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Type

- Single-lens reflex digital camera

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Lens mount

- Nikon F mount (with AF contacts)

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Effective angle of view

- Nikon DX format; focal length equivalent to approx. 1.5x that of lenses with FX format angle of view

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Image sensor format

- DX

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Image sensor type

- CMOS

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Sensor size

- 23.5 mm x 15.6 mm

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Total pixels

- 24.78 million

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Dust-reduction system

- Image Dust Off reference data (Capture NX-D software required)

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Effective pixels

- 24.2 million

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Image size (pixels)

- (L) 6000 x 4000 ( 24.0 million) (M) 4496 x 3000 ( 13.5 million) (S) 2992 x 2000 ( 6.0 million)

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File format

- NEF (RAW): 12 bit, compressed 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

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Picture Control system

- Standard, Neutral, Vivid, Monochrome, Portrait, Landscape, Flat ; selected Picture Control can be modified

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Media

- SD, SDHC (UHS-I compliant), SDXC (UHS-I compliant)

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Card slot

- 1 Secure Digital (SD) card

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File system

- DCF 2.0, Exif 2.3, PictBridge

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#### Viewfinder

- Eye-level pentamirror single-lens reflex viewfinder

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#### Frame coverage

- Approx. 95% horizontal and 95% vertical

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#### Magnification

- Approx. 0.85 x (50 mm f/1.4 lens at infinity,  $-1.0\text{ m}(*1)$ )

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#### Eyepoint

- 18 mm ( $-1.0\text{ m}(*1)$ ); from center surface of viewfinder eyepiece lens)

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#### Diopter adjustment

- $-1.7$  to  $+0.5\text{ m}(*1)$

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#### Focusing screen

- Type B BriteView Clear Matte Mark VII screen

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#### Reflex mirror

- Quick return

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#### Lens aperture

- Instant return, electronically controlled

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#### Autofocus support

- Autofocus is available with AF-P and type E and G AF-S lenses.

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#### Type

- Electronically-controlled vertical-travel focal-plane shutter

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#### Speed

- 1/4000 to 30 s in steps of 1/3 EV; Bulb; Time

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#### Flash sync speed

- X=1/200 s; synchronizes with shutter at 1/200 s or slower

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#### Modes

- S (single frame), Continuous, QC (quiet continuous shutter-release), Self-timer

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#### Approximate frame advance rate

- Up to 5 fps Note: Frame rates assume manual focus, manual or shutter-priority auto exposure, a shutter speed of 1/250 s or faster, and other settings at default values.

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#### Self-timer

- 2 s, 5 s, 10 s, 20 s; 1 to 9 exposures

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#### Metering system

- TTL exposure metering using 420-pixel RGB sensor

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#### Metering method

- Matrix metering: 3D color matrix metering II Center-weighted metering: Weight of 75% given to 8-mm circle in center of frame Spot metering: Meters 3.5-mm circle (about 2.5% of frame) centered on selected focus point

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#### Range

- (ISO 100, f/1.4 lens, 20 °C/68 °F) Matrix or center-weighted metering: 0 to 20 EV Spot metering: 2 to 20 EV

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#### Exposure meter coupling

- CPU

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#### Mode

- Auto modes (auto; auto, flash off); programmed auto with flexible program (P); shutter-priority auto (S); aperture-priority auto (A); manual (M); scene modes (portrait; sports; close up; night portrait); special effects modes (night vision; super vivid; pop; photo illustration; toy camera effect; miniature effect; selective color; silhouette; high key; low key)

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#### Exposure compensation

- Can be adjusted by -5 to +5 EV in increments of 1/3 EV in P, S, A, M, scene, and night vision modes

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### Exposure lock

- Luminosity locked at detected value with AE-L/AF-L button

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### ISO sensitivity (Recommended Exposure Index)

- ISO 100 to 25600 in steps of 1 EV Auto ISO sensitivity control available

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### Active D-Lighting

- On, off

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### Autofocus system

- Nikon Multi-CAM 1000 autofocus sensor module with TTL phase detection, 11 focus points (including one cross-type sensor), and AF-assist illuminator (range approx. 0.5 to 3m/1 ft 8 in. to 9 ft 10 in.)

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### Detection range

- -1 to +19 EV (ISO 100, 20 °C/68 °F)

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### Lens servo

- 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

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### Focus point

- 11 Can be selected from 11 focus points

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#### AF-area mode

- Single-point AF, dynamic-area AF, auto-area AF, 3D-tracking (11 points)

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#### Focus lock

- Focus can be locked by pressing shutter-release button halfway (single-servo AF) or by pressing AE-L/AF-L button

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#### Built-in flash

- Auto, portrait, close up, night portrait, super vivid, pop, photo illustration, toy camera effect: Auto flash with auto pop-up P, S, A, M: Manual pop-up with button release

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#### Guide number

- Approx. 7/22, 8/26 with manual flash (m/ft, ISO 100, 20 °C/68 °F)

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#### Control

- TTL: i-TTL flash control using 420-pixel RGB sensor is available with built-in flash; 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

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#### Mode

- Auto, auto with red-eye reduction, auto slow sync, auto slow sync with red-eye reduction, fill-flash, red-eye reduction, slow sync, slow sync with red-eye reduction, rear-curtain with slow sync, rear-curtain sync, off

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#### Flash compensation

- Can be adjusted by -3 to +1 EV in steps of 1/3 EV in P, S, A, M, and scene modes

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#### Flash-ready indicator

- Lights when built-in flash or optional flash unit is fully charged; flashes after flash is fired at full output

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#### Accessory shoe

- ISO 518 hot-shoe with sync and data contacts and safety lock

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#### Nikon Creative Lighting System (CLS)

- i-TTL flash control, optical Advanced Wireless Lighting, Color Information Communication, AF-assist for multi-area AF

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#### Sync terminal

- AS-15 sync terminal adapter (available separately)

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#### White balance

- Auto, incandescent, fluorescent (7 types), direct sunlight, flash, cloudy, shade, preset manual, all except preset manual with fine-tuning

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#### Lens servo

- Autofocus (AF): Single-servo AF (AF-S); full-time-servo AF (AF-F) Manual focus (MF)

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#### AF-area mode

- Face-priority AF, Wide-area AF, Normal-area AF, Subject-tracking AF

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### Autofocus

- Contrast-detect AF anywhere in frame (camera selects focus point automatically when face-priority AF or subject-tracking AF is selected)

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### Automatic scene selection

- Available in auto and auto, flash off modes

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### Metering system

- TTL exposure metering using main image sensor

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### Metering mode

- Matrix

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### Frame size (pixels) and frame rate

- 1920 x 1080; 60p (progressive), 50p, 30p, 25p, 24p 1280 x 720; 60p, 50p Actual frame rates for 60p, 50p, 30p, 25p, and 24p are 59.94, 50, 29.97, 25, and 23.976 fps respectively; options support both high and normal image quality

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### File format

- MOV

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### Video compression

- H.264/MPEG-4 Advanced Video Coding

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### Audio recording format

- Linear PCM

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Audio recording device

- Built-in monaural microphone; sensitivity adjustable

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ISO sensitivity

- ISO 100 to 25600

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Monitor size

- 7.5 -cm ( 3 -in.) diagonal

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Monitor type

- TFT LCD with 170 ° viewing angle, approx. 100% frame coverage, and brightness adjustment

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Monitor resolution

- Approx. 921 k-dot (VGA)

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Playback

- Full-frame and thumbnail (4, 9, or 72 images or calendar) playback with playback zoom, playback zoom cropping, playback face zoom, movie playback, photo and/or movie slide shows, histogram display, highlights, photo information, location data display, auto image rotation, picture rating, and image comment (up to 36 characters)

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USB connector

- Hi-Speed USB with Micro-USB connector; connection to built-in USB port is recommended
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HDMI output connector
- Type C HDMI connector
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Communication protocols
- Bluetooth Specification Version 4.1
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Operating frequency
- Bluetooth: 2402 to 2480 MHz Bluetooth Low Energy: 2402 to 2480 MHz
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Maximum output power
- 1.2 dBm (EIRP)
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Range (line of sight)
- Approximately 10 m (32 ft) without interference; range may vary with signal strength and presence or absence of obstacles
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Battery
- One EN-EL14a rechargeable Li-ion battery
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AC adapter
- EH-5c/EH-5b AC adapter; requires EP-5A power connector (available separately)

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Tripod socket

- 1/4-in. (ISO 1222)

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Dimensions (W x H x D)

- Approx. 124 x 97 x 69.5 mm ( 4.9 x 3.9 x 2.8 in.)

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Weight

- Approx. 415 g ( 14.7 oz ) with battery and memory card but without body cap; approx. 365 g/12.9 oz (camera body only)

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Operating environment

- Temperature: 0 °C to 40 °C (+32 °F to 104 °F) Humidity: 85% or less (no condensation)