Tech Specs

Effective Pixels
24.5 million

Sensor Size
35.9 mm x 23.9 mm

Storage Media
CFexpress (Type B), XQD, SD (Secure Digital), and UHS-II compliant SDHC and SDXC 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
5376 x 3024 (5.4K): 60p/50p/30p/25p/24p 3840 x 2160 (4K UHD): 120p/100p/60p/50p/30p/25p/24p 1920 x 1080: 240p/200p/120p/100p/60p/50p/30p/25p/24p 1920 x 1080 (slow-motion): 30p x4/25p x4/24p x5 Note: Actual frame rates for 240p, 200p, 120p, 100p, 60p, 50p, 30p, 25p, and 24p are 239.76, 200, 119.88, 100, 59.94, 50, 29.97, 25, and 23.976 fps respectively.

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-8P AC adapters can be used to charge EN-EL15c and EN-EL15b batteries only. EH-7P charging AC adapters and (available separately) EH-8P Charging AC adapter (available separately); requires UC-E25 USB cable (supplied with camera) MH-34 Battery Charger (available separately)

Approx. Dimensions (Width x Height x Depth)
5.5 in. (138.5 mm) x 4 in. (101.5 mm) x 3 in. (74 mm)

Approx. Weight
23.7 oz. (670 g)

Type   —

Lens Mount	Nikon Z mount

Image Sensor   —

Effective Pixels	24.5 million
Sensor Size	35.9 mm x 23.9 mm
Total Pixels	26.79 million
Dust-Reduction System	Image sensor cleaning, Image Dust Off reference data (requires NX Studio)
Dust-Off Reference Photo	Yes

Image Area (pixels)	FX-format
	(L)(L) 6048 x 4032 (large)
	(M)(M) 4528 x 3024 (medium)
	(S)(S) 3024 x 2016 (small)
	DX-format
	(L)(L) 3984 x 2656 (large)
	(M)(M) 2976 x 1992 (medium)
	(S)(S) 1984 x 1328 (small)
	1:1 (16 x 16)
	(L)(L) 4032 x 4032 (large)
	(M)(M) 3024 x 3024 (medium)
	(S)(S) 2016 x 2016 (small)
	1:1 (24 x 24)
	(L)(L) 4032 x 4032 (large)
	(M)(M) 3024 x 3024 (medium)
	(S)(S) 2016 x 2016 (small)
	16:9 (36 x 20)
	(L)(L) 6048 x 3400 (large)
	(M)(M) 4528 x 2544 (medium)
	(S)(S) 3024 x 1696 (small)
	16:9 (36 x 20)
	(L)(L) 6048 x 3400 (large)
	(M)(M) 4528 x 2544 (medium)
	(S)(S) 3024 x 1696 (small)
	Partially Stacked CMOS Sensor

File System   —

File Format Still Images	NEF (RAW): 14 bit with lossless, high-efficiency*, and high efficiency options 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 availableHEIF: Supports 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)+HEIF: Single photograph recorded in both NEF(RAW) and HEIF formats
Storage Media	CFexpress (Type B), XQD, SD (Secure Digital), and UHS-II compliant SDHC and SDXC memory cards
Card Slot	2 slots (1 CFexpress/XQD and 1 SD)
File System	DCF 2.0, Exif 2.32, MPEG-A MIAF

Viewfinder   —

Viewfinder	1.27-cm/0.5-in. UXGA OLED electronic viewfinder with approx. 5760k-dots, colour balance, auto and 19-level manual brightness controls, and support for high frame rates
Viewfinder Frame Coverage	Approx.Approx. 100% horizontal and 100% vertical
Viewfinder Magnification	Approx.Approx. 0.8x (50 mm lens at infinity, -1.0 m -1)
Viewfinder Eyepoint	21mm (-1.0 m-1; from rearmost surface of viewfinder eyepiece lens)
Viewfinder Diopter Adjustment	−4 – +2 m−1
Eye Sensor	Automatically switches between monitor and viewfinder displays

Lens   —

Depth-of-Field Control	Yes
Lens Compatibility at a Glance***	Z mount NIKKOR lenses F mount NIKKOR lenses with mount adapter; restrictions may apply
Compatible Lenses	Z mount NIKKOR lenses F mount NIKKOR lenses with mount adapter; restrictions may apply

Shutter   —

Shutter Type	Electronically-controlled vertical-travel focal-plane mechanical shutter; electronic front-curtain shutter; electronic shutter
Shutter Speed	$\frac{1}{8000}$ – 30 s (choose from step sizes of $\frac{1}{3}$, $\frac{1}{2}$, and 1 EV, extendable to 900 s in mode M), bulb, time When using an electronic shutter, the shutter speed can be set up to $\frac{1}{16,000}$ s.
Fastest Shutter Speed	Mechanical shutter: 1/8000; Electronic shutter: 1/16000 sec.
Slowest Shutter Speed	900 sec. sec.
Flash Sync Speed	Up to: 1/200 second
Bulb Shutter Setting	Yes
Shutter Release Modes	Single frame Continuous L Continuous H Continuous high-speed (extended) High-speed frame capture with Pre-Release Capture Self-timer
Approx. Frame Advance Rate	Continuous L: Approx 1-7 fps Continuous high speed: Approx. 8.1 fps (when using the electronic shutter and image quality settings other than NEF(RAW) and NEF (RAW) +: approx. 16 fps) Continuous high speed (extended): Approx. 14 fps (with electronic shutter: Approx. 20 fps) High-speed frame capture + (C30): Approx. 30 fps High-speed frame capture + (C60): Approx. 60 fps High-speed frame capture + (C120): Approx. 120 fps Maximum frame advance rate as measured by in house tests
Continuous Shooting Options	Continuous L: 1-7 fps Continuous H: 1-8.1 fps (up to 16 fps with electronic shutter) Continuous H extended: 1-14 fps (up to 20 fps with electronic shutter) High-speed frame capture + (C30): Approx. 30 fps High-speed frame capture + (C60): Approx. 60 fps High-speed frame capture + (C120): Approx. 120 fps Maximum frame advance rate as measured by in house tests
Self-Timer	2, 5, 10, 20 sec.; 1-9 exposures at intervals of 0.5, 1, 2, or 3 sec. *Timer duration electronically controlled*
Silent Shooting	Yes
Top Continuous Shooting Speeds	20 frames per second with RAW at Full Resolution 30 frames per second with JPEG at Full Resolution 60 frames per second with JPEG at Full Resolution 120 frames per second with JPEG at 11 Megapixels

Exposure   —

Exposure Metering System	TTL metering using camera image sensor
Metering Method	Matrix metering Centre-weighted metering: Weight of 75% given to 12 mm or 8 mm circle in centre of frame or weighting can be based on average of entire frame Spot metering: Meters 4 mm circle centred on selected focus point Highlight-weighted metering
Metering Range	'-4 to +17 EV (ISO 100, f/2.0 lens, 20 °C/68 °F)
Exposure Modes	AutoProgrammed auto with flexible program (P) Shutter-priority auto (S) Aperture-priority auto (A) Manual (M)
Exposure Compensation	'−5 – +5 EV (choose from step sizes of $\frac{1}{3}$ and $\frac{1}{2}$ EV)
Exposure Bracketing	Yes
Exposure Lock	Luminosity locked at detected value
Picture Control	Flexible Picture Control, Rich Tone Portrait, Deep Tone Monchrome, Flat Monochrome, Storage for custom Picture Controls, Selected Picture Control can be modified, Standard, Standard, Portrait, Neutral, Monochrome, Landscape, Flat, Creative Picture Controls (Dream, Morning, Pop, Sunday, Somber, Dramatic, Silence, Bleached, Melancholic, Pure, Denim, Toy, Sepia, Blue, Red, Pink, Charcoal, Graphite, Binary, Carbon), Auto
Multiple Exposure	Add, average, lighten, darken
HDR Overlay	Yes
Photo mode flicker reduction	Yes
High-frequency flicker reduction	Yes

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.
Lowest Standard ISO Sensitivity	100
Highest Standard ISO Sensitivity	64000
Lowest Expanded ISO Sensitivity	50
Highest Expanded ISO Sensitivity	204800
Long Exposure Noise Reduction	Yes
High ISO Noise Reduction	Yes
Active D-Lighting	Can be selected from: Auto, Extra high, High, Normal, Low, and Off
Active D-Lighting Bracketing	Yes

Focus/Autofocus

Single-Point AF Mode	Yes
Dynamic AF Mode	Yes
Auto-Area AF Mode	Yes
Autofocus System	Hybrid phase-detection/contrast AF with AF assist
Detection Range	'−8 – +19 EV (−10 – +19 EV with starlight view) 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/1.2
Lens Servo	Autofocus (AF) Single-servo AF (AF-S) Continuous-servo AF (AF-C) Full-time AF (AF-F) available only in video mode) Manual focus (M): Electronic rangefinder can be used
Focus Point	273 focus points (single-point AF) 299 focus points (auto-area AF) Number of focus points available in photo mode with FX selected for image area
AF-Area Mode	Pinpoint Single-point Dynamic-area (S) Dynamic-area (M) Dynamic-area (L) Wide-area AF (S) Wide-area AF (L) Wide-area AF (C1) Wide-area AF (C2) Auto-area AF 3D-tracking Subject-tracking AF Pinpoint (available in photo mode only) Single-point, dynamic-area (S, M, and L; available in photo mode only) wide-area (S, L, C1, and C2), and auto-area AF; 3D-tracking (available in photo mode only); Subject-tracking AF (available in video mode only)
Focus Lock	Focus can be locked by pressing shutter-release button halfway (single-servo AF/AF-S) or by pressing the centre of the sub-selector
Focus Modes	AF-S, AF-C, AF-F (video), MF
Maximum Autofocus Areas/Points	299
Vibration Reduction	Lens shift (available with VR lenses)
Autofocus Fine Tune	Yes
	Yes

Flash

Flash Bracketing	Yes
X-Sync Speed	1/200 sec sec.

Top FP High Speed Sync	Up to:1/8000 sec sec.
Flash Control	TTL: i-TTL flash control; i-TTL balanced fill-flash is used with matrix, centre-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 (choose from step sizes of ⅓ and ½ EV)
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, radio-controlled Advanced Wireless Lighting, optical Advanced Wireless Lighting, modelling illumination, FV lock, Colour Information Communication, auto FP high-speed sync, unified flash control
Flash Sync Terminal	No
	1/200 second

White Balance ▬

White Balance	Auto (3 types) Choose colour 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	Yes Exposure and/or flash, white balance, and ADL

Live View ▬

Live View Shooting	Yes

Movie ▬

Movie Metering	TTL metering using camera image sensor
Movie Maximum Recording Time	2 hours 5 minutes
Movie File Format	NEV MOV MP4
Movie Video Compression	N-RAW (12 bit), Apple ProRes RAW HQ (12 bit), Apple ProRes 422 HQ (10 bit), H.265/HEVC (8 bit/10 bit), H.264/AVC (8 bit)
Movie Audio Recording Format	Linear PCM (48 KHz, 24 bit, for videos recorded in NEV or MOV format), AAC (48 KHz, 16 bit, for videos recorded in MP4 format)
Movie Frame size (pixels) and frame rate (RAW Video)	6048 x 3402: 60p/50p/30p/25p/24p4032 x 2268: 60p/50p/30p/25p/24p 3984 x 2240: 120p/100p/60p/50p/30p/25p/24p Note: 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.
Movie	5376 x 3024 (5.4K): 60p/50p/30p/25p/24p 3840 x 2160 (4K UHD): 120p/100p/60p/50p/30p/25p/24p 1920 x 1080: 240p/200p/120p/100p/60p/50p/30p/25p/24p 1920 x 1080 (slow-motion): 30p x4/25p x4/24p x5 Note: Actual frame rates for 240p, 200p, 120p, 100p, 60p, 50p, 30p, 25p, and 24p are 239.76, 200, 119.88, 100, 59.94, 50, 29.97, 25, and 23.976 fps respectively.
4K Ultra High Definition (UHD)	Yes
Full HD Movies (1080p)	Yes
Slow Motion Video	Yes
Movie Audio	Built-in stereo or external microphone can be used; external audio devices can be used via line input, audio input sensitivity adjustable; attenuator, frequency response, and wind noise reduction functions
Movie ISO	Mode M: Manual selection (ISO 100 to 51200; choose from step sizes of ⅙, ⅓ 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 Note: ISO sensitivity is limited to 400 to 51200 when HLG is selected for tone mode. Note: ISO sensitivity is limited to Lo 0.3 to 2.0 and 800 to 51200 when N-Log is selected for tone mode. Modes P, S, A: Auto ISO sensitivity control (ISO 100 to Hi 2.0) with selectable upper limit AUTO mode: Auto ISO sensitivity control (ISO 100 to 51200)

Movie Active D-Lighting	Can be selected from: Extra high, High, Normal, Low, and Off
Time Code	Yes
Movie Log Gamma Output	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
Raw Video Option	Yes
N-Log and HDR (HLG) video	Yes
Waveform display	Yes
Red REC frame indicator	Yes
Video recording display zoom (50%, 100%, and 200%)	Yes
Extended shutter speeds (mode M)	Yes
Extended shutter speeds (mode S)	Yes
Dual-format (proxy-video) recording for RAW video	Yes
Extended oversampling available	Yes
Option to view video recording info available via I menu	Yes
Hi-Res Zoom	Yes
	Yes

Monitor —

Monitor Size	3.2 in. diagonal
Monitor Resolution	2100 k dots
Monitor Type	Vari-angle TFT touch-sensitive LCD
Touchscreen	Yes
Monitor Angle of View	170° viewing angle
Monitor Adjustments	Colour balance15-level manual brightness controls
Virtual Horizon Camera Indicator	Yes

Playback —

Playback Functions	Full-frame and thumbnail (up to 4, 9, or 72 pictures) playback with playback zoom playback zoom cropping histogram display highlights video playback photo

information location data display auto picture rotation picture rating voice memo input and playback IPTC information embedding and display Slide shows Filtered playback Skip to first shot in series Series playback Save consecutive frames Motion blend photo information

In-Camera Image Editing	RAW processing Trim Resize D-Lighting Straighten Distortion Control Perspective Control Monochrome
Image Comment	Yes
Voice Memo Function	Yes

Interface   —

Interface	USB: Type C SuperSpeed USB connector HDMI: Type A HDMI connector Audio Input: Stereo mini-pin jack (3.5 mm diameter; plug-in power and line input supported) Audio Output: Stereo mini-pin jack (3.5 mm diameter) Accessory terminal: Built-in
Ethernet	No
Wi-Fi Functionality	Standards: IEEE 802.11b/g/n/a/ac (U.S.A., Canada, and Mexico) IEEE 802.11b/g/n/a (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) 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: 3.8 dBm 5 GHz band: 9.5 dBm Authentication: Open system, WPA2-PSK, WPA3-SAE
Smart Device App Connectivity	SnapBridge
Wireless Connectivity	Yes
Wireless Transfer to PC	Yes
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: -1.7 dBm Bluetooth Low Energy: -3.2 dBm
Save/Load Camera Settings	Yes
Supported Languages	English, Spanish, French, Portuguese
Date, Time and Daylight Savings Time Settings	Yes
World Time Setting	Yes
Webcam Utility Compatible	Yes

Menus   —

My Menu	Yes
Recent Settings	Yes
Supported Languages	English, Spanish, French, Portuguese
Date, Time and Daylight Savings Time Settings	Yes
World Time Setting	Yes

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-8P AC adapters can be used to charge EN-EL15c and EN-EL15b batteries only. EH-7P charging AC adapters and (available separately) EH-8P Charging AC adapter (available separately); requires UC-E25 USB cable (supplied with camera) MH-34 Battery Charger (available separately)
Battery Life (shots per charge)	Photo Mode (Single Frame): Number of Shots • [Viewfinder only] selected for monitor mode with: [ON] selected for [Energy saving (photo mode)] in the setup menu:

Approx. 380 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. 410 shots - [Monitor only] selected for monitor mode with: [OFF] selected for [Energy saving (photo mode)] in the setup menu: Approx. 390 shots Video Mode: Length of Footage: • [Viewfinder only] selected for monitor mode: Approx. 100 minutes • [Monitor only] selected for monitor mode: Approx. 100 minutes Movies:Yes
Photo Mode: Number of Shots
true
Movie Mode: Length of Footage
Yes

AC Adapter	EH-7P charging AC adapter (available separately) EH-8P AC charging adapter (available separately); requires UC-E25 USB cable (supplied with camera) EH-5d, EH-5c, and EH-5b AC adapters; requires EP-5B power connector (available separately)
Battery Charger	MH-25A, MH-34

Miscellaneous —

Tripod Socket	0.635 cm (1/4 in., ISO 1222)
Approx. Dimensions (Width x Height x Depth)	5.5 in. (138.5 mm) x 4 in. (101.5 mm) x 3 in. (74 mm)
Approx. Weight	23.7 oz. (670 g)
Operating Environment	Temperature: 0 °C to 40 °C (+14 °F to 104 °F) Humidity: Less than 85% (no condensation)