

Tech Specs



Effective Pixels

20.9 million



Sensor Size

23.5 mm x 15.7 mm

Image Sensor Format DX



Storage Media

SD (Secure Digital) and UHS-I compliant SDHC and SDXC memory cards



ISO Sensitivity

ISO 100 -

51,200 in steps of 1/3 EV

Can also be set to approx. 1 EV above ISO 51200 (ISO 102400 equivalent) or to approx. 2 EV above ISO 51200 (ISO 204800 equivalent) Auto ISO sensitivity control available



Movie

4K UHD

3,840 ×

2,160

/30p/25p/24p

Full HD 1,920 x 1,080

/120p/100p/60p/50p/30p

Actual frame

rates for

120p, 100p,

60p, 50p,

30p, 25p,

and 24p are

119.88, 100,

59.94, 50,

29.97, 25,

and 23.976

fps

respectively

Quality

selection

(normal/m)

available at all sizes

except 3840

× 2160, 1920

× 1080

120p/100p,

and 1920 ×

1080 slow-

motion, when

quality is

fixed at m



Monitor Size
3.0 in. diagonal



Approx. Dimensions
(Width x Height x Depth)
5.1 in. (128 mm) x 2.9 in. (73.5 mm) x 2.4 in. (59.5 mm)

Monitor Type
Vari-angle TFT touch-sensitive LCD with 170° viewing angle, approximately 100% frame coverage
Color balance and 11-level manual brightness controls



Approx. Weight
12.4 oz. (350 g)



Battery / Batteries
One EN-EL25 rechargeable Li-ion battery

Type

Type	Digital camera with support for interchangeable lenses
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Lens Mount

Nikon Z mount

Image Sensor

Effective Pixels	20.9 million
Sensor Size	23.5 mm x 15.7 mm
Image Sensor Format	DX
Image Sensor Type	CMOS sensor
Total Pixels	21.51 million
Dust-Reduction System	Image Dust Off reference data (NX Studio software required)
Image Area (pixels)	DX-format (L) 5,568 x 3,712 (M) 4,176 x 2,784 (S) 2,784 x 1,856 1:1 (16 x 16) (L) 3,712 x 3,712 (M) 2,784 x 2,784 (S) 1,856 x 1,856 16:9 (36 x 20) (L) 5,568 x 3,128 (M) 4,176 x 2,344 (S) 2,784 x 1,560 Photographs taken during movie recording at a frame size of 3,838 x 3,840 x 2,160 Photographs taken during movie recording at other frame 1,920 x 1,080

File System

File Format Still Images	NEF (RAW): 12 or 14 bit 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 (Secure Digital) and UHS-I compliant SDHC and SDXC memory cards
File System	DCF 2.0 Exif 2.31

Viewfinder

Viewfinder	None
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Shutter

Shutter Type	Electronically-controlled vertical-travel focal-plane mechanical shutter; electronic front-curtain shutter; electronic shutter
Shutter Speed	1/4000 – 30 sec. (step of 1/3 EV), bulb, time
Flash Sync Speed	Up to: X=1/200 sec.; synchronizes with shutter at 1/200 sec. or slower; Auto FP High-Speed sync supported
Top Continuous Shooting Speed at Full Resolution	11 frames per second
Top Continuous Shooting Speeds	11 frames per second

Exposure

Exposure Metering System	TTL metering using camera image sensor
Metering Range	Spot metering: -4 to +17 EV
Exposure Compensation	-5 – +5 EV, Increment of 1/3 EV
Exposure Lock	Luminosity locked at detected value
Picture Control	Auto Flat Landscape Monochrome Neutral Portrait Standard Vivid Creative Picture Controls: (Dream, Morning, Pop, Sunday, Somber, Dramatic, Silence, Bleached, Melancholic, Pure, Denim, Toy, Sepia, Blue, Red, Pink, Charcoal, Graphite, Binary, Carbon) Selected Picture Control can be modified Storage for custom Picture Controls
Multiple Exposure	Yes Add Average Lighten Darken

Sensitivity

ISO Sensitivity	ISO 100 - 51,200 in steps of 1/3 EV Can also be set to approx. 1 EV above ISO 51200 (ISO 102400 equivalent) or to approx. 2 EV above ISO 51200 (ISO 204800 equivalent)
Active D-Lighting	Auto ISO sensitivity control available

Can be selected from:

Auto
Extra High
High
Normal
Low
Off

Active D-Lighting Bracketing

Yes

Focus/Autofocus

Autofocus System

Hybrid phase-detection/contrast AF

Detection Range

-4.5 to +19 EV (without low-light AF: -3 to +19 EV)
Measured in photo mode at ISO 100 and a temperature of 20 °C/68 °F using single-servo AF (AF-S) and a lens with a maximum aperture of f/1.8

Lens Servo

Autofocus (AF): Single-servo AF (AF-S); continuous-servo AF (AF-C); AF mode auto-switch (AF-A; available only in photo mode); full-time AF (AF-F; available only in movie mode); predictive focus tracking

Focus Point

Manual focus (M): Electronic rangefinder can be used

209 (single-point AF)

Number of focus points available in photo mode with single-point AF selected for AF-area mode and DX selected for image area

AF-Area Mode

Pinpoint

Single-Point

Dynamic-area AF

Wide-area AF (S)

Wide-area AF (L)

Wide-area AF (L-people)

Wide-area AF (L-animals)

Auto-area AF

Auto-area AF (people)

Auto-area AF (animals)

Focus Lock

Yes

Flash

Flash Control

TTL: i-TTL flash control; i-TTL balanced fill-flash is used with matrix, center-weighted, and highlight-weighted metering, standard i-TTL fill-flash with spot metering

Flash Sync Modes

Front-curtain sync

Rear-curtain sync

Red-eye reduction

Red-eye reduction with slow sync

Slow sync

Off

Flash-ready Indicator

Lights when optional flash unit is fully charged; flashes as underexposure warning after flash is fired at full output

Nikon Creative Lighting System (CLS)

Accessory Shoe

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

i-TTL flash control, optical Advanced Wireless Lighting, FV lock, Color Information Communication, Auto FP High-Speed Sync

White Balance

White Balance

Auto (3 types)
Choose color temperature (2,500 K–10,000 K)
Cloudy
Direct sunlight
Flash
Fluorescent (3 types)
Incandescent
Natural light auto
Preset manual (up to 6 values can be stored), all except choose color temperature with fine-tuning
Shade
Yes

White Balance Bracketing

Movie

Movie Metering

TTL exposure metering using main image sensor

Movie Maximum Recording Time

Up to 125 minutes

Movie File Format

MOV
MP4

Movie Video Compression

H.264/MPEG-4 Advanced Video Coding

Movie Audio Recording Format

Linear PCM
AAC

Movie

4K UHD 3,840 × 2,160 /30p/25p/24p
Full HD 1,920 × 1,080 /120p/100p/60p/50p/30p/25p/24p
Actual frame rates for 120p, 100p, 60p, 50p, 30p, 25p, and 24p are 119.88, 100, 59.94, 50, 29.97, 25, and 23.976 fps respectively
Quality selection (normal/m) available at all sizes except 3840 × 2160, 1920 × 1080 120p/100p, and 1920 × 1080 slow-motion, when quality is fixed at m
Built-in stereo or external microphone with attenuator option; sensitivity can be adjusted
Auto ISO sensitivity control (ISO 100 to 25,600)
M: Manual selection (ISO 100 to 25,600 in steps of 1/3 or 1/2 EV); auto ISO sensitivity control (ISO 100 to 25,600) available with selectable upper limit
Auto ISO sensitivity control (ISO 100–25600)

Movie Audio

Movie ISO

Movie Active D-Lighting	Can be selected from: Auto Extra High High Normal Low Off
Time Code	Yes
Movie e-VR	Yes
Movie HDMI Output	Yes
Movie Focus Peaking	Yes
Movie Highlight Display (Zebras)	Yes
Time-Lapse Movie	Yes
AF for Movie	Yes

Monitor

Monitor Size	3.0 in. diagonal
Monitor Resolution	1040 k dots
Monitor Type	Vari-angle TFT touch-sensitive LCD with 170° viewing angle, approximately 100% frame coverage Color balance and 11-level manual brightness controls

Playback

Playback Functions	Full-frame and thumbnail (4, 9, or 72 images or calendar) Highlights Histogram Display Location Data Display Movie Playback Photo and/or Movie Slide Shows Photo Information Picture Rating Playback with Playback Zoom Playback Zoom Cropping Photo and/or video slide shows
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Interface

Interface	USB: Type C USB connector (SuperSpeed USB); connection to built-in USB port is recommended Type D HDMI connector; Stereo mini-pin jack (3.5 mm diameter; plug-in power supported)
Wi-Fi Functionality	

Standards: IEEE 802.11b/g/n (Africa, Asia, Bolivia, and Oceania)
Standards: IEEE 802.11b/g/n/a/ac (Europe, U.S.A., Canada, Mexico)
Standards: IEEE 802.11b/g/n/a (other countries in the Americas)
Operating frequency: 2412–2462 MHz (channel 11; Africa, Asia, Bolivia, and Oceania)
Operating frequency: 2412–2462 MHz (channel 11) and 5180–5805 MHz (other countries in the Americas)
Operating frequency: 2412–2462 MHz (channel 11) and 5180–5825 MHz (U.S.A., Canada, Mexico)
Authentication: Open system, WPA2-PSK
Maximum output power (EIRP):
2.4 GHz band: 4.5 dBm
5 GHz band: 6.8 dBm (countries in the Americas)

Smart Device App Connectivity

SnapBridge

Bluetooth

Communication protocols: Bluetooth Specification Version 4.2
Operating frequency: Bluetooth: 2402–2480 MHz
Bluetooth Low Energy: 2402–2480 MHz
Maximum output power (EIRP)
Bluetooth –1.0 dBm
Bluetooth Low Energy: –2.5 dBm

Menus

Supported Languages

English
French
Portuguese (Brazil)
Spanish

Power

Battery / Batteries

One EN-EL25 rechargeable Li-ion battery

Battery Life (shots per charge)

330 shots (CIPA)
Movies: Approx. 75 min. of movie recording
EH-7P charging AC adapter (available separately)
MH-32 Battery Charger (available separately)

AC Adapter

Battery Charger

Miscellaneous

Tripod Socket

1/4 in. (ISO 1222)

Approx. Dimensions (Width x Height x Depth)

5.1 in. (128 mm) x 2.9 in. (73.5 mm) x 2.4 in. (59.5 mm)

Approx. Weight

12.4 oz. (350 g)

Operating Environment

Temperature 0 °C–40 °C (+32 °F–104 °F)
Humidity: Less than 85% (no condensation)