

▼ Type

Type	Single-lens reflex digital camera
Lens Mount	Nikon F bayonet mount

▼ Image Sensor

Picture Angle	Nikon DX format
Effective Pixels (Megapixels)	24.1 million
Sensor Size	23.5 mm x 15.6 mm
Image Sensor Format	DX
Image Sensor Type	CMOS
Total Pixels	24.71 million
Dust-reduction system	Image sensor cleaning
Dust-Off Reference Photo	Yes
Image Area (pixels)	DX-format (L) 6,000 x 4,000 (M) 4,494 x 3,000 (S) 2,992 x 2,000 1.3X Crop Mode (L) 4,800 x 3,200 (13.5 MP) (M) 3,600 x 2,400 (8.6 MP) (S) 2,400 x 1,600 (3.8 MP) Photographs In Movie Live View (16:9) (L) 6,000 x 3,368 (20.2 MP) (M) 4,496 x 2,528 (11.4 MP) (S) 2,992 x 1,680 (5.0 MP) (L) 4,800 x 2,696 (12.9 MP) (M) 3,600 x 2,024 (7.3 MP) (S) 2,400 x 1,344 (3.2 MP)

▼ File System

File Format Still Images	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 NEF (RAW): Lossless compressed, compressed 12 or 14 bit
Storage Media	SD SDHC SDXC
Card Slot	2 Secure Digital (SD)
File System	Compliant with DCF (Design Rule for Camera File System) 2.0 DPOF (Digital Print Order Format)

## ▼ Viewfinder

Viewfinder	Eye-level Pentaprism Single-Lens Reflex Viewfinder
Viewfinder Frame Coverage	100% Horizontal 100% Vertical (Approx.)
Viewfinder Magnification	0.94x (Approx.)
Viewfinder Eyepoint	19.5mm ( $-1.0\text{m}^{-1}$ )
Viewfinder Diopter Adjustment	$-2.0$ to $+1.0\text{m}^{-1}$
Focusing Screen	Type B BriteView Clear Matte Mark II screen
Reflex Mirror	Quick-return type
Mirror Lock Up	Yes

## ▼ Lens

Lens Aperture	Instant-return type
Depth-of-field Control	Yes
Lens Compatibility at a Glance***	AF-S or AF lenses fully compatible Metering with AI lenses
Compatible Lenses	AF NIKKOR, including type G and D lenses (some restrictions apply to PC Micro-NIKKOR lenses) and DX lenses. AI-P NIKKOR lenses, and non-CPU AI lenses (exposure modes A and M only). Electronic rangefinder can be used with lenses that have a maximum aperture of f/5.6 or faster (the electronic rangefinder supports the center 1 focus point with lenses that have a maximum aperture of f/8 or faster). IX NIKKOR lenses, lenses for the F3AF, and non-AI lenses cannot be used.

## ▼ Shutter

Shutter Type	Electronically controlled vertical-travel focal-plane
Shutter Speed	1/8000 to 30 sec. in steps of 1/3 or 1/2 EV Bulb
Fastest Shutter Speed	1/8000 sec.
Slowest Shutter Speed	30 sec.
Flash Sync Speed	Up to 1/250 sec. Synchronizes with shutter at 1/320s or slower
Bulb Shutter Setting	Yes
Shutter Release Modes	Continuous low-speed [CL] mode; 1-6 frames per second Continuous high-speed [CH] mode; 6 frames per second

	Interval timer photography supported Mirror-up [Mup] mode Quiet Shutter Release Self-timer Mode Single-frame [S] mode
Continuous Shooting Options	DX-format CH: Up to 6 frames per second CL: Up to 1-6 frames per second 1/3X Crop Mode CL: Up to 1-6 frames per second
Top Continuous Shooting Speed at full resolution	6 frames per second
Self-timer	2, 5, 10, 20 sec.; 1 to 9 exposures <i>Timer duration electronically controlled</i>
▼ Exposure	
Exposure Metering System	TTL exposure metering using 2,016-pixel RGB sensor
Metering Method	Center-weighted: Weight of 75% given to 8 mm circle in center of frame Matrix: 3D color matrix metering II (type G and D lenses); color matrix metering II (other CPU lenses) Spot: Meters 3.5 mm circle (about 2.5% of frame) centered on selected focus point
Metering Range	0 to 20 EV (3D color matrix or center-weighted metering) 2 to 20 EV (Spot metering at ISO 100 equivalent, f/1.4 lens at 20°C/68°F)
Exposure Meter Coupling	CPU AI
Exposure Modes	Aperture-Priority (A) Manual (M) Programmed auto with flexible program (P) Shutter-Priority Auto (S)
Scene Modes	Autumn Colors Beach / Snow Blossom Candlelight Child Close-up Dusk / Dawn Food Landscape Night Landscape Night Portrait Party / Indoor Pet Portrait Portrait Sports Sunset
Exposure Compensation	+5 EV in increments of 1/3 or 1/2 EV
Exposure Bracketing	2 to 5 frames in steps of 1/3, 1/2, 2/3, 1, 2, or 3 EV
Exposure Lock	Yes
Picture Control	Landscape Monochrome Neutral Portrait Standard User Defined 1-4

## ▼ Sensitivity

ISO Sensitivity	ISO 100 - 6400 Hi-1 (ISO 12,800) Hi-2 (ISO 25,600)
Lowest Standard ISO Sensitivity	100
Highest Standard ISO Sensitivity	6400
Highest Expanded ISO Sensitivity	Hi-2 (ISO 25,600 equivalent)
Expanded ISO Sensitivity Options	Hi-1 (ISO 12,800 equivalent) Hi-2 (ISO 25,600 equivalent)
Long Exposure Noise Reduction	Yes
High ISO Noise Reduction	Low Normal High Off
Active D-Lighting	Auto Extra High High Normal Low Off
D-Lighting Bracketing	2-3 frames 2 frames using selected value for one frame or 3 frames using preset values for all

## ▼ Focus/Autofocus

Single-point AF Mode	Yes
Dynamic AF Mode	Number of AF points: 9, 21, 51 and 51 (3D-tracking)
Auto-area AF Mode	Yes
Autofocus System	Nikon Multi-CAM 3500DX autofocus sensor module with TTL phase detection
Detection Range	-2 to 19 EV (ISO 100, 68°F/20°C)
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 (MF): Electronic rangefinder can be used
Focus Point	Can be selected from 51 or 11 focus points
AF-area Mode	9, 21 or 51 point Dynamic-area AF Auto-area AF Single-point AF 3D-tracking (51 points)

<b>Focus Lock</b>	Focus can be locked by pressing AE-L/AF-L button Focus can be locked by pressing shutter-release button halfway (single-servo AF)
<b>Focus Modes</b>	Auto AF-S/AF-C selection (AF-A) Continuous-servo (AF-C) Face-Priority AF available in Live View only and D-Movie only Full-time Servo (AF-A) available in Live View only and D-Movie only Manual (M) with electronic rangefinder Normal area Single-servo AF (AF-S) Wide area
<b>Maximum Autofocus Areas/Points</b>	51
<b>Autofocus Sensitivity</b>	-2 to +19 EV (ISO 100, 20°C/68°F)
<b>Autofocus Fine Tune</b>	Yes
<b>▼ Flash</b>	
<b>Built-in Flash</b>	Yes
<b>Flash Bracketing</b>	2 to 3 frames in steps of 1/3, 1/2, 2/3, 1 or 2 EV
<b>Built-in Flash Distance</b>	Approx. 12/39, 12/39 with manual flash (m/ft, ISO 100, 20 °C/68 °F)
<b>X-Sync Speed</b>	1/250
<b>Top FP High Speed Sync</b>	Up to 1/8000
<b>Flash Control</b>	TTL: i-TTL flash control using 2,016-pixel RGB sensor is available with built-in flash and SB-910, SB-900, SB-800, SB-700, SB-600, or SB-400; i-TTL balanced fill-flash for digital SLR is used with matrix and center-weighted metering, standard i-TTL flash for digital SLR with spot metering
<b>Flash Sync Modes</b>	Auto Auto FP High-Speed Sync supported Auto with red-eye reduction Auto slow sync Auto slow sync with red-eye reduction Fill-flash Front-curtain sync (normal) Rear-curtain sync Red-Eye reduction Red-Eye reduction with slow sync Slow sync
<b>Flash Compensation</b>	-3 to +1 EV in increments of 1/3 or 1/2 EV
<b>Flash-ready Indicator</b>	Lights when built-in flash or optional flash unit is fully charged; flashes after flash is fired at full output
<b>Accessory Shoe</b>	Yes
<b>Nikon Creative Lighting System (CLS)</b>	Advanced Wireless Lighting supported with SB-910, SB-900, SB-800, or SB-700 as a master flash and SB-600 or SB-R200 as remotes, or SU-800 as commander Built-in flash can serve as master flash in commander mode 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 supported with all CLS-compatible flash units
<b>Flash Sync Terminal</b>	Sync Terminal Adapter AS-15 (available separately)

## ▼ White Balance

White Balance	Auto Choose color temperature (2500K–10000K) Cloudy Direct Sunlight Flash Fluorescent (7 types) Incandescent Preset Manual Shade
White Balance Bracketing	3 shots in steps of 1

## ▼ Live View

Live View Shooting	Photography Live View Mode Movie Live View Mode
Live View Lens servo	Autofocus (AF): Single-servo AF (AF-S); full-time-servo AF (AF-F) Manual focus (MF)
Live View AF-area mode	Face-priority AF Wide-area AF Normal-area AF Subject-tracking AF
Live View Autofocus	Contrast-detect AF anywhere in frame (camera selects focus point automatically when face-priority AF or subject-tracking AF is selected)
Live View Scene Auto Selector	Auto mode Auto (flash off) mode

## ▼ Movie

Movie Metering	TTL exposure metering using main image sensor
Movie Maximum recording time	20 minutes at highest quality 29 minutes 59 seconds at normal quality
Movie File Format	MOV
Movie Video Compression	H.264/MPEG-4 Advanced Video Coding
Movie Audio recording format	Linear PCM
Movie	Full HD 1,920x1,080 / 60i Full HD 1,920x1,080 / 50i Full HD 1,920x1,080 / 30p Full HD 1,920x1,080 / 25p Full HD 1,920x1,080 / 24p HD 1,280x720 / 60p HD 1,280x720 / 50p
Movie Audio	Built-in microphone, stereo External stereo microphone (optional) Microphone sensitivity can be adjusted

## ▼ Monitor

Monitor Size	3.2 in. diagonal
Monitor Resolution	1,228,800 Dots
Monitor Type	Wide Viewing Angle TFT-LCD
Monitor Angle of View	170 -degree wide-viewing angle
Monitor Adjustments	Brightness, 3 levels Brightness control using ambient brightness sensor
Virtual Horizon Camera Indicator	Yes

### ▼ Playback

Playback Functions	Auto Image Rotation Full-Frame and Thumbnail (4, 9, or 72 images or calendar) Highlights Histogram Display Image Comment Movie Playback Main Slide Show Playback with Zoom Slideshow
In-Camera Image Editing	Color Balance Color Outline Color Sketch D-Lighting Edit Movie Filter Effects Fisheye Image Overlay Miniature Effect Monochrome NEF (RAW) Processing Perspective Control Quick Retouch Red-Eye Correction Resize Selective Color Side-by-Side Comparison Straighten Trim
Image Comment	Yes

### ▼ Interface

Interface	Accessory Terminal: Remote Cord: MC-DC2 (available separately); GPS unit: GP-1 (available separately) HDMI output: Type C mini-pin HDMI connector Hi-speed USB Stereo Microphone Input WR-1 and WR-R10 wireless remote controller (available separately)
Wi-Fi Functionality	Eye-Fi Compatible WU-1a Wireless Mobile Adapter UT-1 Communication Unit + WT-5A Wireless Transmitter
GPS	GP-1 GPS unit GP-1A GPS unit

Save/Load Camera settings	Yes
▼ Menus	
My Menu	Yes with customization
Recent Settings	Yes
Supported Languages	Arabic Bengali Brazilian Portuguese Chinese (Simplified and Traditional) Czech Danish Dutch English Finnish French German Greek Hindi Hungarian Indonesian Italian Japanese Korean Norwegian Persian Polish Portuguese Romanian Russian Spanish Swedish Tamil Thai Turkish Ukrainian Vietnamese
Date, Time and Daylight Savings Time Settings	Yes
World Time Setting	Yes
▼ Power	
Battery / Batteries	EN-EL15 Lithium-ion Battery
Battery Life (shots per charge)	950 shots (CIPA)
AC Adapter	EH-5b AC Adapter; requires EP-5B Power Connector (available separately)
Battery Charger	MH-25 Quick Charger
▼ Miscellaneous	
Tripod Socket	1/4 in.
Approx. Dimensions (Width x Height x Depth)	5.3 in. (135.5 mm) x 4.2 in. (106.5 mm) x 3.0 in. (76 mm)

Approx. Weight	23.8 oz. (675 g) <i>camera body only</i>
Operating Environment	0–40 °C (+32–104 °F)