



At the heart of the image

DIGITAL SLR CAMERA

D2Hs



D2Hs

Nikon's professional digital SLR for action and sports photographers delivers a winning combination of speed, image quality and workflow efficiency.

Rapid Response & High Performance

Up to 50 consecutive shots at 8 fps

High-speed processing, high-performance components and a new larger buffer with faster memory access increase the number of consecutive shots to as many as 50 JPEG or 40 RAW (NEF) per burst.

Immediate response & ultra-short 37 ms shutter lag

Instant power-up, a class-leading shutter release time lag of a mere 37 milliseconds, and optimized systems throughout make the D2Hs ready to shoot whenever the decisive moment may arise.

Faster, higher precision 11-area AF system

The class-leading detection range and flexibility of Nikon's advanced 11-area Multi-CAM 2000 AF module features improved focus precision with faster subject acquisition and subject tracking capabilities.



Exceptional Image Quality

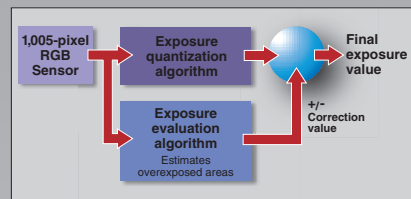
New image processing engine improves image quality



Further refinement of the image processing ASIC produces finer gradations with smoother transitions across the color range and purer color rendition for natural, more lifelike color reproduction.

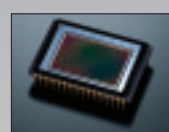
3D-Color Matrix Metering II

The improved exposure metering system allows Nikon's proven 1,005-pixel RGB Exposure/Color Matrix Metering Sensor to better determine the brightness and size of highlight areas and achieve optimum exposure for each shot.



RGB Exposure/Color Matrix Metering Sensor to better determine the brightness and size of highlight areas and achieve optimum exposure for each shot.

Nikon DX Format JFET image sensor LBCAST



Nikon's exclusive JFET image sensor LBCAST combines optimized resolution of 4.1 effective megapixels with speed and low power consumption to deliver maximum performance.

Color accurate Auto White Balance

Improvements to the metering technology for refined Auto White Balance reduce the effect of ambient light on color reproduction for greater consistency when shooting with Speedlights, and for better results when shooting under low lighting conditions.

Outstanding Operational Efficiency

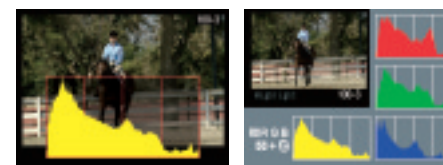
Color modes and sYCC support

Adding to the flexibility and efficiency of its three available color mode settings, the D2Hs introduces sYCC color space support to JPEG files for a wider gamut that can fully exploit the output capabilities of the latest color printers.

GPS compatible

External GPS units can be connected via the optional adapter cable (MC-35) to store the latitude, longitude, altitude and UTC (Coordinated Universal Time) of a shot in the file's metadata.

High-resolution 2.5" LCD



An all-new higher resolution 2.5-inch 232,000-pixel LCD monitor delivers clearer, flicker-free image playback at up to 15x magnification. An improved histogram and new selectable RGB Histogram displays allow for quick, easy and accurate exposure confirmation.

Improved information displays

Nikon's intuitive menu navigation uses color coding and large type to further improve operational ease, as do the new menu help function, chronological Recent Settings list, and the World Time menu with world map to keep Exif data current across differing time zones.

Ready for the rigors of every assignment

Built to perform reliably, the D2Hs features a lightweight, rigid magnesium alloy body with an enhanced sealing system to provide outstanding resistance to moisture and dust, as well as a highly durable field-proven shutter unit.

Advanced lithium-ion battery system



The system features a compact rechargeable lithium-ion battery that delivers improved longevity capable of approx. 2,900 shots per charge, linked to accurate real-time system status displays on the LCD monitor.

Extensive selection of compatible Nikkor lenses

The Nikon F lens mount assures unprecedented compatibility with the expanding family of digital dedicated DX Nikkor lenses as well as Nikon's comprehensive lineup of AF/AF-S Nikkor lenses long favored by professionals for their outstanding auto focus performance, superb color, high contrast and smooth rendition of out of focus areas in backgrounds.

Versatile software supplied

Updated to better satisfy professional demands, Nikon's PictureProject software provides fast and easy access to powerful image management, editing and sharing tools. Features include automatic file import, drag-and-drop organization, easy CD/DVD archiving, and plug-in filter support for flexible expandability.



Nikon Capture 4 (ver 4.2* - optional software)

The unique, powerful and expandable environment provides the fullest control over processing Nikon's RAW (NEF) files for optimum results, and enables extensive remote control and transfer options for all Nikon D-SLR cameras. Version 4.2 incorporates sophisticated new tools to increase productivity and creative control even further.

*Nikon Capture 4 (Ver. 4.2.1) is required for working with RAW (NEF) files from the D2Hs. Nikon Capture 4 (Ver. 4.2) can be updated by downloading the Ver. 4.2.1 updater.

i-TTL flash control and Nikon's Creative Lighting System

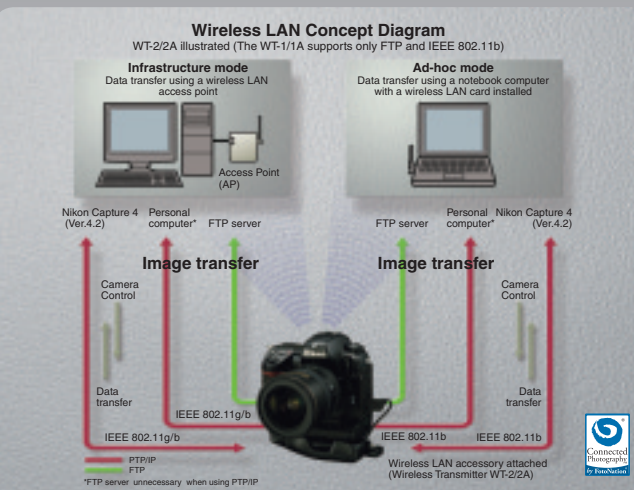
Nikon's exclusive i-TTL flash control delivers excellent flash exposures, even in bright light conditions. Advanced Wireless Lighting enables total remote operation over the versatile functions of up to four groups of multiple Nikon SB-800 and SB-600 Speedlights. The D2Hs is also compatible with the SB-80DX and other earlier Speedlights that use D-TTL flash control.



Other features

- Auto exposure bracketing for up to 9 consecutive frames
- White balance bracketing for up to 9 consecutive frames
- Auto ISO sensitivity control
- High-speed access to storage media for fast recording and playback
- USB 2.0 Hi-Speed interface
- Large viewfinder with virtually 100% frame coverage
- Voice memo function
- Menu support for 10 languages
- PictBridge compatible

Wireless data transfer and camera control



The optional Wireless Transmitter WT-2/2A supports IEEE 802.11g for faster transfer speeds, while maintaining full backward compatibility with IEEE 802.11b networks. Wireless security options are strengthened and a wider variety of network protocols supported, including the revolutionary new PTP/IP protocol that enables complete wireless remote control of the camera from a computer. The D2Hs is also compatible with the Wireless Transmitter WT-1/1A.



Note: The WT-2/1 is sold in countries where governments approve the use of thirteen frequency channels. The WT-2A/1A version is sold in countries where governments limit use to eleven frequency channels.

Nikon Digital SLR Camera D2hs Specifications

Type of Camera	Lens-interchangeable digital SLR camera
Effective Pixels	4.1 million
Image Sensor	JFET image sensor LBCAST, 23.3 x 15.5mm size, 4.26 million total pixels
Recording Pixels	[L] 2,464 x 1,632-pixel / [M] 1,840 x 1,224-pixel
Sensitivity	ISO equivalency 200 to 1600 (Hi-1 and Hi-2 available)
Storage System	NEF (12-bit uncompressed or compressed RAW), Exif 2.21, DCF 2.0 and DPOF compliant (uncompressed TIFF-RGB or compressed JPEG)
Storage Media	CompactFlash™ (CF) Card (Type I / II) and Microdrive™
Shooting Modes	1) Single frame shooting [S] mode: advances one frame for each shutter release 2) Continuous high shooting [Ch] mode: 8 frames per second (fps) [up to 50 (JPEG)/40 (TIFF)/40 (RAW:NEF) consecutive shots] 3) Continuous low shooting [Cl] mode: 1 to 7 frames per second (fps) (selectable from menus) 4) Self-timer mode: time duration can be set 5) Mirror up mode: first press: mirror up, second press: release
White Balance	1) Auto (hybrid with 1,005-pixel RGB CCD, LBCAST image sensor and external Ambient Light Sensor) 2) Manual (6 steps with fine tuning) 3) Preset (5 settings) 4) Color temperature setting in Kelvin (select from 31 steps) 5) White Balance Bracketing (2 to 9 frames adjustable in 10, 20, 30 MIREd steps)
LCD Monitor	2.5-in., 232,000-dot, low temp. polysilicon TFT LCD with white LED backlighting; Backlight/brightness adjustment available
Playback Function	1) Full frame, 2) Thumbnail (4/9 segments), 3) Zoom, 4) Slideshow, 5) RGB Histogram indication, Shooting data and Highlight point display
Delete Function	1) Card format, 2) All frames delete, 3) Selected frames delete
Video Output	NTSC or PAL (switchable in menu)
Interface	USB 2.0 (Hi-Speed) (Mini-B connector) FTP file transfer and PTP/IP camera control/file transfer is available with optional WT-2/2A (IEEE 802.11b/g) Wireless Transmitter; FTP file transfer compatibility with WT-1/1A (IEEE 802.11b) CF Card Slot Type II: supports firmware updates via CF cards
Voice Memo	Record mode: Automatic or manual recording at shooting or playback Max. recording time: 60 seconds Playback mode: Built-in speaker or Audio Video Cable File format: Mono WAV file
Text Input	Up to 36 characters of alphanumeric text input is available with LCD monitor and multi-selector; stored in Exif header
Usable Lenses	1) AF Nikkor (including AF-S, DX, VR and D-/G-type): All functions possible 2) D-type Manual-Focus Nikkor: All functions except autofocus and some exposure modes available 3) AF Nikkor other than D-/G-type: All functions except 3D-Color Matrix Metering II and 3D Multi-Sensor Balanced Fill-Flash possible 4) AI-P Nikkor: All functions except 3D-Color Matrix Metering II, 3D Multi-Sensor Balanced Fill-Flash and AF possible 5) Non-CPU AI Nikkor: Usable in [A] or [M] mode with Matrix Metering, Center-Weighted and Spot Metering available Indication of aperture No., after user inputs the aperture f/No. and focal length f=mm by multi-selector operation Electronic rangefinder usable with maximum aperture of f/5.6 or faster
Picture Angle	Approx. 1.5x focal length in 35mm [135] format equivalent
Viewfinder	Optical-type fixed eye-level pentaprism; Built-in diopter adjustment (-3 to +1m ⁻¹), Eyepiece shutter provided
Eyepoint	19.9mm (at -1.0m ⁻¹)
Focusing Screen	BriteView Clear Matte Screen III Type-B; interchangeable with optional Type-E with grid
Viewfinder Frame Coverage	Approx. 100%
Viewfinder Magnification	Approx. 0.86x with 50mm f/1.4 lens set to infinity and -1.0m ⁻¹
Reflex Mirror	Automatic, instant-return type
Lens Aperture	Instant-return type, with Depth-of-field Preview Button
Autofocus	TTL phase detection, Nikon Multi-CAM 2000 autofocus module; Detection range: EV -1 to +19 (Right edge/Left edge AF range: EV 0 to +19) [at normal temperature (20°C / 68°F), ISO 100 equivalent]
Lens Servo	1) Single Servo AF [S], 2) Continuous Servo AF [C], 3) Manual focus [M] Focus Tracking automatically activated by subject's status in [S] or [C] AF
Focus Area	Selectable from 11 focus areas
AF Area Modes	1) Single Area AF, 2) Dynamic AF with Focus Tracking and Lock-on™, 3) Closest Subject Priority Dynamic AF, 4) Group Dynamic AF
Focus Lock	Focus is locked by pressing AE/AF Lock button or lightly pressing shutter release button in [S] AF

Exposure Metering System	TTL full-aperture exposure metering system; 1) D-/G-type Nikkor lenses support 3D-Color Matrix Metering II using the 1,005-pixel RGB Sensor while other AF Nikkor lenses with built-in CPUs support Matrix Metering (Non-CPU lenses require manual input of lens data) 2) Center-Weighted Metering (75% of the meter's sensitivity concentrated on the 8mm dia. circle) given to 6, 10 or 13mm dia. circle in center of frame, or weighting based on average of entire frame 3) Spot Metering (3mm dia. circle, approx. 2% of entire frame); metering position can be linked to the focus area when using Nikkor lenses with built-in CPU
Exposure Metering Range	1) 3D-Color Matrix Metering II: EV 0 to 20 2) Center-Weighted Metering: EV 0 to 20 3) Spot Metering: EV 2 to 20 [at normal temperature (20°C/68°F), ISO 100 equivalent, f/1.4 lens]
Exposure Meter Coupling	CPU and AI (Automatic maximum aperture Indexing)
Exposure Modes	1) [P] Programmed Auto (Flexible program possible) 2) [S] Shutter-Priority Auto 3) [A] Aperture-Priority Auto 4) [M] Manual
Exposure Compensation	Exposure compensated in ±5.0 EV range in 1/3, 1/2 or 1 EV steps
Auto Exposure Lock	Detected exposure value locked by pressing AE-L/AF-L button
Auto Exposure Bracketing	Number of shots: 2 to 9 frames Compensation steps: 1/3, 1/2, 2/3, or 1 EV steps
Shutter	Electromagnetically controlled vertical-travel focal-plane shutter, 30 to 1/8,000 second and bulb
Sync Contact	X-contact only: flash synchronization up to 1/250 second
Flash Control	1) New Creative Lighting System: i-TTL Balanced Fill-Flash controlled by TTL Sensor with Nikon Speedlight SB-800/600: Advanced Wireless Lighting, FV (Flash Value) Lock, Flash Color Information Communication for Auto White Balance, Auto FP High-Speed Flash Sync, Modeling Flash 2) D-TTL Balanced Fill-Flash: When used with the Speedlight SB-80DX/50DX and in accordance with the mounted lens, five-segment TTL Multi Sensor control makes available 3D Multi-Sensor Balanced Fill-Flash, Multi-Sensor Balanced Fill-Flash, and Standard D-TTL Balanced Fill-Flash 3) AA (Auto Aperture-type) Flash available when used with SB-800/80DX and lens with built-in CPU 4) Non-TTL Auto Flash (A-type Flash) with a Speedlight such as SB-800/30/27/22s etc. 5) Range-priority manual available with SB-800
Flash Sync Modes	1) Front-Curtain Sync (normal sync), 2) Red-Eye Reduction, 3) Red-Eye Reduction with Slow Sync, 4) Slow Sync, 5) Rear-Curtain Sync
Ready-light	Lights up when flash fully charged with Speedlight SB-800/600/80DX/50DX/30/27/22s; blinks for full output warning
Accessory Shoe	ISO 518 standard-type hot shoe contact; Safety lock mechanism provided
Sync Terminal	ISO 519 standard terminal, lock screw provided
Self-timer	Electronically controlled; Timer duration: 2, 5, 10, and 20 seconds
Depth-of-field Preview Button	Stop-down lens aperture by pressing Depth-of-field Preview Button
Remote Control	Via 10-pin remote terminal
GPS	NMEA 0183 (ver. 2.01) interface standard supported with 9-pin D-sub cable (optional) and GPS Cable MC-35 (optional)
Supported Languages	English, French, German, Spanish, Italian, Dutch, Swedish, Simplified Chinese, Korean, Japanese (selectable in menu)
Power Requirements	Rechargeable Li-ion Battery EN-EL4 (1.1V DC), Quick Charger MH-21, AC Adaptor EH-6 (optional)
Battery Monitoring System	The LCD monitor on the camera back displays the following information about the EN-EL4 battery: 1) Remaining charge (%); 2) No. of shots taken since last charge; 3) Calibration status (Recommended/Not required); 4) Battery life (5 stages)
Tripod Socket	1/4 in. (ISO1222)
Dimensions (WxHxD)	Approx. 157.5 x 149.5 x 85.5mm (6.2 x 5.9 x 3.4 in.)
Weight (without battery)	Approx. 1,070g (2.4 lbs)
Supplied Accessories*	Rechargeable Li-ion Battery EN-EL4, Quick Charger MH-21, Body Cap, Camera Strap AN-D2Hs, Audio Video Cable EG-D2, USB Cable UC-E4, LCD Monitor Cover BM-3, Battery Chamber Cover BL-1, PictureProject software CD-ROM
Optional Accessories	Wireless Transmitter WT-2/2A/1/1A, Extended Range Antenna WA-E1, AC Adaptor EH-6, Type-E Focusing Screen, Antifog Finder Eyepiece DK-17A, Eyepiece Correction Lens DK-17C series, Speedlight SB-800/SB-600, Nikon Capture 4 software, CompactFlash™ card

*Supplied accessories may differ in each country or area.

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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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