Nikon Digital SLR Camera Df Specifications

	Type
Type	Single-lens reflex digital camera
Lens mount	Nikon F mount (with AF coupling and AF contacts)
Effective angle of view	Nikon FX format
	Effective pixels
Effective pixels	16.2 million
	Image sensor
Image sensor	36.0 x 23.9 mm CMOS sensor
Total pixels	16.6 million
Dust-reduction system	Image sensor cleaning, Image Dust Off reference data (optional Capture NX 2 software required)
	Storage
Image size (pixels)	• FX format (36x24): 4,928 x 3,280 [L], 3,696 x 2,456 [M], 2,464 x 1,640 [S] • DX format (24x16): 3,200 x 2,128 [L], 2,400 x 1,592 [M], 1,600 x 1,064 [S]
File format	• NEF (RAW): 12 or 14 bit, lossless compressed, compressed, or uncompressed • TIFF (RGB) • JPEG: JPEG-Baseline compliant with fine (approx. 1:4), normal (approx. 1:8) or basic (approx. 1:16) compression (Size priority); Optimal quality compression available • NEF (RAW)+JPEG: Single photograph recorded in both NEF (RAW) and JPEG formats
Picture Control System	Standard, Neutral, Vivid, Monochrome, Portrait, Landscape; selected Picture Control can be modified; storage for custom Picture Controls
Media	SD (Secure Digital) and UHS-I compliant SDHC and SDXC memory cards
File system	DCF (Design Rule for Camera File System) 2.0, DPOF (Digital Print Order Format), Exif (Exchangeable Image File Format for Digital Still Cameras) 2.3, PictBridge
	Viewfinder
Viewfinder	Eye-level pentaprism single-lens reflex viewfinder
Frame coverage	• FX (36x24): Approx. 100% horizontal and 100% vertical • DX (24x16): Approx. 97% horizontal and 97% vertical
Magnification	Approx. 0.7x (50 mm f/1.4 lens at infinity, -1.0 m^{-1})
Eyepoint	15 mm (-1.0 m^{-1}; from center surface of viewfinder eyepiece lens)

Diopter adjustment	-3 to +1 m^{-1}
Focusing screen	Type B BriteView Clear Matte Mark VIII screen with AF area brackets (framing grid can be displayed)
Reflex mirror	Quick return
Depth-of-field preview	Pressing Pv button stops lens aperture down to value selected by user (exposure modes A and M) or by camera (exposure modes P and S)
Lens aperture	Instant return, electronically controlled
	Lens
Compatible lenses	Compatible with AF NIKKOR lenses, including type G, E, and D lenses (some restrictions apply to PC lenses) and DX lenses (using DX 24 x 16 1.5x image area), AI-P NIKKOR lenses and non-CPU lenses. IX NIKKOR lenses and lenses for the F3AF cannot be used. The electronic rangefinder can be used with lenses that have a maximum aperture of f/5.6 or faster (the electronic rangefinder supports the center 7 focus points with lenses that have a maximum aperture of f/8 or faster and the center 33 focus points with lenses that have a maximum aperture of f/7.1 or faster)
	Shutter
Type	Electronically controlled vertical-travel focal-plane shutter
Speed	1/4,000 to 4 s in steps of 1 EV (1/4,000 s to 30 s in steps of 1/3 EV with main command dial), X200 (with shutter-speed dial only), bulb, time
Flash sync speed	X=1/200 s; synchronizes with shutter at 1/250 s or slower
	Release
Release modes	S (single frame), CL (continuous low speed), CH (continuous high speed), Q (quiet shutter-release), ⏲(self-timer), MUP (mirror up)
Frame advance rate	1 to 5 fps (CL) or 5.5 fps (CH)
Self-timer	2 s, 5 s, 10 s, 20 s; 1 to 9 exposures at intervals of 0.5, 1, 2 or 3 s
	Exposure
Metering	TTL exposure metering using 2,016-pixel RGB sensor
Metering method	• Matrix: 3D color matrix metering II (type G, E and D lenses); color matrix metering II (other CPU lenses); color matrix metering available with non-CPU lenses if user provides lens data • Center-weighted: Weight of 75% given to 12-mm circle in center of frame; diameter of circle can be changed to 8, 15 or 20 mm, or weighting can be based on average of entire frame (non-CPU lenses use 12-mm circle) • Spot: Meters 4-mm circle (about 1.5% of frame) centered on selected focus point (on center focus point when non-CPU lens is used)
Range (ISO 100, f/1.4	• Matrix or center-weighted metering: 0 to 20 EV

lens, 20°C/68°F)	• Spot metering: 2 to 20 EV
Exposure meter coupling	Combined CPU and AI (collapsible metering coupling lever)
Exposure modes	Programmed auto with flexible program (P); shutter-priority auto (S); aperture-priority auto (A); manual (M)
Exposure compensation	-3 to +3 EV in increments of 1/3 EV
Exposure bracketing	2 to 5 frames in steps of 1/3, 2/3, 1, 2 or 3 EV
Flash bracketing	2 to 5 frames in steps of 1/3, 2/3, 1, 2 or 3 EV
Exposure lock	Luminosity locked at detected value with AE-L/AF-L button
ISO sensitivity (Recommended Exposure Index)	ISO 100 to 12800 in steps of 1/3 EV; can also be set to approx. 0.3, 0.7 or 1 EV (ISO 50 equivalent) below ISO 100 or to approx. 0.3, 0.7, 1, 2, 3 or 4 EV (ISO 204800 equivalent) above ISO 12800; auto ISO sensitivity control available
Active D-Lighting	Can be selected from Auto, Extra high +2/+1, High, Normal, Low, or Off
ADL bracketing	2 frames using selected value for one frame or 3 to 5 frames using preset values for all frames
	Focus
Autofocus	Nikon Multi-CAM 4800 autofocus sensor module with TTL phase detection, fine-tuning, and 39 focus points (including 9 cross-type sensors; the center 33 points are available at apertures slower than f/5.6 and faster than f/8, while the center 7 focus points are available at f/8)
Detection range	-1 to +19 EV (ISO 100, 20°C/68°F)
Lens servo	• Autofocus (AF): Single-servo AF (AF-S); continuous-servo AF (AF-C); predictive focus tracking activated automatically according to subject status • Manual focus (M): Electronic rangefinder can be used
Focus point	Can be selected from 39 or 11 focus points
AF-area modes	Single-point AF, 9-, 21- or 39-point dynamic-area AF, 3D-tracking, auto-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
	Flash
Flash control	TTL: i-TTL flash control using 2,016-pixel RGB sensor is available with SB-910, SB-900, SB-800, SB-700, SB-600, SB-400 or SB-300; i-TTL balanced fill-flash for digital SLR is used with matrix and center-weighted metering, standard i-TTL flash for digital SLR with spot metering
Flash modes	Front-curtain sync, slow sync, rear-curtain sync, red-eye reduction, red-eye reduction with slow sync, slow rear-curtain sync, Auto FP High-Speed Sync

	supported
Flash compensation	-3 to +1 EV in increments of 1/3
Flash-ready indicator	Lights when optional flash unit is fully charged; flashes after flash is fired at full output
Accessory shoe	ISO 518 hot-shoe with sync and data contacts and safety lock
Nikon Creative Lighting System (CLS)	Advanced Wireless Lighting supported with SB-910, SB-900, SB-800 or SB-700 as a master flash and SB-600 or SB-R200 as remotes, or SU-800 as commander; Auto FP High-Speed Sync and modeling illumination supported with all CLS-compatible flash units except SB-400 and SB-300; Flash Color Information Communication and FV lock supported with all CLS-compatible flash units
Sync terminal	ISO 519 sync terminal with locking thread
	White balance
White balance	Auto (2 types), incandescent, fluorescent (7 types), direct sunlight, flash, cloudy, shade, preset manual (up to 4 values can be stored, spot white balance measurement available during live view), choose color temperature (2,500 K to 10,000 K); all with fine-tuning
White balance bracketing	2 to 3 frames in steps of 1, 2 or 3
	Live View
Lens servo	• Autofocus (AF): Single-servo AF (AF-S); full-time servo AF (AF-F) • Manual focus (M)
AF-area modes	Face-priority AF, wide-area AF, normal-area AF, subject-tracking AF
Autofocus	Contrast-detect AF anywhere in frame (camera selects focus point automatically when face-priority AF or subject-tracking AF is selected)
	Monitor
Monitor	8-cm (3.2-in.), approx. 921k-dot (VGA), low-temperature polysilicon TFT LCD with approx. 170° viewing angle, approx. 100% frame coverage, and brightness control
	Playback
Playback	Full-frame and thumbnail (4, 9 or 72 images or calendar) playback with playback zoom, photo slide shows, histogram display, highlights, photo information, location data display, and auto image rotation
	Interface
USB	Hi-Speed USB
HDMI output	Type C mini-pin HDMI connector
Accessory terminal	• Wireless remote controllers: WR-R10 and WR-1 (available separately) • Remote cord: MC-DC2 (available separately)

- GPS units: GP-1/GP-1A (available separately)

	Supported languages
Supported languages	Arabic, Chinese (Simplified and Traditional), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hindi, Hungarian, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (Portugal and Brazil), Romanian, Russian, Spanish, Swedish, Thai, Turkish, Ukrainian
	Power source
Battery	One EN-EL14a Rechargeable Li-ion Battery
AC adapter	EH-5b AC Adapter; requires EP-5A Power Connector (available separately)
	Tripod socket
Tripod socket	1/4 in. (ISO 1222)
	Dimensions / weight
Dimensions (W x H x D)	Approx. 143.5 x 110 x 66.5 mm/ 5.6 x 4.3 x 2.6 in.
Weight	Approx. 765 g/1 lb 11 oz with battery and memory card but without body cap; approx. 710 g/1 lb 9 oz (camera body only)
	Operating environment
Operating environment	Temperature: 0 to 40°C/32 to 104°F; humidity: 85% or less (no condensation)
	Accessories
Supplied accessories (may differ by country or area)	EN-EL14a Rechargeable Li-ion Battery, MH-24 Battery Charger, DK-26 Eyepiece Cap, String for eyepiece cap, UC-E6 USB Cable, AN-DC9 Camera Strap, BF-1B Body Cap, BS-1 Accessory Shoe Cover, ViewNX 2 CD-ROM

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Memory card capacity

The following table shows the approximate number of pictures that can be stored on an 8 GB SanDisk Extreme Pro SDHC UHS-I card at different image quality, image size, and image area settings.

FX (36 x 24) image area*

Image quality	Image	File	No. of	Buffer

	size	size[1]	images[1]	capacity[2]
NEF (RAW), Lossless compressed, 12-bit	-	15.4 MB	279	37
NEF (RAW), Lossless compressed, 14-bit	-	19.4 MB	216	29
NEF (RAW), Compressed, 12-bit	-	13.9 MB	377	47
NEF (RAW), Compressed, 14-bit	-	17.0 MB	315	38
NEF (RAW), Uncompressed, 12-bit	-	26.5 MB	279	30
NEF (RAW), Uncompressed, 14-bit	-	34.3 MB	216	25
TIFF (RGB)	Large	49.1 MB	151	21
	Medium	28.3 MB	265	25
	Small	13.2 MB	566	36
JPEG fine[3]	Large	7.9 MB	729	100
	Medium	5.4 MB	1100	100
	Small	3.0 MB	2200	100
JPEG normal[3]	Large	4.5 MB	1400	100
	Medium	2.8 MB	2300	100
	Small	1.6 MB	4300	100
JPEG basic[3]	Large	2.2 MB	2800	100
	Medium	1.5 MB	4600	100
	Small	0.9 MB	8000	100

- *Includes images taken with non-DX lenses when On is selected for Auto DX crop.

DX (24 x 16) image area*

Image quality	Image size	File size[1]	No. of images[1]	Buffer capacity[2]
NEF (RAW), Lossless compressed, 12-bit	-	7.2 MB	618	100
NEF (RAW), Lossless compressed, 14-bit	-	8.9 MB	484	96
NEF (RAW), Compressed, 12-bit	-	6.6 MB	818	100
NEF (RAW), Compressed, 14-bit	-	7.9 MB	692	100
NEF (RAW), Uncompressed, 12-bit	-	12.0 MB	618	72
NEF (RAW), Uncompressed, 14-bit	-	15.3 MB	484	53
TIFF (RGB)	Large	21.5 MB	349	29
	Medium	12.6 MB	593	39
	Small	6.2 MB	1100	69
JPEG fine[3]	Large	3.7 MB	1500	100
	Medium	2.8 MB	2200	100
	Small	1.9 MB	3600	100

JPEG normal[3]	Large	2.3 MB	2900	100
	Medium	1.6 MB	4400	100
	Small	1.1 MB	7100	100
JPEG basic[3]	Large	1.2 MB	5700	100
	Medium	0.9 MB	8600	100
	Small	0.7 MB	12100	100

- *Includes images taken with DX lenses when On is selected for Auto DX crop.
- 1All figures are approximate. File size varies with scene recorded.
- 2Maximum number of exposures that can be stored in memory buffer at ISO 100. Drops if optimal quality is selected for JPEG compression, NEF (RAW) photos are taken with ISO sensitivity set to Hi 0.3 or higher, or long exposure noise reduction or auto distortion control is on.
- 3Figures assume JPEG compression is set to Size priority. Selecting optimal quality increases the file size of JPEG images; number of images and buffer capacity drop accordingly.

Approved memory cards

The following SD memory cards have been tested and approved for use in the camera.

	SD memory cards	**SDHC memory cards**[2]	**SDXC memory cards**[3]
SanDisk **Toshiba**	2 GB*[1]	4 GB, 8 GB, 16 GB, 32 GB	64 GB
Panasonic		4 GB, 6 GB, 8 GB, 12 GB, 16 GB, 24 GB, 32 GB	48 GB, 64 GB
Lexar Media		4 GB, 8 GB, 16 GB	
Platinum II **Professional**		4 GB, 8 GB, 16 GB, 32 GB	-
Full-HD Video	-	4 GB, 8 GB, 16 GB	