Type

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

Image Sensor

Picture Angle	Nikon DX format
Effective Pixels (Megapixels)	24.2 million
Sensor Size	23.5 mm x 15.6 mm
Image Sensor Format	DX
Image Sensor Type	CMOS
Total Pixels	24.72 million
Dust-reduction system	Image sensor cleaning
Dust-Off Reference Photo	Yes
Image Area (pixels)	DX-format (L) 6,000 x 4,000 (M) 4,496 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) Photographs Taken In Movie Live View Using The 1.3X Crop (16:9): (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) 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	Compliant with DCF (Design Rule for Camera File System) 2.0 DPOF (Digital Print Order Format) EXIF 2.3 (Exchangeable Image File Format for Digital Still Cameras) PictBridge

Viewfinder

Viewfinder	Eye-level Pentaprism Single-Lens Reflex Viewfinder
Viewfinder Frame Coverage	DX (24x16): 100% Horizontal and 100% Vertical (Approx.) 1.3x (18x12): 97% Horizontal and 97% Vertical (Approx.)

Viewfinder Magnification	0.94x (50 mm f/1.4 lens at infinity, −1.0 m−1) (Approx.)
Viewfinder Diopter Adjustment	-2.0 to +1.0m⁻¹
Focusing Screen	Type B BriteView Clear Matte Mark II with AF Area Brackets (grid lines can be displayed)
Reflex Mirror	Quick-return type
Mirror Lock Up	Yes

▾ Lens

Lens Aperture	Instant-return type Electronically Controlled
Depth-of-field Control	Pressing Pv button stops lens aperture down to value selected by user (A and M modes) or by camera (other modes)
Compatible Lenses	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 (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, Time, X250
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 (flash range drops at speeds between 1/250 and 1/320s)
Bulb Shutter Setting	Yes
Shutter Release Modes	Continuous low-speed [CL] mode Continuous high-speed [CH] mode 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 CH: Up to 7 frames per second 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 at intervals of 0.5, 1, 2, or 3 sec. *Timer duration electronically controlled*

▾ 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. 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) 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 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) Auto Auto (flash off) Manual (M) Programmed auto with flexible program (P) Scene Modes Shutter-Priority (S) U2 (user setting 2)
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 Special Effects Mode (Night Vision, Color Sketch, Miniature Effect, Selective Color, Silhouette, High Key, Low Key)
Exposure Compensation	±5 EV in increments of 1/3 or 1/2 EV in P, S, A, and M, SCENE,and Night Portrait modes
Exposure Bracketing	9 frames in steps of 1/3 or 1/2 EV
Exposure Lock	Yes
Picture Control	Flat Landscape Monochrome Neutral Portrait Standard User-customizable Settings Vivid

▾ Sensitivity

ISO Sensitivity	ISO 100 - 25,600
Lowest Standard ISO Sensitivity	100
Highest Standard ISO Sensitivity	25,600
Highest Expanded ISO Sensitivity	Hi-1BW (ISO 51,200 equivalent) Hi-2BW (ISO 102,400 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 frames

▼ 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	51 focus points (including 15 cross-type sensors; f/8 supported by 1 sensor) AF-assist illuminator (range approx. 0.5-3 m/1 ft. 8 in.-9 ft. 10 in.) Finetuning Nikon Advanced Multi-CAM 3500FX II autofocus sensor module with TTL phase detection
Detection Range	-3 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)
Focus Lock	Focus can be locked by pressing AE-L/AF-L button Focus can be locked by pressing shutter-release button halfway (single-servo AF)
Focus Modes	Auto AF-S/AF-C selection (AF-A) Continuous-servo (AF-C) Face-Priority AF available in Live View only Full-time Servo (AF-A) available in Live View only Manual (M) with electronic rangefinder Normal area Single-servo AF (AF-S) Wide area
Maximum Autofocus Areas/Points	51
Autofocus Sensitivity	-3 to +19 EV (ISO 100, 20°C/68°F)
Autofocus Fine Tune	Yes

▼ Flash

Built-in Flash	Yes
Flash Bracketing	2 to 3 frames in steps of 1/3, 1/2, 2/3, 1 or 2 EV
Built-in Flash Distance	Approx. 12/39, 12/39 with manual flash (m/ft, ISO 100, 20 °C/68 °F)
X-Sync Speed	1/250
Top FP High Speed Sync	Up to 1/8000
Flash Control	TTL: i-TTL flash control using 2,016-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 Sync Modes	Auto Auto FP High-Speed Sync supported Auto with red-eye reduction Auto slow sync Auto slow sync with red-eye reduction Fill-flash Rear-curtain sync Rear-curtain with slow sync Red-Eye reduction Red-Eye reduction with slow sync Slow sync Off

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; flashes after flash is fired at full output
Accessory Shoe	Yes
Nikon Creative Lighting System (CLS)	Advanced Wireless Lighting supported with SB-910, SB-900, SB-800, SB-700 or SB-500 as a master flash or SU-800 as commander; Flash Color Information Communication supported with all CLS-compatible flash units
Flash Sync Terminal	Sync Terminal Adapter AS-15 (available separately)

▾ White Balance

White Balance	Auto (2 types) 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)

▾ Movie

Movie Metering	TTL exposure metering using main image sensor
Movie Maximum recording time	10 minutes at 1080 50/60p high quality setting (1.3x image area only) 20 minutes at 1080 50/60p normal quality setting (1.3x image area only) 20 minutes at 1080 30/25/24p high quality setting, 29 minutes 59 seconds at 1080 30/25/24p normal quality setting 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 / 60 fps (1.3x image area only) Full HD 1,920x1,080 / 50 fps (1.3x image area only) Full HD 1,920x1,080 / 30 fps Full HD 1,920x1,080 / 25 fps Full HD 1,920x1,080 / 24 fps HD 1,280x720 / 60 fps HD 1,280x720 / 50 fps
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, 12, or 72 images or calendar) Highlights Histogram Display Image Comment Location Display Movie Playback Movie Slideshow Photo Information Playback with Zoom Slideshow
In-Camera Image Editing	Color Balance Color Outline Color Sketch D-Lighting Distortion Control 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-1A (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	Yes (Built-in)
GPS	GP-1 GPS unit GP-1A GPS unit
Save/Load Camera settings	Yes

▾ Menus

Total Custom Settings	54
My Menu	Yes
Recent Settings	Yes

Supported Languages	Arabic Bengali Brazilian Portuguese Bulgarian Chinese (Simplified and Traditional) Czech Danish Dutch English Finnish French German Greek Hindi Hungarian Indonesian Italian Japanese Korean Marathi Norwegian Persian Polish Portuguese Romanian Russian Serbian Spanish Swedish Tamil Telugu 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)	1,110 shots (CIPA) Movies: Approx. 80 minutes of HD footage
AC Adapter	EH-5b AC Adapter; requires EP-5B Power Connector (available separately)
Battery Charger	MH-25a Quick Charger

▾ Miscellaneous

Tripod Socket	1/4 in.
Approx. Dimensions (Width x Height x Depth)	5.4 in. (135.5 mm) x 4.2 in. (106.5 mm) x 3.0 in. (76 mm)
Approx. Weight	23.9 oz. (675 g) *camera body only*
Operating Environment	0–40 °C (+32–104 °F)