Nikon D810A DLSR Camera

Type	
Type	Single-lens reflex digital camera
Lens mount	Nikon F mount (with AF coupling and AF contacts)
Effective angle of view	Nikon FX format
Effective pixels	
Effective pixels	36.3 million
Image sensor	
Image sensor	35.9 x 24.0 mm CMOS sensor
Total pixels	37.09 million
Dust-reduction system	Image sensor cleaning, Image Dust Off reference data (requires Capture NX-D software)
Storage	
Image size (pixels)	FX format (36x24): 7360 x 4912 (L), 5520 x 3680 (M), 3680 x 2456 (S) 1.2x (30x20): 6144 x 4080 (L), 4608 x 3056 (M), 3072 x 2040 (S) DX format (24x16): 4800 x 3200 (L), 3600 x 2400 (M), 2400 x 1600 (S) 5:4 (30x24): 6144 x 4912 (L), 4608 x 3680 (M), 3072 x 2456 (S) FX-format photographs taken in movie live view: 6720 x 3776 (L), 5040 x 2832 (M), 3360 x 1888 (S) DX-format photographs taken in movie live view: 4800 x 2704 (L), 3600 x 2024 (M), 2400 x 1352 (S) Note: Photographs taken in movie live view have an aspect ratio of 16:9; A DX-based format is used for photographs taken using the DX (24x16) 1.5x image area; an FX-based format is used for all other photographs
File format	NEF (RAW): 12 or 14 bit, lossless compressed, compressed or uncompressed; small size available (12-bit uncompressed only) TIFF (RGB)

	JPEG: JPEG-Baseline compliant with fine (approx. 1:4), normal (approx. 1:8) or basic (approx. 1:16) compression (Size priority); Optimal quality compression available NEF (RAW)+JPEG: Single photograph recorded in both NEF (RAW) and JPEG formats
Picture Control system	Can be selected from Standard, Neutral, Vivid, Monochrome, Portrait, Landscape, Flat; selected Picture Control can be modified; storage for custom Picture Controls
Storage media	SD (Secure Digital) and UHS-I compliant SDHC and SDXC memory cards; Type I CompactFlash memory cards (UDMA compliant)
Dual card slots	Either card can be used for primary or backup storage or for separate storage of NEF (RAW) and JPEG images; pictures can be copied between cards
File system	DCF 2.0, DPOF, Exif 2.3, PictBridge
Viewfinder	
Viewfinder	Eye-level pentaprism single-lens reflex viewfinder
Frame coverage	FX (36x24): Approx. 100% horizontal and 100% vertical 1.2x (30x20): Approx. 97% horizontal and 97% vertical DX (24x16): Approx. 97% horizontal and 97% vertical 5:4 (30x24): Approx. 97% horizontal and 100% vertical
Magnification	Approx. 0.7x (50 mm f/1.4 lens at infinity, -1.0 m^{-1})
Eyepoint	17 mm (-1.0 m^{-1}; from center surface of viewfinder eyepiece lens)
Diopter adjustment	-3 to $+1$ m^{-1}
Focusing screen	Type B BriteView Clear Matte Mark VIII screen with AF area brackets and framing grid
Reflex mirror	Quick return
Depth-of-field preview	Pressing Pv button stops lens aperture down to value selected by user (A, M and M* modes) or by camera (P and S modes)

Lens aperture	Instant return, electronically controlled

Lens

Compatible lenses	Compatible with AF NIKKOR lenses, including type G, E, and D lenses (some restrictions apply to PC lenses), DX lenses (using DX (24x16) 1.5x image area), AI-P NIKKOR lenses, and non-CPU AI lenses (exposure modes A, M and M* only); IX-NIKKOR lenses, lenses for the F3AF, and non-AI lenses cannot be used: The electronic rangefinder can be used with lenses that have a maximum aperture of f/5.6 or faster (the electronic rangefinder supports the 11 focus points with lenses that have a maximum aperture of f/8 or faster)

Shutter

Type	Electronically-controlled vertical-travel focal-plane mechanical shutter, electronic front-curtain shutter (in mirror up release mode)
Speed	1/8000 to 30 s in steps of 1/3, 1/2 or 1 EV, bulb, time, X250 M* mode: 4, 5, 8, 10, 15, 20, 30, 60, 120, 180, 240, 300, 600 or 900 seconds shutter speed, and Bulb and Time settings are available
Flash sync speed	X=1/250 s; synchronizes with shutter at 1/320 s or slower (flash range drops at speeds between 1/250 and 1/320 s)

Release

Release mode	S (single frame), CL (continuous low speed), CH (continuous high speed), Q (quiet shutter-release), QC (quite continuous shutter-release), Self-timer, MUP (mirror up)
Frame advance rate	With EN-EL15 batteries (FX/5:4) CL: Approx. 1 to 5 fps, CH: Approx. 5 fps, QC: Approx. 3 fps (DX/1.2x) CL: Approx. 1 to 6 fps, CH: Approx. 6 fps, QC: Approx. 3 fps Other power sources (FX/5:4) CL: Approx. 1 to 5 fps, CH: Approx. 5 fps, QC: Approx. 3 fps (1.2x) CL: Approx. 1 to 6 fps, CH: Approx. 6 fps, QC: Approx. 3 fps (DX) CL: Approx. 1 to 6 fps, CH: Approx. 7 fps, QC: Approx. 3 fps

Self-timer	2 s, 5 s, 10 s, 20 s; 1 to 9 exposures at intervals of 0.5, 1, 2 or 3 s
Exposure	
Metering	TTL exposure metering using 91K-pixel RGB sensor
Metering method	Matrix: 3D color matrix metering III (type G, E and D lenses); color matrix metering III (other CPU lenses); color matrix metering available with non-CPU lenses if user provides lens data Center-weighted: Weight of approx. 75% given to 12-mm circle in center of frame; diameter of circle can be changed to 8, 15 or 20 mm, or weighting can be based on average of entire frame (non-CPU lenses use 12-mm circle) Spot: Meters 4-mm circle (about 1.5% of frame) centered on selected focus point (on center focus point when non-CPU lens is used) Highlight-weighted: Available with type G, E and D lenses (equivalent to center-weighted when other lenses are used)
Range (ISO 100, f/1.4 lens, 20°C/68°F)	Matrix, center-weighted, or highlight-weighted metering: 0 to 20 EV Spot metering: 2 to 20 EV
Exposure meter coupling	Combined CPU and AI
Mode	Programed auto with flexible program (P); shutter-priority auto (S); aperture-priority auto (A); manual (M); Long-exposure manual (M*) mode
Exposure compensation	-5 to +5 EV in increments of 1/3, 1/2 or 1 EV
Exposure bracketing	2 to 9 frames in steps of 1/3, 1/2, 2/3 or 1 EV; 2 to 5 frames in steps of 2 or 3 EV
Exposure lock	Luminosity locked at detected value with AE-L/AF-L button
ISO sensitivity (Recommended Exposure Index)	ISO 200 to 12800 in steps of 1/3, 1/2 or 1 EV; can also be set to approx. 0.3, 0.5, 0.7 or 1 EV (ISO 100 equivalent) below ISO 200 or to approx. 0.3, 0.5, 0.7, 1 or 2 EV (ISO 51200 equivalent) above ISO 12800; auto ISO sensitivity control available
Active D-Lighting	Can be selected from auto, extra high, high, normal, low or off

ADL bracketing	2 frames using selected value for one frame or 3 to 5 frames using preset values for all frames
Focus	
Autofocus	Nikon Advanced Multi-CAM 3500FX autofocus sensor module with TTL phase detection, fine-tuning, 51 focus points (including 15 cross-type sensors; f/8 supported by 11 sensors), and AF-assist illuminator (range approx. 0.5 to 3 m/1 ft 8 in. to 9 ft 10 in.)
Detection range	-2 to +19 EV (ISO 100 equivalent, 20°C/68°F)
Lens servo	Autofocus (AF): Single-servo AF (AF-S); continuous-servo AF (AF-C); predictive focus tracking automatically activated according to subject status Manual focus (M): Electronic rangefinder can be used
Focus point	Can be selected from 51 or 11 focus points
AF-area mode	Single-point AF, 9-, 21- or 51-point dynamic-area AF, 3D-tracking, group-area AF, auto-area AF
Focus lock	Focus can be locked by pressing shutter-release button halfway (single-servo AF) or by pressing AE-L/AF-L button
Flash	
Built-in flash	Manual pop-up with button release and a guide number of approx. 12/39, 12/39 with manual flash (m/ft, ISO 100, 20°C/68°F)
Flash control	TTL: i-TTL flash control using 91K-pixel RGB sensor is available with built-in flash; i-TTL balanced fill-flash for digital SLR is used with matrix, center-weighted, and highlight-weighted metering, standard i-TTL flash for digital SLR with spot meteringg
Flash mode	Front-curtain sync, slow sync, rear-curtain sync, red-eye reduction, red-eye reduction with slow sync, slow rear-curtain sync, off; auto FP high-speed sync supported
Flash compensation	-3 to +1 EV in increments of 1/3, 1/2 or 1 EV
Flash bracketing	2 to 9 frames in steps of 1/3, 1/2, 2/3 or 1 EV; 2 to 5 frames in steps of 2 or 3 EV

Flash-ready indicator	Lights when built-in flash or optional flash unit is fully charged; blinks after flash is fired at full output
Accessory shoe	ISO 518 hot-shoe with sync and data contacts and safety lock
Nikon Creative Lighting System (CLS)	Nikon CLS supported; commander mode option available
Sync terminal	ISO 519 sync terminal with locking thread
White balance	
White balance	Auto (2 types), incandescent, fluorescent (7 types), direct sunlight, flash, cloudy, shade, preset manual (up to 6 values can be stored, spot white balance measurement available during live view), choose color temperature (2500 K to 10000 K); all with fine-tuning
White balance bracketing	2 to 9 frames in steps of 1, 2 or 3
Live View	
Live view mode	Live view photography (still images), movie live view (movies)
Lens servo	Autofocus (AF): Single-servo AF (AF-S); full-time servo AF (AF-F) Manual focus (M)
AF-area mode	Face-priority AF, wide-area AF, normal-area AF, subject-tracking AF
Autofocus	Contrast-detect AF anywhere in frame (camera selects focus point automatically when face-priority AF or subject-tracking AF is selected)
Movie	
Metering	TTL exposure metering using main image sensor
Metering method	Matrix, center-weighted, or highlight-weighted
Frame size (pixels) and frame rate	1920 x 1080; 60p (progressive), 50p, 30p, 25p, 24p 1280 x 720; 60p, 50p

	Actual frame rates for 60p, 50p, 30p, 25p, and 24p are 59.94, 50, 29.97, 25, and 23.976 fps respectively; all options support both high and normal image quality
File format	MOV
Video compression	H.264/MPEG-4 Advanced Video Coding
Audio recording format	Linear PCM
Audio recording device	Built-in or external stereo microphone; sensitivity adjustable
ISO sensitivity	Exposure modes P, S and A: Auto ISO sensitivity control (ISO 200 to Hi 2) with selectable upper limit Exposure mode M: Auto ISO sensitivity control (ISO 200 to Hi 2) available with selectable upper limit; manual selection (ISO 200 to 12800 in steps of 1/3, 1/2, or 1 EV); can also be set to approx. 0.3, 0.5, 0.7, 1, or 2 EV (ISO 51200 equivalent) above ISO 12800
Other movie options	Index marking, time-lapse photography
Monitor	
Monitor	8-cm/3.2-in., approx. 1229 k-dot (VGA; 640 x RGBW x 480 = 1,228,800 dots) TFT monitor with 170 ° viewing angle, approx. 100% frame coverage, and brightness adjustment
Playback	
Playback	Full-frame and thumbnail (4, 9 or 72 images) playback with playback zoom, movie playback, photo and/or movie slide shows, histogram display, highlights, photo information, location data display, auto image rotation
Interface	
USB	SuperSpeed USB (USB 3.0 Micro-B connector); connection to built-in USB port is recommended
HDMI output	Type C HDMI connector

Audio input	Stereo mini-pin jack (3.5-mm diameter; plug-in power supported)
Audio output	Stereo mini-pin jack (3.5-mm diameter)
Ten-pin remote terminal	Can be used to connect optional remote control, optional WR-R10 (requires WR-A10 Adapter) or WR-1 Wireless Remote Controller (M* mode not supported), GP-1/GP-1A GPS Unit, or GPS device compliant with NMEA0183 version 2.01 or 3.01 (requires optional MC-35 GPS Adapter Cord and cable with D-sub 9-pin connector)

Supported languages (may differ by country or area)

Supported languages	Arabic, Bengali, Bulgarian, Chinese (Simplified and Traditional), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hindi, Hungarian, Indonesian, Italian, Japanese, Korean, Marathi, Norwegian, Persian, Polish, Portuguese (Portugal and Brazil), Romanian, Russian, Serbian, Spanish, Swedish, Tamil, Telugu, Thai, Turkish, Ukrainian, Vietnamese

Power source

Battery	One EN-EL15 Rechargeable Li-ion Battery
Battery pack	Optional MB-D12 Multi-Power Battery Pack with one EN-EL15/EN-EL18a*/EN-EL18* Rechargeable Li-ion Battery or eight R6/AA-size alkaline, Ni-MH or lithium batteries * Available separately; Requires optional BL-5 Battery Chamber Cover
AC adapter	EH-5b AC Adapter; requires EP-5B Power Connector (available separately)

Tripod socket

Tripod socket	1/4 in. (ISO 1222)

Dimensions / weight

Dimensions (W x H x D)	Approx. 146 x 123 x 81.5 mm/5.8 x 4.9 x 3.3 in.
Weight	Approx. 980 g/2 lb 2.6 oz with battery and SD memory card but without body cap; approx. 880 g/1 lb 15.1 oz (camera body only)

Operating environment

Temperature	0 to 40°C/32 to 104°F
Humidity	85% or less (no condensation)

- PictBridge is a trademark.
- CompactFlash is a registered trademark of SanDisk Corporation.
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC.
- Products and brand names are trademarks or registered trademarks of their respective companies.