

FEATURES

D90 ENGINEERED FOR ARTISTRY UNLEASH YOUR POTENTIAL

- **12.3-megapixel DX-format CMOS imaging sensor** Coupled with Nikon's *EXPEED* image processing technologies and NIKKOR optics, breathtaking image fidelity is assured
- Continuous shooting as fast as 4.5 frames-per-second Combined with fast 0.15ms power-up and split-second 65ms shooting lag, dramatic action and decisive moments are captured easily
- D-Movie Mode Cinematic 24fps HD with sound Record cinematic-quality movie clips at up to 720p HD (1280 x 720 pixels) in Motion JPEG format, enhanced by NIKKOR interchangeable lens quality and versatility
- Low noise ISO sensitivity from 200 to 3200 High signal-to-noise components and design deliver exceptional performance, even at high ISO settings
- 3-inch super-density 920,000-dot color LCD monitor
- Built-in image sensor cleaning
- 11-point AF system with Face Priority
- One-button Live View
- Nikon 3D Color Matrix Metering II with Scene Recognition System
- Comprehensive exposure control
- Auto Active D-Lighting
- Durable, high precision shutter
- In-Camera Image Editing
- GPS geo-tagging (optional GP-1 required)
- Available packed with AF-S DX NIKKOR 18-105mm f/3.5-5.6G ED VR lens



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Nikon Digital SLR Camera D90 Specifications

Single-lens reflex digital camera Nikon F mount (with AF coupling and AF contacts) Approx. 1.5 x lens focal length (Nikon DX format) 12.3 million 23.6 x 15.8 mm CMOS sensor 12.2 million Image Sensor Cleaning, Image Dust Off reference data (optional Capture NX 2 required) 4,288 x 2,848 [L], 3,216 x 2,136 [M], 2,144 x 1,424 [S] • NEF (RAW) • JPEG: JPEG-Baseline compliant with fine (approx. 1:4), normal (approx. 1:8), or basic (approx. 1:6) compression • NEF (RAW) • NEF (RAW) • DEF (AWI) • DEF (GaW) • DEF (BAW) • DEF (BAW)
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(Exchangeable Image File Format for Digital Still Cameras), PictBridge Eye-level pentaprism single-lens reflex viewfinder
Eye-level pentaprism single-lens reflex viewfinder
Approx. 0.94 x (50mm f/1.4 lens at infinity; -1.0 m ⁻¹)
19.5 mm (-1.0 m ⁻¹)
-2 to +1 m ⁻¹
Type B BriteView Clear Matte screen Mark II with focus frame (framing grid can be
displayed)
Quick-return type
When depth-of-field preview button is pressed, lens aperture is stopped down to value
selected by user (A and M modes) or by camera (other modes)
Instant return, electronically controlled
See product brochure
Electronically controlled vertical-travel focal-plane shutter
1/4,000 to 30 s in steps of 1/3 or 1/2 EV, Bulb
X = 1/200 s; synchronizes with shutter at 1/200 s or slower
Single-frame, continuous low speed, continuous high speed, self-timer, delayed remote,
quick-response
Continuous high speed: up to 4.5 fps, continuous low speed: 1-4 fps
Can be selected from 2, 5, 10 and 20 s duration
TTL exposure metering using 420-pixel RGB sensor
 Matrix: 3D color matrix metering II (type G and D lenses); color matrix metering II (other
CPU lenses)
• Center-weighted: Weight of 75% given to 6-, 8- or 10-mm circle in center of frame
Spot: Meters 3.5-mm circle (about 2% of frame) centered on selected focus point
Matrix or center-weighted metering: 0-20 EV
Spot metering: 2-20 EV
СРИ
Auto modes (auto, auto [flash off]), Advanced Scene Modes (Portrait, Landscape, Sports,
Close-up, Night Portrait), programmed auto with flexible program (P), shutter-priority auto
(S), aperture-priority auto (A), manual (M)
±5 EV in increments of 1/3 or 1/2 EV
2 or 3 frames in steps of 1/3, 1/2, 2/3, 1 or 2 EV
Luminosity locked at detected value with AE-L/AF-L button
ISO 200 to 3200 in steps of 1/3 EV, can also be set to approx. 0.3, 0.7 or 1 EV (ISO 100
equivalent) below ISO 200, or to approx. 0.3, 0.7 or 1 EV (ISO 6400 equivalent) over ISO
3200, ISO sensitivity auto control available Can be selected from Auto, Extra high, High, Normal, Low or off
2 frames
2 11 dilles
Nikon Multi-CAM 1000 autofocus module with TTL phase detection, 11 focus points
(including 1 cross-type sensor) and AF-assist illuminator (range approx. 1 ft. 8 in9 ft. 10 in./
0.5-3 m)
-1 to +19 EV (ISO 100 equivalent, 68°F/20°C)
 Autofocus: Single-servo AF (AF-S); continuous-servo AF (AF-C); predictive focus tracking externationally extincted excerding to exhibit at the (AF-A).
tracking automatically activated according to subject status (AF-A)
Manual (M): Electronic rangefinder supported Can be calculated from 11 focus points
Can be selected from 11 focus points
Single-point AF, dynamic-area AF, auto-area AF, 3D-tracking (11 points) AF
Focus can be locked by pressing shutter-release button halfway (Single-servo AF) or by pressing AE-L/AF-L button

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Flash Built-in flash	Auto, Portrait, Close-up, Night Portrait modes: Auto flash with auto pop-up P, S, A, M: Manual pop-up with button release
Guide number	At ISO 200: Approx. 56/17, 59/18 with manual flash
(ft./m) at 68°F/20°C	 At ISO 100 equivalent: Approx. 39/12, 43/13 with manual flash
Flash control	 TTL: i-TTL balanced fill-flash and standard i-TTL flash for digital SLR using 420-pixel RGB sensor are available with built-in flash, SB-900, SB-800, SB-800 or SB-400 Aute areaced
	 Auto aperture: Available with SB-900, SB-800 and CPU lenses Non-TTL auto: Supported flash units include SB-900, SB-800, SB-28, SB-27 or SB-22s Range-priority manuai: Available with SB-900 and SB-800
Flash modes	Front curtain sync, slow sync, rear-curtain sync, red-eye reduction, red-eye reduction with slow sync
Flash compensation	-3 to +1 EV in increments of 1/3 or 1/2 EV
Flash bracketing Flash-ready indicator	2 or 3 frames in steps of 1/3, 1/2, 2/3, 1 or 2 EV Lights when built-in flash or SB-900, SB-800, SB-600, SB-400, SB-80DX, SB-28DX or SB-50DX is fully charged; blinks for 3 s after flash is fired at full output in i-TTL or auto construct and ender
Accessory shoe	aperture modes Standard ISO 518 hot-shoe contact with safety lock
Nikon Creative Lighting System (CLS)	Advanced Wireless Lighting supported with built-in flash, SB-900, SB-800 or SU-800 as commander and SB-900, SB-800, SB-600 or SB-R200 as remotes; 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 supporte with all CLS-compatible flash units
White balance	
White balance	Auto (TTL white-balance with main image sensor and 420-pixel RGB sensor); 12 manual modes with fine-tuning; color temperature setting; preset manual white balance
White balance bracketing	2 or 3 frames in steps of 1, 2 or 3
Live View	Face extends AF with even AF energy and AF
AF modes Focus	Face priority AF, wide area AF, normal area AF Contrast-detect AF anywhere in frame (camera selects focus point automatically when face priority AF is selected)
Movie	
Image size (pixels)	1,280 x 720/24 fps, 640 x 424/24 fps, 320 x 216/24 fps
File format Compression format Monitor	AVI Motion-JPEG, with monaural sound
LCD monitor	3-in., approx. 920k-dot (VGA), low-temperature polysilicon TFT LCD with 170° viewing angle, approx. 100% frame coverage, and brightness adjustment
Playback	
Playback function	Full-frame and thumbnail (4, 9 or 72 images or calendar) playback with playback zoom, movie playback, Pictmotion, slide show, histogram display, highlights, auto image rotation, and image comment (up to 36 characters)
Interface	
USB Audio video output	Hi-Speed USB Can be selected from NTSC and PAL; simultaneous playback from both the audio video
HDMI output Accessory terminal	output and on the LCD monitor available Type C HDMI connector; camera monitor turns off when HDMI cable is connected • Remote Cord MC-Dc2 (Optional) • GPS Unit GP-1 (Optional)
Supported languages Supported languages	Chinese (Simplified and Traditional), Danish, Dutch, English, Finnish, French, German,
Power source	Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish
Battery	One Rechargeable Li-ion Battery EN-EL3e
Battery pack	Multi-Power Battery Pack MB-D80 (optional) with one or two Rechargeable Li-ion Batte EN-EL3e, or six R6/AA-size alkaline, Ni-MH, lithium or nickel-manganese batteries (Battery Holder MS-D200 is required when using R6/AA-size batteries.)
AC adapter	AC Adapter EH-5a (optional)
Tripod socket Tripod socket	1/4 in. (ISO 1222)
Dimensions/Weight	Anney 5 2. 41. 2 0 in /120. 102 77
Dimensions (W x H x D) Weight	Approx.5.2 x 4.1 x 3.0 in./132 x 103 x 77 mm Approx. 1 lb. 6 oz./620 g without battery, memory card, body cap or monitor cover
Operating environment Temperature	32-104°F/0-40°C
Humidity	Less than 85% (no condensation)
Accessories	
Supplied accessories	Rechargeable Li-ion Battery EN-EL3e, Quick Charger MH-18a, Eyepiece Cap DK-5,) Rubber Eyecup DK-21, USB Cable UC-E4, Audio Video Cable EG-D2, Camera Strap AN-DC1, LCD Monitor Cover BM-10, Body Cap, Accessory Shoe Cover BS-1, Software Suite CD-ROM
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 Macintosh is a registered to The SD logo is a trademark 	
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• Images in viewfinders, on LCDs and monitors shown in this brochure are simulated.

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