

Type of camera	Digital camera with support for interchangeable lenses
Lens mount	Nikon Z mount
Compatible lenses	<ul style="list-style-type: none"> • Z mount NIKKOR lenses • F mount NIKKOR lenses with mount adapter; restrictions may apply
Effective pixels	20.9 million
Image sensor	23.5 × 15.7 mm CMOS sensor (Nikon DX format)
Total pixels	21.51 million
Dust-reduction system	Image Dust Off reference data (requires Capture NX-D)
Image size (pixels)	<ul style="list-style-type: none"> • DX (24×16) image area 5568 × 3712 (L: 20.7 million) 4176 × 2784 (M: 11.6 million) 2784 × 1856 (S: 5.2 million) • 1 : 1 (16×16) image area 3712 × 3712 (L: 13.8 million) 2784 × 2784 (M: 7.8 million) 1856 × 1856 (S: 3.4 million) • 16 : 9 (24×14) image area 5568 × 3128 (L: 17.4 million) 4176 × 2344 (M: 9.8 million) 2784 × 1560 (S: 4.3 million) • Photographs taken during movie recording at a frame size of 3840 × 2160: 3840 × 2160 • Photographs taken during movie recording at a frame size of 1920 × 1080: 1920 × 1080
File format	<ul style="list-style-type: none"> • NEF (RAW): 12 or 14 bit • JPEG: JPEG-Baseline compliant with fine (approx. 1 : 4), normal (approx. 1 : 8), or basic (approx. 1 : 16) compression • NEF (RAW)+JPEG: Single photograph recorded in both NEF (RAW) and JPEG formats
Picture Control System	Auto, Standard, Neutral, Vivid, Monochrome, Portrait, Landscape, Flat, Creative Picture Controls (Dream, Morning, Pop, Sunday, Somber, Dramatic, Silence, Bleached, Melancholic, Pure, Denim, Toy, Sepia, Blue, Red, Pink, Charcoal, Graphite, Binary, Carbon); selected Picture Control can be modified; storage for custom Picture Controls
Media	SD (Secure Digital) and UHS-I compliant SDHC and SDXC memory cards
File system	DCF 2.0, Exif 2.31, PictBridge
Viewfinder	0.99-cm/0.39-in. approx. 2360k-dot (XGA) OLED electronic viewfinder with color balance and auto and 7-level manual brightness controls
Frame coverage	Approx. 100% horizontal and 100% vertical
Magnification	Approx. 1.02× (50 mm lens at infinity, −1.0 m ^{−1})
Eyepoint	19.5 mm (−1.0 m ^{−1} ; from center surface of viewfinder eyepiece lens)
Diopter adjustment	−3 to +3 m ^{−1}
Eye sensor	Automatically switches between monitor and viewfinder displays
Monitor	8-cm/3.2-in., approx. 1040k-dot tilting TFT touch-sensitive LCD with 170° viewing angle, approximately 100% frame coverage, and 11-level manual brightness controls
Shutter type	Electronically controlled vertical-travel focal-plane mechanical shutter; electronic front-curtain shutter; electronic shutter
Shutter speed	1/4000 to 30 s (select from step sizes of 1/3 and 1/2 EV), bulb, time
Flash sync speed	X=1/200 s; synchronizes with shutter at 1/200 s or slower; Auto FP High-Speed sync supported
Release modes	Single frame, low-speed continuous, high-speed continuous, high-speed continuous (extended), self-timer

Approximate maximum frame advance rate (measured under Nikon-specified test conditions)	<ul style="list-style-type: none"> • Low-speed continuous: 1 to 4 fps • High-speed continuous: 5 fps • High-speed continuous (extended): 11 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 system	TTL exposure metering using camera image sensor
Exposure metering modes	<ul style="list-style-type: none"> • Matrix metering • Center-weighted metering: Weight of 75% given to 8 mm circle in center of frame; weighting can instead be based on average of entire frame • Spot metering: Meters 3.5 mm circle (about 2.5% of frame) centered on selected focus point • Highlight-weighted metering
Metering range (ISO 100, f/2.0 lens, 20°C/68°F)	−4 to +17 EV
Exposure modes	<ul style="list-style-type: none"> • Auto, P: programmed auto with flexible program, S: shutter-priority auto, A: aperture-priority auto, M: manual • 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 effect modes: night vision; VI super vivid; POP pop; photo illustration; toy camera effect; miniature effect; selective color; silhouette; high key; low key • U1 and U2: user settings
Exposure compensation	−5 to +5 EV (select from step sizes of 1/3 and 1/2 EV) available in P , S , A , M , SCN , and EFCT modes
Exposure lock	Luminosity locked at detected value
ISO sensitivity (Recommended Exposure Index)	ISO 100 to 51200 (select from step sizes of 1/3 and 1/2 EV); can also be set to approx. 1 or 2 EV (ISO 204800 equivalent) above ISO 51200; auto ISO sensitivity control available
Active D-Lighting	Can be selected from auto, extra high, high, normal, low or off
Multiple exposure	Add, average, lighten, darken
Other options	HDR (high dynamic range), photo mode flicker reduction
Autofocus	Hybrid phase-detection/contrast AF with AF assist
Detection range (single-servo AF, photo mode, ISO 100, f/2.0 lens, 20°C/68°F)	−4 to +19 EV •Without low-light AF: −2 to +19 EV
Lens servo	<ul style="list-style-type: none"> • Autofocus (AF): Single-servo AF (AF-S); continuous-servo AF (AF-C); AF mode auto-switch (AF-A; available only in photo mode); full-time AF (AF-F; available only in movie mode); predictive focus tracking • Manual focus (M): Electronic rangefinder can be used
Focus points (single-point AF, photo mode, DX image area)	209
AF-area modes	Pinpoint, single-point, and dynamic-area AF (pinpoint and dynamic-area AF available in photo mode only); wide-area AF (S); wide-area AF (L); auto-area AF
Focus lock	Focus can be locked by pressing shutter-release button halfway (single-servo AF) or by pressing (Om) button
Flash control	TTL: i-TTL flash control; i-TTL balanced fill-flash is used with matrix, center-weighted, and highlight-weighted metering, standard i-TTL fill-flash with spot metering
Flash modes	Fill flash, red-eye reduction, slow sync, slow sync + red-eye, rear-curtain sync, auto, auto + red-eye reduction, auto slow sync, auto slow sync + red-eye, flash off
Flash compensation	−3 to +1 EV (choose from step sizes of 1/3 and 1/2 EV) available in P , S , A , M , and SCN modes