Type

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

Image Sensor

Picture Angle	Nikon DX format (Effective picture angle 1.5x [Approx.] conversion factor)
Effective Pixels	24.2 million
Sensor Size	23.2 mm x 15.4 mm
Image Sensor Format	DX
Image Sensor Type	CMOS
Total Pixels	24.7 million
Dust-reduction system	Image sensor cleaning
Image Area (pixels)	DX-format (L) 6,016 x 4,000 (M) 4,512 x 3,000 (S) 3,008 x 2,000

File System

File Format Still Images	Compressed 12-bit NEF (RAW) 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
Storage Media	SD SDHC SDXC
Card Slot	1 Secure Digital (SD)
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)

Viewfinder

Viewfinder	Eye-level Pentamirror Single-Lens Reflex viewfinder
Viewfinder Frame Coverage	95% Horizontal (Approx.)
Viewfinder Magnification	0.78x (Approx.)
Viewfinder Eyepoint	18mm ($-1.0m^{-1}$)
Viewfinder Diopter Adjustment	-1.7 to $+0.5m^{-1}$
Focusing Screen	Type B BriteView Clear Matte Mark VII screen
Reflex Mirror	Quick-return type
Mirror Lock Up	Yes (for image sensor cleaning)

Mirror Lock Up | Yes (for image sensor cleaning)

Lens

Lens Aperture	Instant-return type
Lens Compatibility at a Glance*	AF-S Lens Required for Autofocus
Compatible Lenses	AF NIKKOR for F3AF not Supported. AF-S, AF-I: All Functions Supported. AI-P NIKKOR: All Functions Supported Except Autofocus and 3D Color Matrix Metering II. Electronic rangefinder can be used if Maximum Aperture is f/5.6 or Faster. IX NIKKOR Lenses Cannot be Used. Non-CPU: Autofocus not supported. Can be used in mode M, but exposure meter does not function. Other AF NIKKOR: All Functions Supported Except autofocus and 3D Color Matrix Metering II. Type G or D AF NIKKOR: All Functions Supported Except Autofocus. Type D PC NIKKOR: All Functions Supported Except Autofocus and some Shooting Modes.

Shutter

Shutter Type	Electronically controlled vertical-travel focal-plane
Shutter Speed	1/4000 to 30 sec.
Fastest Shutter Speed	1/4000 sec.
Slowest Shutter Speed	30 sec.
Flash Sync Speed	Up to 1/200 sec.
Shutter Release Modes	Continuous Delayed remote Quick Response Remote Mode Quiet shutter-release Self-timer Mode Single-frame [S] mode
Frame Advance Rate	Up to 4 fps (manual focus, mode M or S, shutter speed 1/250 sec or faster, and other settings at default values)
Top Continuous Shooting Speed at full resolution	4 frames per second
Self-timer	2, 5, 10, 20 sec. *Timer duration electronically controlled*

Exposure

Exposure Metering System	TTL exposure metering using 420-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 (Matrix or center-weighted metering at ISO 100 equivalent, f/1.4 lens, at 20°C/68°F) 2 to 20 EV (Spot metering at ISO 100 equivalent, f/1.4 lens at 20°C/68°F)
Exposure Meter Coupling	CPU
Exposure Modes	Aperture-Priority Auto (A) Auto

Auto (flash off)
Manual (M)
Programmed Auto with flexible Program (P)
Shutter-Priority Auto (S)

Scene Modes	Auto Auto [Flash Off] Child Close-up Landscape Night Portrait Portrait Sports
Exposure Compensation	±5 EV in increments of 1/3EV
Exposure Lock	Luminosity locked at detected value with AE-L/AF-L button
Picture Control	Landscape Monochrome Neutral Portrait Selected Picture Control can be Modified Standard Vivid

▾ Sensitivity

ISO Sensitivity	ISO 100 -6400 Hi-1 (ISO 12,800)
Lowest Standard ISO Sensitivity	100
Highest Standard ISO Sensitivity	6400
Highest Expanded ISO Sensitivity	1 EV above ISO 6400 (ISO 12800 equivalent)
Expanded ISO Sensitivity Options	1 EV above ISO 6,400 (ISO 12,800 equivalent) Auto ISO sensitivity control available
High ISO Noise Reduction	Low Normal High Off
Active D-Lighting	On Off

▾ Focus/Autofocus

Single-point AF Mode	Yes
Dynamic AF Mode	Number of AF points: 11 (3D-tracking)
Auto-area AF Mode	Yes
Autofocus System	Nikon Multi-CAM 1000 autofocus sensor module with TTL phase detection
Detection Range	-1 to 19 EV (ISO 100, 68°F/20°C)
	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 11 focus 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 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 available in Live View and D-Movie only Predictive focus tracking activated automatically according to subject status Single-servo AF (AF-S) Wide area available in Live View and D-Movie only
Maximum Autofocus Areas/Points	11
Autofocus Sensitivity	-1 to +19 EV (ISO 100, 20°C/68°F)

▾ Flash

Built-in Flash	Yes
X-Sync Speed	1/200
Flash Control	TTL: i-TTL flash control using 420-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
Flash Sync Modes	Front-curtain sync (normal) Rear-curtain sync Red-Eye reduction Red-Eye reduction with slow sync Slow sync
Flash Compensation	-3 to +1 EV in increments of 1/3 EV
Flash-ready Indicator	Lights when built-in flash or optional flash unit such as SB-910, SB-900, SB-400, SB-80DX, SB-28DX or SB-50DX is fully charged
Accessory Shoe	Yes
Nikon Creative Lighting System (CLS)	CLS Supported

▾ White Balance

White Balance	Auto Cloudy Direct Sunlight Flash Fluorescent (7 types) Incandescent Preset Manual Shade

▾ Live View

Live View Shooting	Yes
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 min.
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 / 30 fps Full HD 1,920x1,080 / 25 fps Full HD 1,920x1,080 / 24 fps HD 1,280x720 / 50 fps VGA 640x424 / 30 fps VGA 640x424 / 25 fps
Movie Audio	Built-in microphone, monaural Optional external stereo mini-pin jack (3.5mm diameter) Microphone sensitivity can be adjusted

▾ Monitor

Monitor Size	3.0 in. diagonal
Monitor Resolution	921,000 Dots
Monitor Type	Wide Viewing Angle TFT-LCD
Monitor Angle of View	160-degree wide-viewing angle

▾ Playback

Playback Functions	Auto Image Rotation Full-Frame and Thumbnail (4, 9, or 72 images or calendar) Highlights Histogram Display Image Comment Movie Playback Playback with Zoom Slideshow
In-Camera Image Editing	Color Balance Color Outline Color Sketch D-Lighting Distortion Control Filter Effects Fisheye Image Overlay Miniature Effect Monochrome NEF (RAW) Processing Perspective Control Quick Retouch

Quick Retouch
Red-Eye Correction
Resize
Selective Color
Straighten
Trim

Interface

Interface	Accessory Terminal: Remote Cord: MC-DC2 (available separately); GPS unit: GP-1 (available separately) Audio input: Stereo mini-pin jack (3.5-mm diameter) HDMI output: Type C mini-pin HDMI connector Hi-speed USB Video Output: NTSC, PAL
Wi-Fi Functionality	Eye-Fi Compatible
GPS	GP-1 GPS unit

Menus

Recent Settings	Yes
Supported Languages	Arabic Brazilian Portuguese Chinese (Simplified and Traditional) Czech Danish Dutch English Finnish French German Greek Hindi Hungarian Indonesian Italian Japanese Korean Norwegian Polish Portuguese Romanian Russian Spanish Swedish Thai Turkish Ukrainian
Date, Time and Daylight Savings Time Settings	Yes
World Time Setting	Yes

Power

Battery / Batteries	One EN-EL14a Rechargeable Li-ion Battery or EN-EL14 Rechargeable Li-ion Battery
Battery Life (shots per charge)	540 shots (CIPA)
AC Adapter	EH-5b AC Adapter; requires EP-5A Power Connector (available separately)
Battery Charger	MH-24 Quick Charger

▾ Miscellaneous

Tripod Socket	1/4 in.
Approx. Dimensions (Width x Height x Depth)	5.0 in. (125 mm) x 3.8 in. (96 mm) x 3.1 in. (76.5 mm)
Approx. Weight	16 oz. (455 g) *camera body only*
Operating Environment	0–40 °C (+32–104 °F)