Nikon Digital SLR Camera D4 Specifications

Type of camera	Single-lens reflex digital camera
Lens mount	Nikon F mount (with AF coupling and AF contacts)
Effective pixels	16.2 million
Image sensor	36.0 × 23.9 mm CMOS sensor (Nikon FX format)
Total pixels	16.6 million
Dust-reduction system	Image sensor cleaning, Image Dust Off reference data (requires optional Capture NX 2 software)
Image size (pixels)	• FX format (36×24): 4,928 × 3,280 (L), 3,696 × 2,456 (M), 2,464 × 1,640 (S) • 1.2× (30×20): 4,096 × 2,720 (L), 3,072 × 2,040 (M), 2,048 × 1,360 (S) • DX format (24×16): 3,200 × 2,128 (L), 2,400 × 1,592 (M), 1,600 × 1,064 (S) • 5:4 (30×24): 4,096 × 3,280 (L), 3,072 × 2,456 (M), 2,048 × 1,640 (S) • FX-format photographs taken in movie live view (16:9): 4,928 × 2,768 (L), 3,696 × 2,072 (M), 2,464 × 1,384 (S) • DX-format photographs taken in movie live view (16:9): 3,200 × 1,792 (L), 2,400 × 1,344 (M), 1,600 × 896 (S) • FX-format photographs taken in movie live view (3:2): 4,928 × 3,280 (L), 3,696 × 2,456 (M), 2,464 × 1,640 (S) • DX-format photographs taken in movie live view (3:2): 3,200 × 2.128 (L), 2,400 × 1.592(M), 1,600 × 1,064 (S) A DX-based format is used for photographs taken using the DX (24×16) 1.5× image area; an FX-based format is used for all other photographs
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	Can be selected from Standard, Neutral, Vivid, Monochrome, Portrait, Landscape; selected Picture Control can be modified; storage for custom Picture Controls
Storage media	XQD and Type I CompactFlash memory cards (UDMA compliant)
Dual card slots	Either card can be used for primary or backup storage or for separate storage of NEF (RAW) and JPEG images; pictures can be copied between 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	Eye-level pentaprism single-lens reflex viewfinder
Frame coverage	• FX (36×24): Approx. 100% horizontal and 100% vertical • 1.2× (30×20): Approx. 97% horizontal and 97% vertical • DX (24×16): Approx. 97% horizontal and 97% vertical • 5:4 (30×24): Approx. 97% horizontal and 100% vertical
Magnification	Approx. 0.7× (50 mm f/1.4 lens at infinity, -1.0 m^{-1})
Eyepoint	18 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 and framing grid
Reflex mirror	Quick return
Depth-of-field preview	When Pv button is pressed, lens aperture is stopped down to value selected by user (A and M modes) or by camera (P and S modes)
Lens aperture	Instant return, electronically controlled
Compatible lenses	Compatible with AF NIKKOR lenses, including type G and D lenses (some restrictions apply to PC-NIKKOR lenses), DX lenses [using DX (24×16) image area], AI-P NIKKOR lenses, and non-CPU AI lenses (exposure modes A and M only); IX-NIKKOR lenses, lenses for the F3AF, and non-AI lenses 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 11 focus points with lenses that have a maximum aperture of f/8 or faster)
Shutter type	Electronically-controlled vertical-travel focal-plane shutter
Shutter speed	1/8,000 to 30 s in steps of 1/3, 1/2 or 1 EV, bulb, X250
Flash sync speed	X=1/250 s; synchronizes with shutter at 1/250 s or slower
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	Up to 10 fps (CL) or 10 to 11 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 RGB sensor with approx. 91K (91,000) pixels
Metering method	• Matrix: 3D color matrix metering III (type G and D lenses); color matrix metering III (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 or average of entire frame) • 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)
Metering range (ISO 100, f/1.4 lens, 20°C/68°F)	• Matrix or center-weighted metering: -1 to 20 EV • Spot metering: 2 to 20 EV
Exposure meter coupling	Combined CPU and AI
Exposure modes	Programmed auto with flexible program (P); shutter-priority auto (S); aperture-priority auto (A); manual (M)
Exposure compensation	-5 to +5 EV in increments of 1/3, 1/2 or 1 EV
Exposure bracketing	2 to 9 frames in steps of 1/3, 1/2, 2/3 or 1 EV
Exposure lock	Luminosity locked at detected value with the center of the sub-selector
ISO sensitivity (Recommended Exposure Index)	ISO 100 to 12800 in steps of 1/3, 1/2 or 1 EV; can also be set to approx. 0.3, 0.5, 0.7 or 1 EV (ISO 50 equivalent) below ISO 100 or to approx. 0.3, 0.5, 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

Autofocus	Nikon Advanced Multi-CAM 3500FX autofocus sensor module with TTL phase detection, fine-tuning, 51 focus points (including 15 cross-type sensors; f/8 supported by 11 sensors)
Detection range	-2 to +19 EV (ISO 100, 20°C/68°F)
Lens servo	• Autofocus (AF): Single-servo autofocus (AF-S); continuous-servo autofocus (AF-C); predictive focus tracking automatically activated according to subject status • Manual focus (M): Electronic rangefinder can be used
Focus point	Can be selected from 51 or 11 focus points
AF-area modes	Single-point AF, 9-, 21- or 51-point dynamic-area AF, 3D-tracking, auto-area AF
Focus lock	Focus can be locked by pressing shutter-release button halfway (single-servo autofocus) or by pressing the center of the sub-selector
Flash control	TTL: i-TTL flash control using RGB sensor with approx. 91K (91,000) pixels is available with SB-910, SB-900, SB-800, SB-700, SB-600 or SB-400; 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, 1/2 or 1 EV
Flash bracketing	2 to 9 frames in steps of 1/3, 1/2, 2/3 or 1 EV
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; 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	Auto (2 types), incandescent, fluorescent (7 types), direct sunlight, flash, cloudy, shade, preset manual (up to 4 values can be stored), choose color temperature (2,500 K to 10,000 K); all with fine-tuning
White balance bracketing	2 to 9 frames in steps of 1, 2 or 3
Live view modes	Live view photography (quiet or silent), movie live view
Live view lens servo	• Autofocus (AF): Single-servo autofocus (AF-S); full-time servo autofocus (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)
Movie metering	TTL exposure metering using main image sensor
Frame size (pixels) and frame rate	• 1,920 × 1,080; 30p (progressive), 25p, 24p • 1,920 × 1,080 crop; 30p, 25p, 24p • 1,280 × 720; 60p, 50p, 30p, 25p • 640 × 424; 30p, 25p Actual frame rates for 60p, 50p, 30p, 25p, and 24p are 59.94, 50, 29.97, 25, and 23.976 fps respectively; all options support both high and normal image quality
File format	MOV
Video compression	H.264/MPEG-4 Advanced Video Coding
Audio recording format	Linear PCM
Audio recording device	Built-in monaural or external stereo microphone; sensitivity adjustable
ISO sensitivity	Automatically adjusted in the range ISO 200 to 12800 or ISO 200 to Hi 4
Maximum length	Approx. 29 min. 59 s (20 min. depending on frame size/rate and movie quality settings)
Other movie options	Index marking, time-lapse photography
Monitor	8-cm (3.2-in.), approx. 921k-dot (VGA) TFT LCD with 170° viewing angle, approx. 100% frame coverage, and automatic monitor brightness control using ambient brightness sensor
Playback	Full-frame and thumbnail (4, 9 or 72 images) playback with playback zoom, movie playback, photo and/or movie slide shows, histogram display, highlights, photo information, GPS data display, auto image rotation, voice memo input and playback, and IPTC information embedding and display
USB	Hi-Speed USB
HDMI output	Type C mini-pin HDMI connector; can be used simultaneously with camera monitor
Audio input	Stereo mini-pin jack (3.5-mm diameter; plug-in power supported)
Audio output	Stereo mini-pin jack (3.5-mm diameter)
10-pin remote terminal	Can be used to connect optional remote control, GPS Unit GP-1 or GPS device compliant with NMEA0183 version 2.01 or 3.01 (requires optional GPS Adapter Cord MC-35 and cable with D-sub 9-pin connector)
Ethernet	RJ-45 connector
Peripheral connector	For Wireless Transmitter WT-5A/B/C/D
Supported languages	Arabic, Chinese (Simplified and Traditional), Czech, Danish, Dutch, English, Finnish, French, German, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Spanish, Swedish, Thai, Turkish, Ukrainian
Battery	One Rechargeable Li-ion Battery EN-EL18
AC adapter	AC Adapter EH-6b; requires Power Connector EP-6 (available separately)
Tripod socket	1/4 in. (ISO 1222)
Dimensions (W × H × D)	Approx. 160 × 156.5 × 90.5 mm/6.3 × 6.2 × 3.6 in.
Weight	Approx. 1,340 g/2 lb 15.3 oz with battery and XQD memory card but without body cap and accessory shoe cover; approx. 1,180 g/2 lb 9.6 oz (camera body only)
Operating environment	Temperature: 0 to 40°C/32 to 104°F; humidity: less than 85% (no condensation)
Supplied accessories (may differ by country or area)	Rechargeable Li-ion Battery EN-EL18, Battery Charger MH-26, USB Cable UC-E15, Camera Strap AN-DC7, Body Cap BF-1B, Accessory Shoe Cover BS-2, Eyepiece DK-17, Battery Chamber Cover BL-6, USB Cable Clip, ViewNX 2 CD-ROM

Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer. January 2012

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

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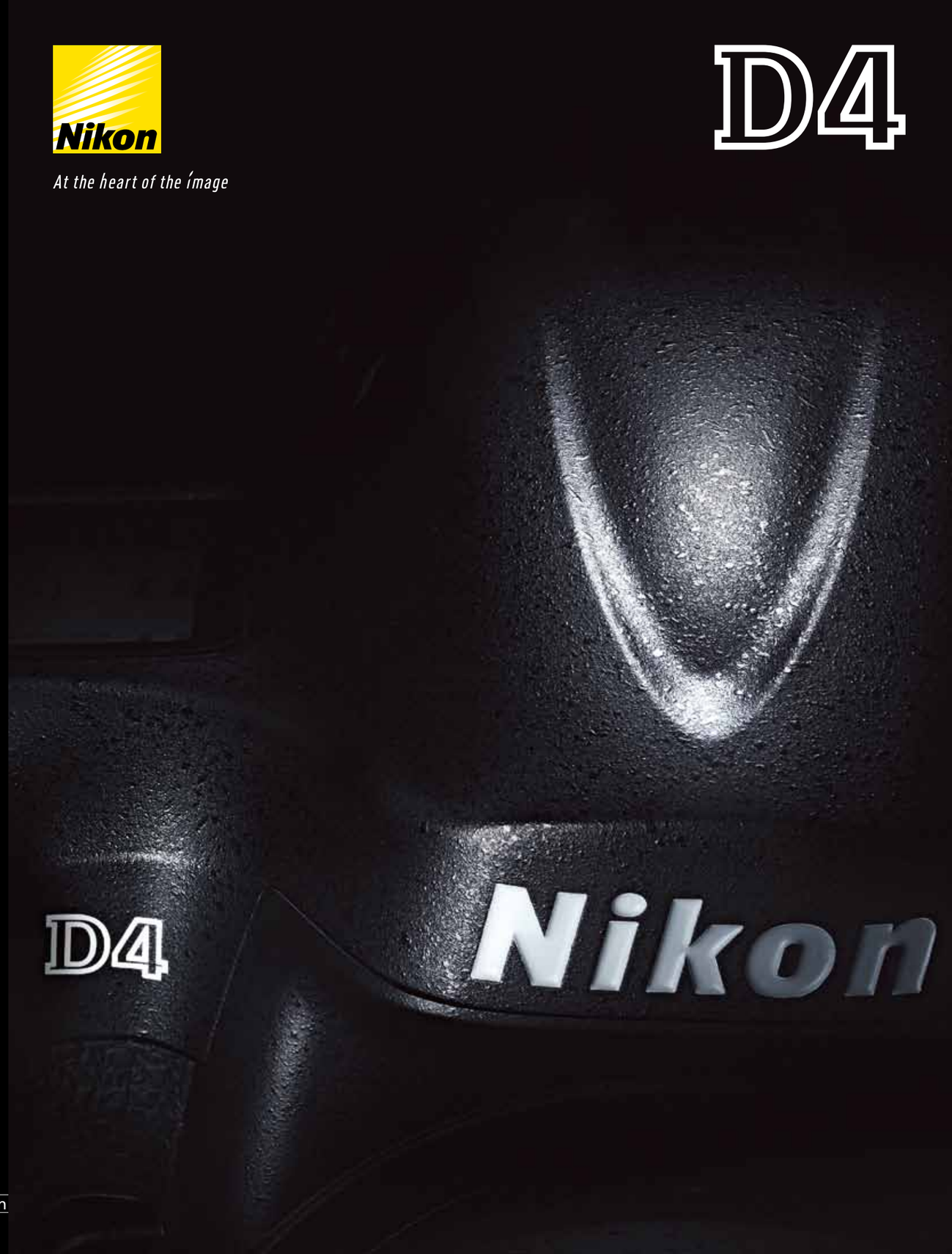
At the heart of the ímage

D4

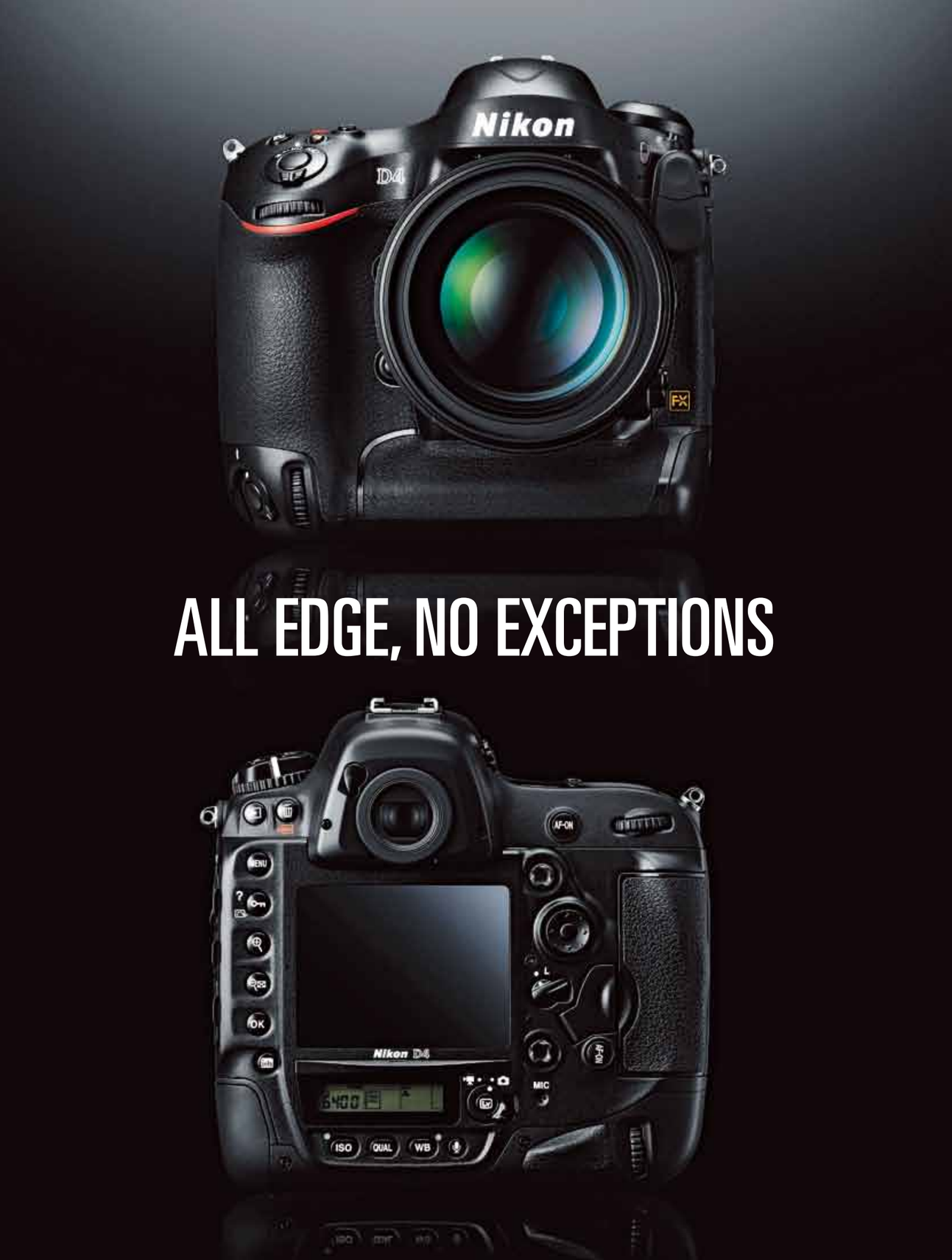


Reigning World Champion in the Triple Jump, Christian Taylor.

- *Lens: AF-S NIKKOR 400mm f/2.8G ED VR*
- *Exposure: [M] mode, 1/1,000 second, f/5.6*
- *White balance: Auto 1 • Sensitivity: ISO 12800*
- *Picture Control: Standard*

- *Lens: AF-S NIKKOR 70-200mm f/2.8G ED VR II*
- *Exposure: [M] mode, 1/1,250 second, f/4*
- *White balance: Color temperature (5,000 K)*
- *Sensitivity: ISO 6400*
- *Picture Control: Standard*

- *Lens: AF-S NIKKOR 14-24mm f/2.8G ED*
- *Exposure: [M] mode, 1/60 second, f/4.5*
- *White balance: Auto 1*
- *Sensitivity: ISO 100*
- *Picture Control: Standard*

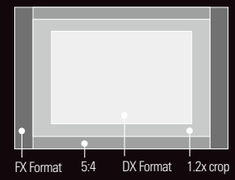


ALL EDGE, NO EXCEPTIONS

Unparalleled image integrity accompanied by speed

Image quality in the most diverse situations

16.2 megapixels in a newly designed FX-format image sensor



The D4 is engineered to achieve image integrity in the most diverse and difficult lighting conditions, thanks to an optimized balance between the FX-format sensor size (36.0 x 23.9 mm) and 16.2 effective megapixels. Uncompromised data readout speed delivers up to 11 fps performance in FX format — faster than any other Nikon camera. The 16.2 megapixels yield not only stunning depth and detail, but also more flexibility in post-production cropping for magazine-quality prints and web publishing. Image quality this versatile is a direct result of Nikon's sophisticated approach to sensor design. Each pixel is as large as 7.3 µm, and painstakingly engineered to collect the maximum amount of light and render the highest possible image quality in both bright and dark conditions. Incredibly clean images with smooth gradations even at high ISO sensitivities can be realized thanks to the optimized noise-reduction design and 14-bit A/D conversion built into the sensor. Unique to Nikon, the D4 expands your still image shooting possibilities with four image area options: FX format (36.0 x 23.9 mm), 5:4 crop (29.9 x 23.9 mm), 1.2x crop (29.9 x 19.9 mm) and DX format (23.4 x 15.5 mm). The camera also offers three image area options for Full HD video thereby tripling its potential for moviemaking.

Super-charged EXPEED 3 image-processing engine

EXPEED 3

EXPEED 3 performs multiple tasks at blindingly fast speeds, a result of engineering expertise and meticulous attention to detail. This imaging engine, optimized for D-SLRs, delivers faithful, well-saturated color, natural depth and an exceptionally wide dynamic range, giving subtle and nuanced tones — from pitch black all the way to snow white. Even when shooting in dim lighting at high ISO sensitivities, the camera's intelligent noise reduction lowers noise without degrading image sharpness. Its massive, high-speed 16-bit image processing delivers smooth gradation and abundant tone and detail that can be applied to image integrity for a diverse range of usages. Submission-ready JPEGs straight out of the camera can be expected for immediate supply to magazines, newspapers or web publications. EXPEED 3 has been optimized for video as well, rendering movie with reduced moiré, false colors and "jaggies."

Reliable ISO 12800 performance as standard

The D4 provides low-noise performance at ISO 12800 and extends the range one EV further, compared with that of the D3S, making ISO 100 standard; a welcome addition when using slow shutter speeds in bright sunlight. For more challenging conditions, equivalent ISO 50 and ISO 204800 sensitivities are available. The D4 can shoot still images and video* confidently and clearly in nearly any light. From the harsh glare of high noon to the pale gray of dusk; from a dimly lit interior to a moonlit forest at midnight; the camera's superb ISO sensitivity controls enable photographers to take a bolder approach to their subject matter.

*D-Movie standard ISO sensitivity from ISO 200 to ISO 12800, with higher sensitivity options up to Hi 4.

High-speed performance that captures the moment

Faster to winning frames: approx. 10/11 fps continuous shooting in FX format with accuracy for up to 200 frames

The D4 is built for speed, but not for speed alone. The D4's readiness and agility go hand in hand with incomparably accurate control of shutter speed, aperture value, autofocus detection and tracking, auto exposure, auto white balance and other control options that get photographers closer to capturing the decisive moment than ever before. Expect 10-fps shutter bursts with full AF and AE performance in FX format. The frame rate can also be boosted to up to 11 fps[*1] in FX format. The camera's large buffer memory allows shooting up to approx. 100 frames[*2] in RAW and up to 200 frames[*3] in JPEG (when using SONY XQD Memory Card H series QD-H32 with 32 GB capacity), saving critical moments that were once spent waiting for the buffer memory to empty — a real advantage that cannot be measured by fps rates alone.

*1 AE/AF may not be activated depending on subject conditions.
*2 Image quality: 12-bit compressed RAW, under test conditions established by Nikon.
*3 Image quality: JPEG (FINE/Medium)

Faster total workflow speed

The D4's speed runs across its entire workflow. The camera is ready to shoot in approx. 0.12 s[*1], and release time lag is minimized to a mere approx. 0.042 s[*1]. The camera's precise sequential mechanism has been redesigned to reach 10/11 fps even more accurately, and optimum card recording speed is ensured with the CF card compatible with UDMA 7, and the next-generation recording media, the XQD memory card, that can be set simultaneously with dual card slots. The XQD memory card's data transfer speed is 125 MB/s[*2] — the industry-leading speed[*3]. High-speed data transfer to a PC is achieved with the memory card reader[*4] that supports USB 3.0, delivering outstandingly faster workflow. The D4's powerful data communication and control system makes both wired and wireless LAN file transfer speeds both faster and easier than ever.

*1 Based on CIPA Guidelines.
*2 SONY XQD Memory Card H series QD-H32 with 32 GB capacity. Under test conditions established by SONY; may vary according to measurement conditions.
*3 Among compact memory cards as of January 6, 2012. (According to research conducted by SONY.)
*4 SONY XQD Memory Card Reader MRW-E80. Under test conditions established by SONY.

Exceptional accuracy allied with speed

Advanced Scene Recognition System

A new level of accuracy in auto operation with 91K-pixel RGB sensor
With Nikon's original Advanced Scene Recognition System, the D4 achieves new standards of accurate autofocus, auto exposure, i-TTL flash, Active D-Lighting and auto white balance results. At the heart of the system is a precise RGB sensor that meticulously reads each scene via 91K-pixels. With unprecedented precision, the data that has been collected pixel-by-pixel is then used to meter and analyze the scene's color information and brightness levels. The system also recognizes human faces when shooting with the optical viewfinder. This rigorously analyzed pixel data then automatically triggers a variety of in-camera controls that help the image files appear more natural and appealing. Advanced Scene Recognition System delivers incredibly high accuracy for various auto controls by flawlessly calculating vast amounts of scene information — even at up to 10 frames per second.

Face detection for improved AF, AE, i-TTL balanced fill-flash and Active D-Lighting
When people's faces are priority subjects, the Advanced Scene Recognition System delivers particularly outstanding performance. The camera's auto-area AF mode accurately recognizes human faces and achieves sharp focus immediately and automatically — useful when there's no time to manually choose focus point. It focuses on a subject's body when the face is out of the AF area. Better auto exposures can be anticipated with Nikon's 3D color matrix metering III, even in situations where exposure compensation is required, such as a dark face against a bright background or conversely, a bright face against a dark background. With the D4's enhanced i-TTL balanced fill-flash paired with Nikon Speedlight(s), human faces can be illuminated in relation to their surroundings with outstanding precision. Moreover, face detection, when paired with Active D-Lighting, delivers images that retain highlights and shadows in high-contrast scenarios, making faces look as they are seen, whether in sunlight or shade.

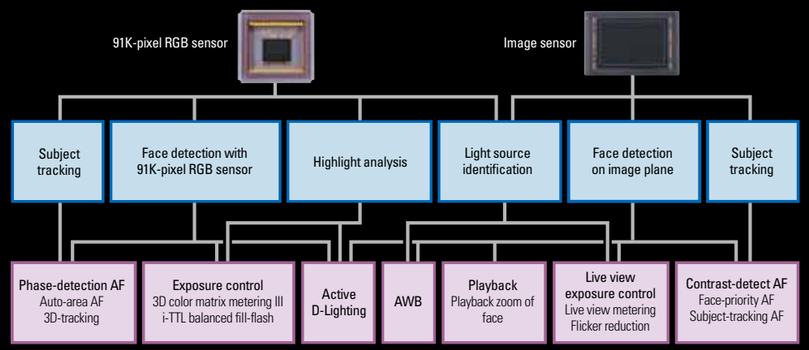
Advanced Multi-CAM 3500FX autofocus sensor module

Faster, sharper subject detection with all 51 AF points with any AF NIKKOR lens, even in low light
Experience the speed needed to capture fast-moving subjects in sharp focus. The Advanced Multi-CAM 3500FX autofocus sensor module utilizes 51 strategically placed AF points that are designed to capture your subject as chosen. Like a net, they work individually and together to capture moving subjects. For absolute accuracy, a single AF point allows the precise placement of the focus point on the subject. All 51 AF points of the D4 are usable with every AF NIKKOR lens of f/5.6 or faster. The D4 delivers high performance even in extremely low-lit situations. AF detection is fast and accurate down to an impressive -2 EV (ISO 100, 20˚C/68˚F), which is approximately the physical limit of human visibility through an optical viewfinder. Consistent, reliable performance can be expected at night stadium assignments, in poorly lit indoor arenas, theaters and any other low-lit venue.

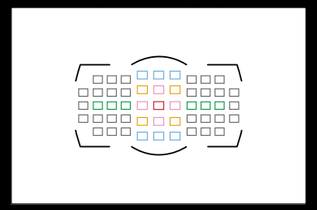
Fast initial AF detection speed
The D4's AF is designed to work as fast as a professional's reflexes. Its faster initial AF detection nails decisive moments like never before and is especially capable in sports photography. Volleyball, soccer, track and field and swimming — whatever the sport, the D4 is ready. A new "Focus+release" is provided as an AF-C priority selection option, enabling high-speed continuous shots that are sharply focused from the initial frame. Even when the subject unexpectedly changes position or distance from the camera, such as in soccer games, AF servo is constantly active during continuous shutter bursts, and quickly detects the subject again.

15 cross-type sensors in the central area and 11 focus points compatible with f/8
The D4 aligns its 15 cross-type sensors in the central viewfinder area to detect contrast in both vertical and horizontal lines for better AF performance. Each cross-type sensor is responsive with f/5.6 and provides its full performance with all AF-NIKKOR lenses. Moreover, the five central focus points and three points to the left and right of them in the middle line are compatible with f/8. Highly accurate focusing is realized even with the effective aperture value of f/8 by combining a 2.0x teleconverter with super-telephoto NIKKOR lenses, that are frequently used for sports shooting. This delivers a new level of potential when shooting distant subjects, such as sports or wildlife.

The Advanced Scene Recognition System



Available focus points according to aperture

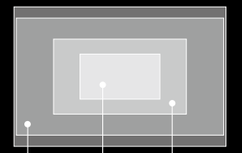


- Compatible with f/8. Performs as a cross sensor.
- Compatible with f/8. Perform as cross sensors with aperture faster than f/8 and as line sensors with f/8.
- Compatible with f/8. Perform as line sensors.
- Compatible with aperture faster than f/8. Perform as cross sensors.
- Compatible with f/5.6. Perform as cross sensors.
- Compatible with f/5.6. Perform as line sensors.

Unrivaled versatility for professional needs

Broadcast quality video

Multi-area mode Full HD D-Movie with three image area options
The D4 can record 1080p Full HD video at 30/25 or 24p in H.264/MPEG-4 AVC format with broadcast quality full of fine tones and natural colors. Located next to the shutter-release button, the dedicated recording start button makes operation intuitive and easy to access. Maximum recording time for a single clip is 29 min. 59 s. Thanks to Nikon's latest image-processing algorithms, the D4's video ensures a smooth look with fewer "jaggies" and less moiré while maintaining sharp edges, even in dark conditions, by using noise-reduction technology designed specifically for video. With the D4, Full HD video is at your disposal in three formats: FX-based, DX-based or 1,920 x 1,080 crop movie format. The FX-based format renders exquisitely shallow depth of field (DOF) as well as wide-angle shooting. It ensures beautiful movies even at high ISO sensitivity with minimal noise. When a DX lens is attached, DX-based format is automatically selected. This format is useful for creating an extension to the focal length of an existing lens. For an even stronger telephoto effect, the 1,920 x 1,080 crop format brings an approx. 2.7x crop of the picture angle while delivering outstanding video quality and detail, obtaining 1080p Full HD. Versatility like this lets you explore different moods with the large and comprehensive selection of NIKKOR lenses.



Excellent audio control
The D4 is designed for crisp stereo recording with a built-in external stereo microphone connector. Attach the compact Stereo Microphone ME-1 to record clear sound while significantly reducing mechanical noise. An external headphone connector enables use of headphones to effectively monitor and control audio in isolation. The indicators offer visual confirmation of audio level and the microphone sensitivity can be precisely controlled in 20 incremental steps.

Professional reliability

Improved operability in every situation
The D4 is designed to make operation in both horizontal and vertical orientations as intuitive as possible. Each orientation has identically laid-out controls, consisting of a main command dial, a sub-command dial, an AF-ON button and a multi selector. The vertical hold is also now more secure with a newly added thumb grip and an extended grip area for the fingers. For frequent use in the vertical orientation, the function button can be customized to quickly access certain functions, such as exposure compensation. When shooting in the dark, the illuminated buttons allow quick and confident identification of function.

Durability in severe environmental conditions

The D4's body is comprised of strong-yet-lightweight magnesium alloy. This assures the camera's superb reliability even in the most demanding environmental conditions. The D4's shutter has been tested for 400,000 cycles on fully assembled cameras at demanding continuous burst rates and over extended time periods. Thorough measures have been taken to seal and protect against invasive moisture, dust and even electromagnetic interference. Its comprehensive sealing, combined with additional Nikon-engineered measures keeps the camera operational in a wide range of severe conditions. What's more, thanks to meticulous re-engineering at a detailed level, the D4 is actually lighter than a D3S yet maintains the same exceptional durability.

Optical viewfinder with grid line option
The D4 offers approx. 100% frame coverage for FX format, with a viewfinder that is designed to minimize visual fatigue over long periods of use. The approx. 0.7x magnification enhances the confirmation of every visual element in the frame. The large, bright viewfinder image and focusing screen are carefully designed to aid precise focusing in both manual and autofocus modes. In addition, grid lines can optionally be placed across the viewfinder for accurate vertical and horizontal orientation.

Professional expandability

Wired and wireless communication system

Wireless Transmitter WT-5A/B/C/D

The D4 employs a built-in wired LAN function of IEEE802.3u standard (10BASE-T, 100BASE-TX). Moreover, the D4 is compatible with the compact, easy-to-connect, newly developed Wireless Transmitter WT-5A/B/C/D* (optional) that realizes high-speed wireless transmission. Also, IPTC (International Press Telecommunications Council) data can be automatically added to the images within the camera. In addition to input with a camera, it is possible to add information to a series of images at high speed using an IPTC file created on a PC in advance.

*Wireless Transmitter WT-4A/B/C/D/E is also compatible.

Optical masterpieces: NIKKOR lenses
To bring out the full potential of the D4, look no further than the vast array of NIKKOR lenses designed and tested to match the D4's resolution and image integrity with sharpness, accuracy, and field-proven reliability. Equip the camera for still and video shooting with a NIKKOR lens, and realize each shot without sacrificing delicate tones or nuance. From f/1.4 primes to fast f/2.8 zooms to f/4 zooms with VR, the latest line of FX-format lenses — many featuring our renowned Nano Crystal Coat — is fully optimized for the challenging lighting conditions in which the Nikon D4 is built to excel.