Type	
Type	Single-lens reflex digital camera
Lens mount	Nikon F mount (with AF coupling and AF contacts)
Effective angle of view	Nikon DX format; focal length in 35 mm [135] format equivalent to approx. 1.5x that of lenses with FX format angle of view
Effective pixels	
Effective pixels	24.2 million
Image sensor	
Image sensor	23.5 x 15.6 mm CMOS sensor
Total pixels	24.72 million
Dust-reduction system	Image sensor cleaning, Image Dust Off reference data (Capture NX-D software required)
Storage	
Image size (pixels)	DX (24x16) image area: 6000 x 4000 [L], 4496 x 3000 [M], 2992 x 2000 [S] 1.3x (18x12) image area: 4800 x 3200 [L], 3600 x 2400 [M], 2400 x 1600 [S] Photographs with image area of DX (24x16) taken with live view selector rotated to movie live view: 6000 x 3368 [L], 4496 x 2528 [M], 2992 x 1680 [S] Photographs with image area of 1.3x (18x12) taken with live view selector rotated to movie in live view: 4800 x 2696 [L], 3600 x 2024 [M], 2400 x 1344 [S]
File format	NEF (RAW): 12 or 14 bit, lossless compressed or compressed 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	Standard, Neutral, Vivid, Monochrome, Portrait, Landscape, Flat; selected Picture Control can be modified; storage for custom Picture Controls
Media	SD (Secure Digital) and UHS-I compliant SDHC and SDXC memory cards
Double card slot	Slot 2 can be used for overflow or backup storage or for separate storage of copies created using NEF+JPEG; 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	DX (24x16) image area: Approx. 100% horizontal and 100% vertical 1.3x (18x12) image area: Approx. 97% horizontal and 97% vertical
Magnification	Approx. 0.94x (50 mm f/1.4 lens at infinity, -1.0 m^{-1})
Eyepoint	19.5 mm (-1.0 m^{-1}; from center surface of viewfinder eyepiece lens)
Diopter adjustment	-2 to +1 m^{-1}
Focusing screen	Type B BriteView Clear Matte Mark II screen with AF area brackets (framing grid can be displayed)
Reflex mirror	Quick return
Depth-of-field preview	Pressing Pv button stops lens aperture down to value selected by user (A and M modes) or by camera (other 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) and DX lenses, AI-P NIKKOR lenses, and non-CPU AI lenses (A and M modes 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 center focus point with lenses that have a maximum aperture of f/8 or faster)
Shutter	
Type	Electronically controlled vertical-travel focal-plane shutter
Speed	1/8000 to 30 s in steps of 1/3 or 1/2 EV, bulb, time, X250
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 modes	S (single frame), CL (continuous low speed), CH (continuous high speed), Q (quiet shutter-release), Self-timer, MUP (mirror up)
Approximate frame advance rate	JPEG and 12-bit NEF (RAW) images recorded with DX (24x16) selected for image area: CL 1 to 6 fps, CH 6 fps JPEG and 12-bit NEF (RAW) images recorded with 1.3x (18x12) selected for image area: CL 1 to 6 fps, CH 7 fps 14-bit NEF (RAW) images recorded with DX (24x16) selected for image area: CL 1 to 5 fps, CH 5 fps 14-bit NEF (RAW) images recorded with 1.3x (18x12) selected for image area: CL 1 to 6 fps, CH 6 fps Maximum frame rate in live view is 3.7 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
Remote control modes (ML-L3)	Delayed remote, quick-response remote, remote mirror-up
Exposure	
Metering	TTL exposure metering using 2016-pixel RGB sensor

Metering method	Matrix: 3D color matrix metering II (type G, E and D lenses); color matrix metering II (other CPU lenses); color matrix metering available with non-CPU lenses if user provides lens data Center-weighted: Weight of approx. 75% given to 8-mm circle in center of frame; diameter of circle can be changed to 6, 10, or 13 mm, or weighting can be based on average of entire frame (non-CPU lenses use 8-mm circle) Spot: Meters circle with diameter of about 3.5 mm (about 2.5% of frame) centered on selected focus point (on center focus point when non-CPU lens is used)
Range (ISO 100, f/1.4 lens, 20°C/68°F)	Matrix or center-weighted metering: 0 to 20 EV Spot metering: 2 to 20 EV
Exposure meter coupling	Combined CPU and AI
Modes	Auto modes (auto; auto [flash off]); scene modes (portrait; landscape; child; sports; close up; night portrait; night landscape; party/indoor; beach/snow; sunset; dusk/dawn; pet portrait; candlelight; blossom; autumn colors; food); special effects modes (night vision; color sketch; miniature effect; selective color; silhouette; high key; low key); programmed auto with flexible program (P); shutter-priority auto (S); aperture-priority auto (A); manual (M); U1 (user settings 1); U2 (user settings 2)
Exposure compensation	Can be adjusted by -5 to +5 EV in increments of 1/3 or 1/2 EV in P, S, A, M, SCENE and night vision modes
Exposure lock	Luminosity locked at detected value with AE-L/AF-L button
ISO sensitivity (Recommended Exposure Index)	ISO 100 to 25600 in steps of 1/3 or 1/2 EV; in P, S, A, M modes, can also be set to approx. 1 or 2 EV (ISO 102400 equivalent; monochrome only) above ISO 25600; auto ISO sensitivity control available
Active D-Lighting	Auto, extra high, high, normal, low, off
Focus	
Autofocus	Nikon Advanced Multi-CAM 3500 II autofocus sensor module with TTL phase detection, fine-tuning, 51 focus points (including 15 cross-type sensors; f/8 supported by one

	sensor), and AF-assist illuminator (range approx. 0.5 to 3 m/1 ft 8 in. to 9 ft 10 in.)
Detection range	-3 to +19 EV (ISO 100, 20°C/68°F)
Lens servo	Autofocus (AF): Single-servo AF (AF-S); continuous-servo AF (AF-C); auto AF-S/AF-C selection (AF-A); predictive focus tracking activated automatically 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 modes	Single-point AF; 9-, 21- or 51-point dynamic-area AF, 3D-tracking, 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	Auto, portrait, child, close up, night portrait, party/indoor, pet portrait, color sketch: Auto flash with auto pop-up P, S, A, M, food: Manual pop-up with button release
Guide number	Approx. 12/39, 12/39 with manual flash (m/ft, ISO 100, 20°C/68°F)
Flash control	TTL: i-TTL flash control using 2016-pixel RGB sensor is available with built-in flash; i-TTL balanced fill-flash for digital SLR is used with matrix or center-weighted metering, standard i-TTL fill-flash for digital SLR with spot metering
Flash modes	Auto, auto with red-eye reduction, auto slow sync, auto slow sync with red-eye reduction, fill-flash, red-eye reduction, slow sync, slow sync with red-eye reduction, rear-curtain with slow sync, rear-curtain sync, off; auto FP high-speed sync supported
Flash compensation	-3 to +1 EV in increments of 1/3 or 1/2 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	AS-15 Sync Terminal Adapter (available separately)
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
Bracketing	
Bracketing types	Exposure, flash, white balance and ADL
Live view	
Live view modes	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 modes	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 or center-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; options support both ★high and normal image quality

	1920 x 1080; 60p and 50p are available only when 1.3x (18x12) is selected for image area in the movie shooting menu
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
Maximum length	29 min. 59 s (10 or 20 min. depending on frame size/rate and movie quality settings)
Other movie options	Index marking, time-lapse photography
Monitor	
Monitor	8-cm/3.2-in., approx. 1229 k-dot (VGA; 640 x 480 x 4 = 1,228,800 dots), TFT monitor with approx. 170° viewing angle, approx. 100% frame coverage and brightness adjustment
Playback	
Playback	Full-frame and thumbnail (4, 9 or 72 images or calendar) playback with playback zoom, movie playback, photo and/or movie slide shows, histogram display, highlights, photo information, location data display and auto image rotation
Interface	
USB	Hi-Speed USB; connection to built-in USB port is recommended
HDMI output	Type C HDMI connector
Accessory terminal	Wireless remote controllers: WR-1 and WR-R10, Remote cord: MC-DC2, GPS unit: GP-1/GP-1A (all available separately)
Audio input	Stereo mini-pin jack (3.5-mm diameter; plug-in power supported)
Audio output	Stereo mini-pin jack (3.5-mm diameter)

Wireless	
Standards	IEEE 802.11b, IEEE 802.11g
Operating frequency	2412 to 2462 MHz (channels 1 to 11)
Range (line of sight)	Approx. 30 m/98 ft (assumes no interference; range may vary with signal strength and presence or absence of obstacles)
Data rate	54 Mbps; maximum logical data rates according to IEEE standard; actual rates may differ
Authentication	Open system, WPA2-PSK
Wireless setup	Supports WPS
Access protocols	Infrastructure
NFC	
Operation	NFC Forum Type 3 Tag
Supported languages	
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-D15 Multi-Power Battery Pack with one EN-EL15 Rechargeable Li-ion Battery or six R6/AA-size alkaline, Ni-MH or lithium batteries
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. 135.5 x 106.5 x 76 mm/5.4 x 4.2 x 3.0 in.
Weight	Approx. 765 g/1 lb 11.0 oz with battery and memory card but without body cap; approx. 675 g/1 lb 7.9 oz (camera body only)
Operating environment	
Operating environment	Temperature: 0 to 40°C/32 to 104°F; humidity: 85% or less (no condensation)
Accessories	
Supplied accessories (may differ by country or area)	EN-EL15 Rechargeable Li-ion Battery, MH-25a Battery Charger, UC-E17 USB Cable, AN-DC1 BK Camera Strap, BF-1B Body Cap, DK-5 Eyepiece Cap, DK-23 Rubber Eyecup

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