROM *Supplied accessories may differ depending on country or area
Main Optional Accessories	Wireless Transmitter WT-4, Magnifying Eyepiece DK-17M, AC Adapter EH-6, Capture NX Software, Camera Control Pro 2 Software, Image Authentication Software

Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer. August 2007 © 2007 NIKON CORPORATION

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

