Nikon

Professional Digital SLR Camera

D1

Nikon announces the new Nikon Professional Digital SLR D1

- **2.74-megapixel**, 23.7 x 15.6mm-size CCD for ultrahigh-definition (2,012 x 1,324 effective pixels) images
- **Superhigh-speed, high-quality image processing** with original Nikon algorithm designs
- **4.5 frames per second** shooting speed for up to **21** consecutive shots
- **3D Digital Matrix Image Control** (**3D Color Matrix Metering, TTL White Balance** and **Tone Compensation**) with 1,005-pixel CCD for superior overall picture quality
- **High-speed AF system** including **Dynamic AF** operation (same performance as F5 and F100)
- Exclusive top shutter speed **1/16,000 sec.** and flash sync up to **1/500 sec.**
- Operability rivaling Nikon F5 and F100 (two Command Dials, Custom Settings, and more)
- **3D Multi-Sensor Balanced Fill-Flash for D1** controlled by five-segment **TTL Multi Sensor** available with new Speedlight SB-28DX
- ISO equivalency 200, 400, 800 and 1,600
- Compatible with virtually any **F-mount Nikkor** lens (picture angle with D1 is equivalent to approx. **1.5**x focal length in 35mm [135] format)
- **Interchangeable Ni-MH Battery Pack EN-4** and dedicated **Quick Charger MH-16** (compatible with MH-15 for F100) (all optional)
- Lightweight, strong **magnesium** body; high resistance to penetration by water drops
- **CompactFlash™ Card (Type I/II)** and **IEEE1394** interface

Nikon Professional Digital SLR Camera D1 Specifications

Type of Camera Lens-interchangeable SLR-type digital camera

CCD 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

Image Size 2,000 x 1,312 pixels

Sensitivity ISO equivalency 200, 400, 800, 1,600

Storage ***System***: Digitally stored; JPEG (approx. 1/4, 1/8, 1/16 compressed), uncompressed (12-bit Raw*, 8-bit YCbCr-TIFF*, 8-bit RGB-TIFF), monochrome mode

* Optional software is needed to reproduce images; "Nikon Capture" for Raw/YCbCr-TIFF images, "Nikon View DX" for YCbCr-TIFF images.

Media: CompactFlash™ (CF) Card (Type I/II)

Modes and No. of frames (With EC-64CF 64MB CF Card):

Image quality mode	*EC-64CF 64MB CF Card*
Raw (uncompressed Raw)	Approx. 16
Hi (uncompressed YCbCr-TIFF)	Approx. 12
Hi (uncompressed RGB-TIFF)	Approx. 7
Fine (approx. 1/4 compressed)	Approx. 48
Normal (approx. 1/8 compressed)	Approx. 97
Basic (approx. 1/16 compressed)	Approx. 195

Shooting Modes 1) Single frame shooting (S) mode: advances one frame for each shutter release; capture preview mode available,
2) Continuous shooting (C) mode: approx. 4.5 frames per sec. (up to 21 consecutive shots)
3) Self-timer (Sf) mode: time duration can be set,
4) Playback (Pb) mode: playback, menu setting,
5) PC (Pc) mode: data transfer via personal computer

White Balance 1) Auto (TTL control with 1,005-pixel CCD), 2) Manual (six settings with 7-step fine tuning), 3) Preset

LCD Monitor 2-in., 120,000-dot, low temp. polysilicon TFT LCD; backlight/brightness adjustment available

Playback Function 1) 1 frame, 2) Thumbnail (9 segments), 3) Slide show, 4) Histogram indication & highlight point display

Delete Function 1) Card format, 2) All frames delete, 3) Selected frames delete

Video Output NTSC or PAL (switchable)

Interface IEEE1394

Exposure Mode 1) [P] Programmed Auto (Flexible Program possible),
2) [S] Shutter-Priority Auto,
3) [A] Aperture-Priority Auto,
4) [M] Manual

Usable Lenses 1) ***D-type AF Nikkor***: All functions possible,
2) ***D-type Nikkor other than AF***: All functions except autofocus possible,
3) ***AF Nikkor other than D-type***: All functions except 3D Color Matrix Metering and 3D Multi-Sensor Balanced Fill-Flash for D1 possible,
4) ***AI-P Nikkor***: All functions except 3D Color Matrix Metering, 3D Multi-Sensor Balanced Fill-Flash for D1 and autofocus possible,
5) ***Non-CPU***: 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

Note: When Non-CPU lenses are used, [A] mode is selected automatically for [P] or [S] mode, also Center-Weighted Metering is selected for 3D Color Matrix Metering.

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 +1 DP); eyepiece shutter provided

Eyepoint 22mm (at –1.0 DP)

Focusing Screen B-type BriteView clear Matte screen III; interchangeable with optional E-type screen with grid for F100

Viewfinder Frame Coverage Approx. 96%

Viewfinder Magnification Approx. 0.8x with 50mm lens set to infinity and –1.0 DP

Viewfinder Information 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)

Autofocus TTL phase detection, Nikon Multi-CAM1300 autofocus module; Detection range: EV –1 to EV 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 One of five focus areas can be selected

AF Area Mode 1) Single Area AF and
2) Dynamic AF (Dynamic AF Mode with Closest Subject Priority is available)

Focus Lock Focus is locked by pressing AF-L button or lightly pressing shutter release button in (**S**) AF

Exposure Metering System 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)

Exposure Metering Range 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)

Exposure Meter Coupling CPU and AI combined

Exposure Compensation Exposure compensated in ±5 EV range in 1/2 or 1/3 EV steps; the mark appears in viewfinder information and top LCD panel

Auto Exposure Lock Detected exposure value locked by pressing AE-L button

Auto Exposure Bracketing Number of shots: two or three; compensation steps: 1/3, 1/2, 2/3 or 1 steps

Shutter Charge-coupled electronic and mechanical shutters

Shutter Speeds 30 to 1/16,000 sec. and Bulb

Sync Contact X-contact only; flash synchronization up to 1/500 sec.

Flash Control 1) Automatic Balanced Fill-Flash controlled by five-segment TTL Multi Sensor:
• 3D Multi-Sensor Balanced Fill-Flash for D1 when used with SB-28DX and D-type Nikkor lens;
• Multi-Sensor Balanced Fill-Flash for D1 when used with SB-28DX and AF Nikkor other than D-type, AI-P Nikkor lens,
2) AA (Auto Aperture)-type Flash available when used with SB-28DX and Nikkor lens with built-in CPU,
3) Non-TTL Auto Flash with a Speedlight such as SB-28DX, 28, 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-28DX, 28, 27, 22s; blinks (3 sec. after flash) for full output warning

Accessory Shoe Standard ISO-type hot-shoe contact; safety lock provided

Sync Terminal Standard JIS terminal, lock screw provided

Self-timer Electronically controlled; timer duration: 2-20 sec.

Depth-of-field Preview Button Stop-down lens aperture by pressing depth-of-field preview button

Remote Control Via 10-pin remote terminal, IEEE1394 interface

Power Requirements Ni-MH Battery Pack EN-4 (7.2V DC), Quick Charger MH-16/15; AC Adapter EH-4 (100-240V AC)

Custom Settings #0] Custom settings: Specify the two setting combinations of A and B,
#1] Capture preview mode: Set to show captured image on LCD Monitor before sending image data to CF Card, #2] EV steps for exposure control,
#3] Bracketing order, #4] Autofocus activation,
#5] Anti-Vibration mode: Set to prevent effects of camera shake,
#6] Focus area selection, #7] AE lock, #8] Mirror-Up: Set to clean the CCD,
#9] Dynamic AF mode in (**S**) AF, #10] Dynamic AF mode in (**C**) AF,
#11] Auto Exposure/Flash Exposure Bracketing,
#12] Command Dial functions, #13] Exposure compensation settings,
#14] Center-Weighted Metering area: Change 8mm dia. circle to 6, 10, 13mm or average metering,
#15] Time delay for auto meter-switch-off,
#16] Self-timer duration, #17] LCD illumination,
#18] Auto power off of LCD Monitor: 20 sec., 1, 5 or 10 min.,
#19] Aperture setting during zooming,
#20] Shutter release indication via self-timer LED, #21] AE-L/AF-L button,
#22] Aperture selection: Change via Sub-Command Dial to lens' aperture ring,
#23] Edge enhancer: 1) Default, 2) Low, 3) High, 4) Non,
#24] Tone compensation: 1) Auto, 2) Normal, 3) Contrast -, 4) Contrast +, 5) Custom (with "Nikon Capture" Control Software),
#25] Shooting speed in (**C**) mode: Choose from 4.5, 3, 2, 1 or 0.5 fps.,
#26] Maximum number of consecutive shots in (**C**) mode: 1 to 21 shots,
#27] LCD monitor display mode: 1) Default, 2) Histogram, 3) Highlight point, 4) Highlight point with Histogram,
#28] Save Raw images, #29] Auto File Numbering mode,
#30] Select shooting mode when disconnected from personal computer in (**Pc**) mode: (**S**) mode or (**C**) mode

Dimensions (W x H x D) Approx. 157 x 153 x 85mm (6.2 x 6.1 x 3.4 in.)

Weight (without battery) Approx. 1.1kg (2.5 lbs.)

Standard Accessories** Neck Strap, Video Cable

Optional Accessories Ni-MH Battery Pack EN-4, Quick Charger MH-16, AC Adapter EH-4, CompactFlash™ Cards, Speedlight SB-28DX, IEEE1394 Cable SC-D1, Antifog Finder Eyepiece DK-15, "Nikon View DX" Browser Software, "Nikon Capture" Control Software

** Standard accessories may differ in each country or area.

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

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http://www.klt.co.jp/Nikon/

Printed in Japan Code No. 6CE41041 (9906-00)K

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