Tech Specs

Effective Pixels
24.5 million

Sensor Size
35.9 mm x 23.9 mm

Image Sensor Format
FX

Storage Media
SD (Secure Digital), UHS-1 and UHS-II compliant SDHC and SDXC memory cards microSD cards (UHS-1 compliant microSDHC and microSDXC memory cards)

ISO Sensitivity
ISO 100 to 64000 in steps of 1/3 and 1 EV Can also be set to approx. 0.3, 0.7, or 1 EV (ISO 50 equivalent) below ISO 100 or to approx. 0.3, 0.7, 1 or 1.7 EV (ISO 204800 equivalent) above ISO 64000; auto ISO sensitivity control available Note: ISO sensitivity is limited to 400–64000 when HLG is selected for tone mode.

Movie
4K UHD 3,840 × 2,160 /30p/25p/24p Full HD 1,920 x 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 4K UHD 3840 x 2160 /60p at DX Crop

Monitor Size
3.2 in. diagonal

Monitor Type
Vari-angle TFT touch-sensitive LCD

Battery / Batteries

One EN-EL15c rechargeable Li-ion battery EN-EL15b and EN-EL15a batteries can be used in place of the EN-EL15c. Note, however, that fewer pictures can be taken on a single charge than with the EN-EL15c. EH-7P charging AC adapters and EH-8P AC adapters can be used to charge EN-EL15c and EN-EL15b batteries only.

Approx. Dimensions (Width x Height x Depth)

5.7 in. (144 mm) x 4.1 in. (103 mm) x 2 in. (49 mm)

Approx. Weight

22.29 oz. (630 g)

Type

Type	Digital camera with support for interchangeable lenses
Lens Mount	Nikon Z mount

Image Sensor

Effective Pixels	24.5 million
Sensor Size	35.9 mm x 23.9 mm
Image Sensor Format	FX
Image Sensor Type	CMOS sensor
Total Pixels	25.28 million
Dust-Reduction System	Image Dust Off reference data (NX Studio software required)
Image Area (pixels)	FX-format (L) 6,048 x 4,032 (M) 4,528 x 3,024 (S) 3,024 x 2,016 DX-format (L) 3,984 x 2,656 (M) 2,976 x 1,992

(S) 1,984 x 1,328
1:1 (16 x 16)
(L) 4,032 x 4,032
(M) 3,024 x 3,024
(S) 2,016 x 2,016
16:9 (36 x 20)
(L) 6,048 x 3,400
(M) 4,528 x 2,544
(S) 3,024 x 1,696

Pixel Shift Shooting
Yes

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; size-priority and optimal-quality compression available NEF (RAW) + JPEG: Single photograph recorded in both NEF (RAW) and JPEG formats NEF (RAW): 14 bit with lossless, high-efficiency*, or high-efficiency compression HEIF: Supports fine (approx. 1:4), normal (approx. 1:8), or basic (approx. 1:16) compression; size-priority and optimal-quality compression available NEF (RAW)+HEIF: Single photograph recorded in both NEF (RAW) and HEIF formats
Storage Media	SD (Secure Digital), UHS-1 and UHS-II compliant SDHC and SDXC memory cards microSD cards (UHS-1 compliant microSDHC and microSDXC memory cards)
File System	DCF 2.0 Exif 2.32 MPEG-A MIAF

Viewfinder

Viewfinder	1.27-cm/0.5-in. approx. 3690k-dot (Quad VGA) OLED electronic viewfinder with color balance and auto and 13- level manual brightness controls
Viewfinder Frame Coverage	Approx. 100% horizontal 100% vertical
Viewfinder Magnification	Approx. 0.8x (50 mm lens at infinity, -1.0 m -1)
Viewfinder Eyepoint	21 mm (-1.0 m-1; from center surface of viewfinder eyepiece lens)
Viewfinder Diopter Adjustment	-4 to +2 m−1
Eye Sensor	Automatically switches between monitor and viewfinder displays

Shutter

Shutter Type	Electronically-controlled vertical-travel focal-plane mechanical shutter; electronic front-curtain shutter; electronic shutter
Shutter Speed	Using the shutter speed dial: 1/8000 to 4 sec in steps of 1 EV, Bulb, Time, X (flash sync) Using the main command dial: 1/8000 to 30 sec in steps of 1/3 EV (extendable to 900 s in mode M), Bulb, Time, X (flash sync)
Flash Sync Speed	Up to: X=1/200 sec. to 1/250 sec.; synchronizes with shutter at 1/200 sec. or slower; Auto FP High-Speed sync supported

Exposure

Exposure Metering System	TTL metering using camera image sensor
Metering Range	Matrix or center-weighted metering: -4 to +17 EV (ISO 100, f/2.0 lens, 20 °C/68 °F)
Exposure Compensation	–3 to +3 EV (–5 to +5 EV when the exposure compensation dial is set to [c]), Increment: 1/3 step
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
Note: Choice of Picture Controls is restricted to Standard, Monochrome, and Flat when HLG is selected for tone mode during still photography.
Flat Monochrome
Deep Tone Monochrome
Rich Tone Portrait

Multiple Exposure
Add
Average
Lighten
Darken

Sensitivity

ISO Sensitivity	ISO 100 to 64000 in steps of 1/3 and 1 EV
	Can also be set to approx. 0.3, 0.7, or 1 EV (ISO 50 equivalent) below ISO 100 or to approx. 0.3, 0.7, 1 or 1.7 EV (ISO 204800 equivalent) above ISO 64000; auto ISO sensitivity control available
	Note: ISO sensitivity is limited to 400–64000 when HLG is selected for tone mode.
Active D-Lighting	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 with AF assist
Detection Range	-10 to +19 EV
	Detection range (ISO 100, f/1.2 lens, 20 °C/68 °F using single servo AF (AF-S)
Lens Servo	Autofocus (AF): Single-servo AF (AF-S); continuous-servo AF (AF-C); full-time AF (AF-F; available only in video mode); predictive focus tracking Manual focus (M): Electronic rangefinder can be used
Focus Point	273 (single-point AF)
	Number of focus points available in photo mode with single point AF selected for AF-area mode and FX selected for image area
AF-Area Mode	Pinpoint
	Single-Point
	Wide-area AF (S)
	Wide-area AF (L)
	Auto-area AF
	Dynamic-area (S)
	Dynamic-area (M)
	Dynamic-area (L)
	3D-tracking
	Subject-tracking AF
	Pinpoint and Dynamic-area AF (S, M, L), 3D-tracking available in photo mode only
	3D-tracking available in video mode only
	Wide-area AF (C1)
	Wide-area AF (C2)
Focus Lock	Focus can be locked by pressing shutter-release button halfway (single-servo AF/AF-S) or by pressing the AE/AF lock (Protect) button
Maximum Autofocus Areas/Points	299
Vibration Reduction	5-axis image sensor shift, lens shift available with VR lenses 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 Compensation	-3 to +1 EV in increments of 1/3 available in modes P, S, A, and M
Flash-ready Indicator	Lights when optional flash unit is fully charged; flashes as underexposure warning after flash is fired at full output

Accessory Shoe	ISO 518 hot-shoe with sync and data contacts and safety lock
Nikon Creative Lighting System (CLS)	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 with fine-tuning Shade
White Balance Bracketing	Exposure and/or flash, white balance, and ADL

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.265/HEVC (8 bit/10 bit) H.264/AVC (8 bit)
Movie Audio Recording Format	Linear PCM AAC Linear PCM (48 KHz, 24 bit, for videos recorded in NEV or MOV format) or AAC (48 KHz, 16 bit, for videos recorded in MP4 format)
Movie	4K UHD 3,840 × 2,160 /30p/25p/24p Full HD 1,920 x 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 4K UHD 3840 x 2160 /60p at DX Crop
Movie Audio	Built-in stereo or external microphone with attenuator option; sensitivity can be adjusted
Movie ISO	Mode M: Manual selection (ISO 100 to 51200; choose from step sizes of 1/6, 1/3 and 1 EV); with additional options available equivalent to approximately 0.3, 0.7, 1, or 2 EV (ISO 204800 equivalent) above ISO 51200; auto ISO sensitivity control (ISO 100 to Hi 2.0) available with selectable upper limit Modes P, S, A: Auto ISO sensitivity control (ISO 100 to 51200) Note: ISO sensitivity is limited to 400 to 51200 when HLG is selected for tone mode.
Movie Active D-Lighting	Can be selected from: 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
Extended shutter speeds (mode M)	Yes
Extended shutter speeds (mode S)	Yes

Monitor

Monitor Size	3.2 in. diagonal
Monitor Resolution	2100 k dots

Monitor Type	Vari-angle TFT touch-sensitive LCD

Playback

Voice Memo Function	Yes

Interface

Interface	USB: Type C connector (SuperSpeed USB)
	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/a/ac (Europe, U.S.A., Canada, Mexico)
	Standards: IEEE 802.11b/g/n/a/ac (other countries in the Americas)
	Authentication: Open system, WPA2-PSK, WPA3-SAE
	Standards: IEEE 802.11b/g/n/a/ac (other countries in the Americas)
	Operating frequency: U.S.A., Canada and Mexico: 2412 to 2462 MHz (channel 11) and 5180 to 5825 MHz (5180 to 5580 MHz, 5660 to 5700 MHz, and 5745 to 5825 MHz)
	Operating frequency: Other countries in the Americas: 2412 to 2462 MHz (channel 11) and 5180 to 5805 MHz (5180 to 5320 MHz and 5745 to 5805 MHz)
	Maximum output power (EIRP): 2.4 GHz band: 6.1 dBm
	Maximum output power (EIRP): 5 GHz band: 9.4 dBm
Smart Device App Connectivity	SnapBridge
Bluetooth	Communication protocols: Bluetooth Specification Version 5.0
	Operating frequency: Bluetooth: 2402–2480 MHz
	Bluetooth Low Energy: 2402–2480 MHz
	Maximum output power (EIRP)
	Bluetooth: 0.6 dBm
	Bluetooth Low Energy: -0.9 dBm
GPS	Via the SnapBridge app

Menus

Supported Languages	English
	French
	Portuguese (Brazil)
	Spanish

Power

Battery / Batteries	One EN-EL15c rechargeable Li-ion battery
	EN-EL15b and EN-EL15a batteries can be used in place of the EN-EL15c. Note, however, that fewer pictures can be taken on a single charge than with the EN-EL15c. EH-7P charging AC adapters and EH-8P AC adapters can be used to charge EN-EL15c and EN-EL15b batteries only.
Battery Life (shots per charge)	[Viewfinder only] selected for monitor mode with: [ON] selected for [Energy saving (photo mode)] in the setup menu: Approx. 410 shots
	[Viewfinder only] selected for monitor mode with: [OFF] selected for [Energy saving (photo mode)] in the setup menu: Approx. 360 shots
	[Monitor only] selected for monitor mode with: [ON] selected for [Energy saving (photo mode)] in the setup menu: Approx. 430 shots
	[Monitor only] selected for monitor mode with: [OFF] selected for [Energy saving (photo mode)] in the setup menu: Approx. 380 shots
	Movies: [Viewfinder only] selected for monitor mode: Approx. 90 minutes
	[Monitor only] selected for monitor mode: Approx. 90 minutes
AC Adapter	EH-7P charging AC adapter (available separately)
	EH-8P Charging AC adapter (available separately); requires UC-E25 USB cable (supplied with camera)
Battery Charger	MH-34 Battery Charger (available separately)
	MH-25A Battery Charger (available separately)

Miscellaneous

Tripod Socket	1/4 in. (ISO 1222)

Approx. Dimensions (Width x Height x Depth)	5.7 in. (144 mm) x 4.1 in. (103 mm) x 2 in. (49 mm)
Approx. Weight	22.29 oz. (630 g) *Camera body only*
Operating Environment	Temperature 0 °C–40 °C (+32 °F–104 °F) Humidity: Less than 85% (no condensation)