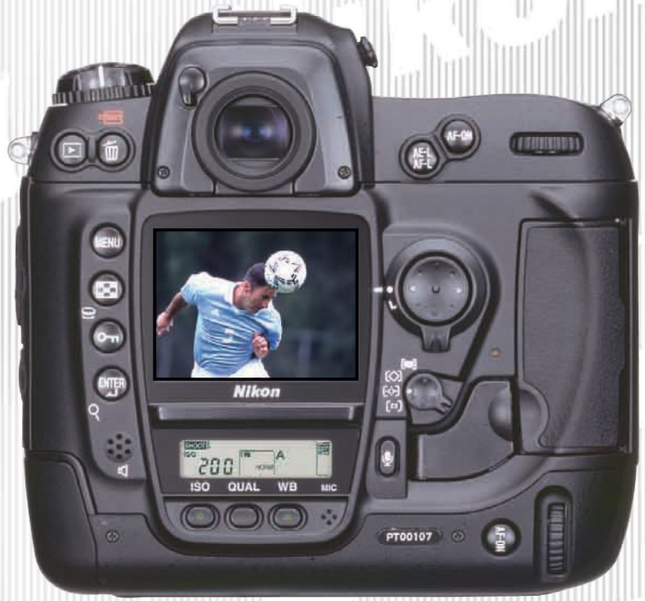
DIGITAL SLR CAMERA

D2H

Nikon studied every aspect of performance and applied a full range of advanced technology to create the next-generation professional digital SLR for photojournalism, action and sports. The D2H incorporates a surpassing combination of speed, resolution, handling and faster workflow for Total Image Quality and total system performance.



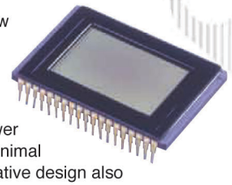
Advanced Nikon Technologies Culminate in Higher Speed and Sharper, Highly Accurate Performance

Unparalleled Continuous Shooting
Shoot at **8 frames per second** for up to **40 consecutive** JPEG or **25** RAW (NEF) full-resolution (2,464 x 1,632 pixel) images.

Amazingly Short 37ms Shutter Time Lag
The D2H is as responsive as the Nikon F5 professional film SLR.

Instant Power-up
The D2H is ready to take pictures the instant it is turned on.

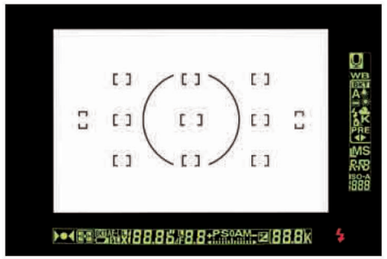
New Nikon DX Format JFET Imaging Sensor LBCAST



Nikon's exclusive new **LBCAST** JFET imaging sensor features higher speed, higher resolution, lower power consumption, and minimal dark noise. Its innovative design also eliminates the need to perform fixed pattern noise correction at power-up to deliver the instant responsiveness professionals need to capture the moment. And, the new thinner Optical Low Pass Filter (OLPF) effectively suppresses moiré patterns.

New High-speed, High-precision 11-Area AF System with 9 Cross-Type AF Sensors
The new advanced **Multi-CAM 2000 AF Sensor Module** ensures quick response and razor-sharp focus regardless of shooting conditions. The system features 11 sensors of which 9 are cross-type sensors that effectively cover the majority of the image area.

- **Single Area AF**
- **Dynamic AF with Focus Tracking and Lock-on™**
- **Closest Subject Priority Dynamic AF**
- **Group Dynamic AF**



Reliable Shutter Unit
- Shutter speeds from 1/8,000 to 30 seconds and bulb
- TTL flash sync speed of up to 1/250 s and up to 1/8,000 s with **AUTO FP High-Speed Sync**
- Shutter unit built to endure over 150,000 cycles* * Nikon test conditions

Innovative image processing raises Nikon Total Image Quality to higher levels of performance

Improved Image Processing Algorithm
The new highly advanced image-processing engine features 3D Matrix Image Control and innovative technologies that deliver subtle color gradations and smooth diagonal lines while diminishing color fringing and false colors. The result is a superior balance of high speed and faithful color reproduction with sharper details.

New Generation Color Reproduction System
Select from three optimized color modes to best match the color gamut and rendering required for differing assignments and workflow environments.
Mode I : Optimized for portraits and natural skin tones (sRGB)
Mode II : Optimized to realize a wide color gamut (Adobe RGB)
Mode III : Optimized for landscapes and flora colors (sRGB)

New JPEG and RAW (NEF) Combination Filing System
Simultaneous recording of RAW (NEF: Nikon Electronic image File) and JPEG data for the same shot to the camera's CompactFlash™ or Microdrive™ media helps optimize and speed up workflow operations.

New Auto White Balance / Auto Tone Control System
New metering technology for the D2H combines three separate sensors to achieve refined Auto White Balance (AWB) and Auto Tone Control (ATC). Nikon's acclaimed **1,005-pixel RGB Exposure / Color Matrix Metering Sensor** performs direct TTL metering of the subject. The **LBCAST** sensor calculates the lighting characteristics of the actual image data. And, the new external **Ambience Light Sensor** meters ambient light without being affected by the color of the subject, while also recognizing light flicker to distinguish artificial from natural light. Revised integrated signal processing and AWB and ATC algorithms contribute to deliver refined color and tone reproduction under different light conditions. New easy-to-use preset WB controls were also developed for the new system.

Real-time Noise Reduction

Voice Memo

Built-in Interval timer

A New Nikon Design Identity that Speaks of Greater Reliability, Ruggedness and Enhanced Handling

Size and Strength Professionals will Appreciate
The D2H features a durable, lightweight and compact magnesium (Mg) alloy body with a sealing system that is highly resistant to drops of water and dust. Its large buttons and controls are placed logically to make access and operation easier.

Extra Large 2.5-inch 211,000-pixel LCD Monitor
The high-resolution LCD monitor has a resilient tempered glass surface and features clearer viewing of menus, histogram and other playback modes, One-Touch Zoom, and new on-demand information.

A Viewfinder Made to Please the Pros
The eye-level viewfinder features virtually 100% frame coverage.

New Lithium-ion Battery System
The new compact lithium-ion battery combines light weight, high energy capacity and extended life. Free of "memory effect", it can be recharged at any time. An accurate indicator on the camera's LCD monitor displays the percent of remaining charge, the status of the battery's life, and recommends calibration when necessary.

Seamless integration with the Nikon Total Imaging System for smoother workflow and greater productivity

Fast & Convenient USB 2.0 (Hi-Speed) Interface

Wireless Transmitter WT-1 (optional)
The new **Wireless Transmitter** attaches to the camera bottom and connects to the USB 2.0 port to realize wireless transfer of images directly to any **IEEE 802.11b** compatible access point without restricting movement.

Integrated Nikon Software Solutions
Optional **Nikon Capture 4** software is a comprehensive image-editing and remote camera control package that fully supports RAW (NEF: Nikon Electronic image File), TIFF and JPEG images shot by the D2H and other Nikon digital SLRs. An advanced algorithm converts 12-bit RAW (NEF) images for 16-bit processing while preserving the original data as a permanent archive.
Capture 4 adds:
- **Image Dust Off** sensor dust & particle shade removal control
- **Digital DEE™** scene-specific automatic dodge and burn control
- Transformation of shots from the DX Fisheye 10.5mm lens to rectangular ultra-wide images

Versatile functions of the bundled **Nikon View** software simplify data transfer and browsing of

Nikon Capture 4

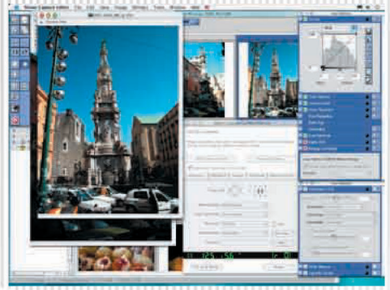


image files. Improvements to the new version include faster browsing, viewer and data transfer functions, and easier editing.

New Creative Lighting System
Nikon's new **Speedlight SB-800** with **i-TTL flash control** further evolves D-TTL to introduce features that include Flash Value Lock (**FV-Lock**), **AUTO FP High-Speed Sync**, and **Flash Color Information Communication**. Also new is the Wide Area AF Assist Illuminator that is tailored to the D2H's new 11-area AF system.
The D2H is optimized to take full advantage of the new **i-TTL** system, which supports **Advanced Wireless Lighting** and versatile functions for up to 3 remote i-TTL speedlight groups controlled through the master SB-800.
The D2H is also compatible with the D-TTL flash control of Nikon SB-80DX/50DX/28DX Speedlights and hard-wired multiple flash control.

The Nikkor Lens Lineup and New DX Nikkor Lenses
The D2H is compatible with AF Nikkor lenses. The advent of DX Nikkor lenses, designed exclusively for use with Nikon DX format digital SLRs, extends coverage to the ultra-wideangle range while providing high-performance optics in a lightweight, compact design. Two new DX Nikkor lenses now join the AF-S DX Zoom-Nikkor 12-24mm f/4G IF-ED to further expand this range: the AF-S DX Zoom-Nikkor 17-55mm f/2.8G IF-ED and AF DX Fisheye-Nikkor 10.5mm f/2.8G ED.
New to the Vibration Reduction Lens lineup is the AF-S VR Zoom-Nikkor 200-400mm f/4G IF-ED.

with Nikon Wireless Transmitter WT-1(option)

D2H Specifications

Type of Camera	Lens-interchangeable digital SLR camera
Effective Pixels	4.1 million
Image Sensor	JFET image sensor LBCAST, 23.1 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 1,600 (variable in 1/2, 1/3, or 1EV steps), Sensitivity can be extended by 1 or 2 steps beyond ISO 1,600
Storage System	NEF (12-bit RAW uncompressed or lossless compression), Exif 2.2 file (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 40 (JPEG) / 25 (RAW:NEF) consecutive shots] 3) Continuous low shooting [CL] mode: 1 to 7 fps (selectable from menus) 4) Self-timer mode: time duration can be set 5) Mirror up mode: first press: mirror up, second press: release 6) Playback mode: Menu mode 7) PC mode: data transfer via personal computer 8) Interval timer (Intervalometer) mode provided
White Balance	1) Auto (hybrid with 1,005-pixel CCD, LBCAST image sensor and external Ambience Light Sensor 2) Manual (6 steps with fine tuning) 3) Preset (5 settings) 4) Color temperature setting in Kelvin (select from 31steps) 5) White Balance Bracketing (2 to 9 frames adjustable in 10,20,30 MIRED steps)
LCD Monitor	2.5-in., 211,200-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) One-touch zoom, 4) Slideshow, 5) Histogram indication, and Highlight point display
Delete Function	1) Card format, 2) All frames delete, 3) Selected frames delete
Video Output	NTSC or PAL (switchable)
Interface	USB 2.0 (Hi-Speed) (Mini-B connector) FTP file transfer available with optional Wireless Transmitter WT-1(IEEE 802.11b)
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 30 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 and 3D Multi-Sensor Balanced Fill-Flash possible 4) AI-P Nikkor: All functions except 3D Color Matrix Metering, 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	B-type BrightView Clear Matte Screen III; Interchangeable with optional E-type finder screen 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-CAM2000 autofocus module; Detection range: EV -1 to +19 (ISO 100 equivalent, at normal temperature)
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 Mode	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 using the 1,005-pixel CCD 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) 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: 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 Mode	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 1EV steps
Shutter	Electromagnetically controlled vertical-travel focal-plane shutter, 30 to 1/8,000 s and bulb
Sync Contact	X-contact only: flash synchronization up to 1/250 s
Flash Control	1) New Creative Lighting System: i-TTL Balanced Fill-Flash controlled by five-segment TTL Multi Sensor with Nikon Speedlight SB-800: 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-30/27/22s etc.
Flash Sync Mode	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-800/80DX/50DX/30/28/ 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
Power Requirements	Exclusive Rechargeable Li-ion Battery EN-EL4 (11.1V DC), Battery Charger MH-21, Exclusive AC Adapter EH-6
Tripod Socket	1/4 in. (ISO1222)
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)
Dimensions (W x H x D)	Approx. 6.2 x 5.9 x 3.4 in. (157.5 x 149.5 x 85.5mm)
Weight (without battery)	Approx. 2.4lbs (1,070g)
Supplied Accessories*	Li-ion Battery EN-EL4, Quick Charger MH-21, Body Cap, Camera Strap AN-D2H, AV Cable EG-D2, USB Cable UC-E4, LCD Monitor Cover BM-3, Nikon View Software CD-ROM
Optional Accessories	Wireless Transmitter WT-1, Extension Antenna WA-E1, AC Adaptor EH-6, E-type Finder Screen, Anti-fog Finder Eyepiece DK-16A, Eyepiece Correction Lens DK-16C series, Speedlight SB-800/80DX/50DX, Nikon Capture 4 software, CompactFlash™ card

*Supplied accessories may differ in each country or area

Note:
DX Nikkor lenses are designed exclusively for Nikon digital SLRs and their DX format Sensor. When selecting a lens for use on a Nikon D-Series SLR, pay special attention to the angle of view that is possible with each selected focal length.
All Nikon D-Series SLRs will provide the same angle of view with each DX Nikkor and AF Nikkor lens. The shorter focal length DX Nikkor optics provide the widest available angle of view.

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

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Nikon

At the heart of the image

DIGITAL SLR CAMERA

D2H

8 Frames per Second for up to

40 Consecutive Shots

4.1 Effective Megapixels

Nikon Exclusive JFET Image Sensor LBCAST

All New Fast and Accurate **11** -area AF System

IEEE802.11b Wireless Transmitter (option)