▼ 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	14.2 million
Sensor Size	23.1 mm x 15.4 mm
Image Sensor Format	DX
Image Sensor Type	CMOS
Total Pixels	14.8 million
Dust-reduction system	Image sensor cleaning Airflow Control System Image Dust Off reference data (optional Capture NX 2 software required)
Image Area (pixels)	DX-format (L) 4,608 x 3,072 (M) 3,456 x 2,304 (S) 2,304 x 1,536

▼ 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) 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 2.21 (Exchangeable Image File Format for Digital Still Cameras) PictBridge

▼ Viewfinder

Viewfinder	Eye-level Pentamirror Single-Lens Reflex viewfinder
Viewfinder Frame Coverage	95% Horizontal 95% Vertical (Approx.)
Viewfinder Magnification	0.80x (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

Focusing Screen	Type B BriteView Clear Matte Mark VII screen
Reflex Mirror	Quick-return type
Mirror Lock Up	Yes (for image sensor cleaning)

Lens

Lens Aperture	Instant-return type Electronically Controlled
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: Can be used in mode M, but Exposure Meter does not Function; Electronic Rangefinder can be used if Maximum Aperture is f/5.6 or Faster. 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. in steps of 1/3 EV Bulb
Fastest Shutter Speed	1/4000 sec.
Slowest Shutter Speed	30 sec.
Flash Sync Speed	Up to 1/200 sec. Synchronizes with shutter at 1/200s or slower
Shutter Release Modes	Continuous Quiet Shutter Release Self-timer Mode Single-frame [S] mode
Frame Advance Rate	Up to 3 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	3 frames per second
Self-timer	2 sec. 10 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 modes (auto, auto [flash off]) Manual (M) Programmed Auto with flexible Program (P) Scene Modes Shutter-Priority Auto (S)
Scene Modes	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

▾ Sensitivity

ISO Sensitivity	ISO 100 -3200 Hi-1 (ISO 6400) Hi-2 (ISO 12,800)
Lowest Standard ISO Sensitivity	100
Highest Standard ISO Sensitivity	3200
Highest Expanded ISO Sensitivity	2 EV above ISO 3200 (ISO 12800 equivalent)
Expanded ISO Sensitivity Options	1 EV above ISO 3,200 (ISO 6,400 equivalent) 2 EV above ISO 3,200 (ISO 12,800 equivalent) Approx. Auto ISO sensitivity control available
Active D-Lighting	On Off

▾ Focus/Autofocus

Picture Control	Landscape Monochrome Neutral Portrait Selected Picture Control can be Modified Standard Vivid
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)
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

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 Full-time Servo (AF-A) available in Live View only Normal area Single-servo AF (AF-S) Wide area
Maximum Autofocus Areas/Points	11

▼ Flash

Built-in Flash	Yes
Flash Control	i-TTL Balanced fill-flash, standard i-TTL flash for digital SLR
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	Blinks for 3 sec. after flash is fired at full output 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	ISO 518 hot-shoe with sync and ata contacts and safety lock
Nikon Creative Lighting System (CLS)	CLS Supported
Flash Sync Terminal	Sync Terminal Adapter AS-15 (available separately)

▼ 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)

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 Frame size (pixels) and frame rate	640 x 424 (24p): 24 fps (23.976 fps) 1280 x 720 (25p): 25 fps 1280 x 720 (24p): 24 fps (23.976 fps) 1280 x 720 (30p): 30 fps (29.97 fps) 1920 x 1080 (24p): 24 fps (23.976 fps)
Movie Maximum recording time	10 min.
Movie File Format	MOV
Movie Audio recording format	Linear PCM
Movie Audio recording device	Built-in monaural microphone
Movie	HD 1,920x1,080 / 24 fps HD 1,280x720 / 30 fps HD 1,280x720 / 24 fps VGA 640x424 / 30 fps Movie with sound
Movie Audio	Built-in microphone, monaural

▼ Monitor

Monitor Size	3.0 in. diagonal
Monitor Resolution	230,000 Dots
Monitor Type	Wide Viewing Angle TFT-LCD

▼ Playback

| Playback Functions | Auto Image Rotation
Calendar
Full Frame
Highlight Point Display
Histogram Display
Image Comment
Movie Playback
Slideshow
Thumbnail (4, 9 or 72 images)
Zoom
Highlights |
| In-Camera Image Editing | Before and After
Color Outline
D-Lighting
Edit Movie
Filter Effects
Fisheye
Image Overlay
Miniature Effect
Monochrome
NEF (RAW) Processing
Perspective Control
Quick Retouch |

Red-Eye Correction
Small Pic
Straighten
Trim
Color Balance
Distortion Control

▼ 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 Video Output: NTSC, PAL
GPS	GP-1 GPS unit

▼ Menus

Supported Languages	Chinese (Simplified and Traditional) Czech Dutch English Finnish French German Italian Japanese Korean Norwegian Polish Portuguese Russian Swedish Turkish Spanish

▼ Power

Battery / Batteries	One EN-EL14a Rechargeable Li-ion Battery or EN-EL14 Rechargeable Li-ion Battery
Battery Life (shots per charge)	550 shots (CIPA)
AC Adapter	EH-5a AC Adapter

▼ Miscellaneous

Tripod Socket	1/4 in.
Approx. Dimensions (Width x Height x Depth)	4.9 in. (124.46 mm) x 3.8 in. (96.52 mm) x 2.9 in. (73.66 mm)
Approx. Weight	16 oz. (455 g) *camera body only*
Operating Environment	32 to 104°F (0 to 40°C) Less than 85% (no condensation)