

## Two solutions. One ideal.

At Nikon we have always been driven by one ideal: Total Image Quality. Now we have extended that vision to offer two solutions — the superior resolution of the D1x and the fast-action workflow-based D1H. Make your choice and benefit from Nikon's Total Imaging System.

**5.47-megapixel\* CCD**  
(5.90- and 2.62-megapixel recording),  
**3 fps for up to 9 consecutive shots.**

**Superior total image quality,  
now with higher resolution.**

Professional Digital SLR Camera

# D1x

\*Total pixels



### Total image quality

- **D1x:** 23.7 x 15.6mm **5.47-megapixel CCD** for 4,024 x 1,324-pixel images (output at 3,008 x 1,960 pixels and at 2,000 x 1,312 pixels)
- **D1H:** 23.7 x 15.6mm **2.74-megapixel CCD** for 2,012 x 1,324-pixel images (output at 2,000 x 1,312 pixels)
- Newly designed **3D Digital Matrix Image Control** (3D Color Matrix Metering, TTL White Balance and Tone Compensation) **featuring new algorithm** ensures:
  - **Precise exposure control**
  - **Adaptive auto white balance control**
  - **Optimal color accuracy**
- **Picture noise is minimized even in high-sensitivity range**  
**D1x:** ISO-equivalent **125-800 sensitivity range**  
**D1H:** ISO-equivalent **200-1,600 sensitivity range**
- 3D Multi-Sensor Balanced Fill-Flash controlled by **newly developed algorithm**
- **Two color modes** selectable for different workflow environments (optimized for sRGB color space and Adobe RGB color space)

### Enhanced speed

- Superhigh-speed image processing by **newly developed system LSI**
  - **D1x:** Continuous shooting mode: approx. **3 frames per second** for up to **9** consecutive shots
  - **D1H:** Continuous shooting mode: approx. **5 frames per second\*** for up to **40\*\*** consecutive shots
  - Shutter release time lag as short as the D1 and a quick startup
  - Top shutter speed of 1/16,000 sec. and flash sync speed up to 1/500 sec.
  - **IEEE1394** interface with enhanced transfer speed
- \*World's fastest among lens-interchangeable digital SLR cameras, as of January 2001  
\*\*World's largest in continuous shooting for full-frame images among lens-interchangeable digital SLR cameras, as of January 2001

### Improved operability

- **Newly developed 130,000-dot TFT LCD** color monitor with white LED backlighting
  - **Custom Setting menu** is **displayed on LCD color monitor** (in four languages: English, French, German, Japanese)
  - **One-touch playback for rapid review** and **instant return to Shooting Mode**
  - **Enlarged playback** and thumbnail playback (in either 9 or 4 segments)
  - **100% area-accurate playback coverage** on LCD color monitor
  - Supports CompactFlash™ Card (Type I/II) and **Microdrive\*\*\*\***
  - **Lossless-compression mode for RAW files** to increase CF card capacity and image transfer speed without sacrificing image quality
  - RS-232C interface for connection to **GPS** position information unit
  - Broad system compatibility with Nikon professional SLRs F5, F100 and D1
  - Lightweight, durable magnesium (Mg) body
- \*\*\*\* 512MB and 1GB types can be used.

**5 fps\*\* for up to 40 consecutive shots,  
2.74-megapixel\* CCD.**

**Superior total image quality,  
now offering faster action  
and faster workflow.**

Professional Digital SLR Camera

# D1H

\*Total pixels

\*\*World's fastest among lens-interchangeable digital SLR cameras, as of February 2001



## Nikon Professional Digital SLR Camera D1x/D1H Specifications

	D1x	D1H																								
<b>Type of Camera</b>	Lens-interchangeable digital SLR camera																									
<b>CCD</b>	23.7 x 15.6mm RGB CCD; 5.47 million total pixels; 5.32 million effective pixels (4,024 x 1,324 array); captures 12-bit full-color image	23.7 x 15.6mm RGB CCD; 2.74 million total pixels; 2.66 million effective pixels (2,012 x 1,324 array); captures 12-bit full-color image																								
<b>Recording Pixels</b>	3,008 x 1,960/2,000 x 1,312	2,000 x 1,312																								
<b>Sensitivity</b>	ISO equivalency 125-800 (variable in 1/3, 1/2 or 1 EV steps)	ISO equivalency 200-1,600 (variable in 1/3, 1/2 or 1 EV steps)																								
<b>Storage</b>	<b>System:</b> Digitally stored; JPEG Baseline (approx. 1/4, 1/8, 1/16 compressed), uncompressed (12-bit Raw*, 8-bit YCbCr-TIFF, 8-bit RGB-TIFF), monochrome mode <b>Media:</b> CompactFlash™ (CF) Card (Type I/II) and Microdrive™* <b>Modes and No. of frames (approx.) (with EC-96CF 96MB CF Card):</b> <table border="1" style="margin-left: 20px;"> <thead> <tr> <th></th> <th>D1x</th> <th>D1H</th> </tr> </thead> <tbody> <tr> <td></td> <td>3,008 x 1,960</td> <td>2,000 x 1,312</td> </tr> <tr> <td>Raw (uncompressed Raw)**</td> <td>11</td> <td>23</td> </tr> <tr> <td>Hi (uncompressed YCbCr-TIFF)</td> <td>8</td> <td>18</td> </tr> <tr> <td>Hi (uncompressed RGB-TIFF)</td> <td>5</td> <td>12</td> </tr> <tr> <td>Fine (approx. 1/4 compressed)</td> <td>29</td> <td>65</td> </tr> <tr> <td>Normal (approx. 1/8 compressed)</td> <td>58</td> <td>128</td> </tr> <tr> <td>Basic (approx. 1/16 compressed)</td> <td>114</td> <td>246</td> </tr> </tbody> </table>			D1x	D1H		3,008 x 1,960	2,000 x 1,312	Raw (uncompressed Raw)**	11	23	Hi (uncompressed YCbCr-TIFF)	8	18	Hi (uncompressed RGB-TIFF)	5	12	Fine (approx. 1/4 compressed)	29	65	Normal (approx. 1/8 compressed)	58	128	Basic (approx. 1/16 compressed)	114	246
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	* 512MB and 1GB types can be used. **Compressed Raw mode also available.																									
<b>Shooting Modes</b>	1) Single frame shooting (S) mode: advances one frame for each shutter release; capture preview mode available 2) Continuous shooting (C) mode: approx. 3 frames per sec. (up to 9 consecutive shots) 3) Self-timer mode: time duration can be set 4) Playback mode: playback, menu setting 5) PC mode: data transfer via personal computer	2) Continuous shooting (C) mode: approx. 5 frames per sec. (up to 40 consecutive shots)																								
<b>White Balance</b>	1) Auto (TTL control with 1,005-pixel CCD), 2) Manual (6 settings with fine tuning), 3) Preset (3 settings)																									
<b>LCD Monitor</b>	2-in., 130,000-dot, low temp. polysilicon TFT LCD with white LED backlighting; backlight/brightness adjustment available																									
<b>Playback Menu</b>	1) Protect setting, 2) Hide setting, 3) NTSC/PAL switching, 4) Indication directory switching																									
<b>Playback Function</b>	1) 1 frame, 2) Thumbnail (4/9 segments), 3) Slide show, 4) Enlarged playback, 5) Histogram indication, highlight point display and focus confirmation indication																									
<b>Delete Function</b>	1) Card format, 2) All frames delete, 3) Selected frames delete																									
<b>Video Output</b>	NTSC or PAL (switchable)																									
<b>Interface</b>	IEEE1394 and RS-232C [GPS unit (not Nikon product) connection]																									
<b>Usable Lenses</b>	1) <b>D-type AF Nikkor:</b> All functions possible, 2) <b>D-type Manual-Focus Nikkor:</b> All functions except autofocus possible, 3) <b>AF Nikkor other than D-type:</b> All functions except 3D Color Matrix Metering and 3D Multi-Sensor Balanced Fill-Flash for D1-series possible, 4) <b>AI-P Nikkor:</b> All functions except 3D Color Matrix Metering, 3D Multi-Sensor Balanced Fill-Flash for D1 and autofocus possible, 5) <b>Non-CPU:</b> Usable in [A] or [M] mode Center-Weighted or Spot Metering; Electronic Rangefinder usable with lens with maximum aperture of f/5.6 or faster																									
<b>Picture Angle</b>	Approx. 1.5x focal length in 35mm [135] format equivalent																									
<b>Viewfinder</b>	Optical-type fixed-eye level pentaprism; built-in diopter adjustment (-3 to +1 m <sup>-1</sup> ); eyepiece shutter provided																									
<b>Eyepoint</b>	22mm (at -1.0 m <sup>-1</sup> )																									
<b>Focusing Screen</b>	B-type BriteView clear Matte screen III; interchangeable with optional E-type screen with grid for D1-series																									
<b>Viewfinder Frame Coverage</b>	Approx. 96%																									
<b>Viewfinder Magnification</b>	Approx. 0.8x with 50mm lens set to infinity and -1.0 m <sup>-1</sup>																									
<b>Viewfinder Information</b>	Focus indications, shutter speed, aperture, exposure mode, metering system, shutter speed lock, aperture lock, AE lock, electronic analog display, frame counter, ready-light, five sets of focus brackets (area)																									
<b>Reflex Mirror</b>	Automatic, instant-return type																									
<b>Lens Aperture</b>	Instant-return type, with depth-of-field preview button																									
<b>Autofocus</b>	TTL phase detection, Nikon Multi-CAM1300 autofocus module; Detection range: EV -1 to EV 19 (ISO 100 equivalent, at normal temperature)																									
<b>Lens Servo</b>	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																									
<b>Focus Area</b>	One of five focus areas can be selected																									
<b>AF Area Mode</b>	1) Single Area AF, 2) Dynamic AF (Dynamic AF Mode with Closest Subject Priority is available)																									
<b>Focus Lock</b>	Focus is locked by pressing [AE-L/AF-ON] button or lightly pressing shutter release button in (S) AF																									

	D1x	D1H
<b>Exposure Metering System</b>	TTL full-aperture exposure metering system; 1) 3D Color Matrix Metering with 1,005-pixel CCD 2) Center-Weighted Metering (75% of the meter's sensitivity concentrated on the 8mm dia. circle) 3) Spot Metering (4mm dia. circle, approx. 2% of entire frame)	
<b>Exposure Metering Range</b>	1) 3D Color Matrix Metering: EV 0-20 2) Center-Weighted Metering: EV 0-20 3) Spot Metering: EV 2-20 (at normal temperature, ISO 100 equivalent, f/1.4 lens)	
<b>Exposure Meter Coupling</b>	CPU and AI combined	
<b>Exposure Mode</b>	1) [P] Programmed Auto (Flexible Program possible), 2) [S] Shutter-Priority Auto, 3) [A] Aperture-Priority Auto, 4) [M] Manual; shutter speed/aperture adjustable in 1/2 or 1/3 EV steps	
<b>Exposure Compensation</b>	Exposure compensated in ±5 EV range in 1/2 or 1/3 EV steps	
<b>Auto Exposure Lock</b>	Detected exposure value locked by pressing [AE-L/AF-ON] button	
<b>Auto Exposure Bracketing</b>	Number of shots: two or three Compensation steps: 1/3, 1/2, 2/3 or 1 EV steps	
<b>Shutter</b>	Charge-coupled electronic and mechanical shutter; 30 to 1/16,000 sec. and Bulb	
<b>Sync Contact</b>	X-contact only; flash synchronization up to 1/500 sec.	
<b>Flash Control</b>	1) Automatic Balanced Fill-Flash controlled by five-segment TTL Multi Sensor: • 3D Multi-Sensor Balanced Fill-Flash for D1-series when used with SB-28DX/SB-50DX and D-type Nikkor lens • Multi-Sensor Balanced Fill-Flash when used with SB-28DX/SB-50DX and AF Nikkor other than D-type, AI-P Nikkor lens 2) AA (Auto Aperture)-type Flash available when used with SB-28DX/SB-50DX and lens with built-in CPU 3) Non-TTL Auto Flash with a Speedlight such as SB-28DX, 50DX, 28, 27, 22s, etc.	
<b>Flash Sync Mode</b>	1) Front-Curtain Sync (normal sync), 2) Red-Eye Reduction, 3) Red-Eye Reduction with Slow Sync, 4) Slow Sync, 5) Rear-Curtain Sync	
<b>Ready-light</b>	Lights up when flash fully charged with Speedlight SB-28DX, 50DX, 28, 27, 22s; blinks (3 sec. after flash) for full output warning	
<b>Accessory Shoe</b>	Standard ISO-type hot-shoe contact; safety lock provided	
<b>Sync Terminal</b>	Standard JIS terminal, lock screw provided	
<b>Self-timer</b>	Electronically controlled; timer duration: 2-20 sec.	
<b>Depth-of-field Preview Button</b>	Stop-down lens aperture by pressing depth-of-field preview button	
<b>LCD Panel Information</b>	<b>Top LCD panel:</b> Exposure value (shutter speed/aperture), exposure mode, exposure compensation, exposure compensation value, aperture/shutter speed lock, flash sync mode, focus area, exposure bracketing information, electronic analog display, battery power, CF Card confirmation, number of shots taken, number of shots remaining, frame number at playback battery power for built-in clock, date/time <b>Rear LCD panel:</b> Number of shots remaining, sensitivity, white balance mode, image quality mode, monochrome mode, CF Card status, Custom function, number of pixels (M/L; D1x only)	
<b>Remote Control</b>	Via 10-pin remote terminal	
<b>Power Requirements</b>	Ni-MH Battery Pack EN-4 (7.2V DC), Quick Charger MH-17 (12V DC)/16/15; AC Adapter EH-4 (100-240V AC)	
<b>Tripod Socket</b>	1/4 in. (JIS)	
<b>Custom Settings</b>	Can be selected on LCD	
<b>Dimensions (W x H x D)</b>	Approx. 157 x 153 x 85mm (6.2 x 6.1 x 3.4 in.)	
<b>Weight (without battery)</b>	Approx. 1.1kg (2.5 lbs.)	
<b>Standard Accessories*</b>	Neck Strap, Video Cable, "Nikon View" Browser Software	
<b>Optional Accessories</b>	Ni-MH Battery Pack EN-4, Quick Charger MH-17/16, AC Adapter EH-4, CompactFlash™ Cards, Speedlight SB-28DX/SB-50DX, IEEE1394 Cable SC-D1, Anti-fog Finder Eyepiece DK-15, "Nikon Capture" Control Software	

\*Standard 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.

### NIKON CORPORATION

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