

## Z 8 SPECIFICATIONS

Type of camera	Digital camera with support for interchangeable lenses
Lens mount	Nikon Z mount
Compatible lenses	<ul style="list-style-type: none"> <li>Z mount NIKKOR lenses</li> <li>F mount NIKKOR lenses (mount adapter required; restrictions may apply)</li> </ul>
Effective pixels	45.7 million
Image sensor	35.9 × 23.9 mm CMOS sensor (full-frame/FX-format)
Total pixels	52.37 million
File format	<ul style="list-style-type: none"> <li>NEF (RAW): 14 bit with lossless compression, high efficiency★ or high efficiency</li> <li>JPEG (JPEG-Baseline compliant) or HEIF: fine (approx. 1:4), normal (approx. 1:8), or basic (approx. 1:16) compression; size-priority and optimal-quality compression available</li> <li>NEF (RAW)+JPEG or NEF (RAW)+HEIF: Single photograph recorded in both NEF (RAW) and JPEG or HEIF formats</li> </ul>
Picture Control System	Auto, Standard, Neutral, Vivid, Monochrome, Portrait, Landscape, Flat, 20 Creative Picture Controls; selected Picture Control can be modified; storage for custom Picture Controls; Standard, Monochrome, and Flat are available for HLG tone mode during still photography
Storage media	CFexpress (Type B), XQD, SD (Secure Digital), and UHS-II compliant SDHC and SDXC memory cards
Dual card slots	Either card can be used for overflow or backup storage, for separate storage of NEF (RAW) and JPEG or HEIF pictures, or for storage of duplicate JPEG or HEIF pictures at different sizes and image qualities; pictures can be copied between cards
Viewfinder	1.27-cm/0.5-in. approx. 3690k-dot (Quad VGA) OLED electronic viewfinder with colour balance, auto and 18-level manual brightness controls, and support for high frame rates
Viewfinder frame coverage	Approx. 100% horizontal and 100% vertical
Viewfinder magnification	Approx. 0.8× (50 mm lens at infinity, -1.0 m <sup>-1</sup> )
Monitor	8-cm/3.2-in., approx. 2100k-dot vertically and horizontally tilting TFT touch-sensitive LCD with 170° viewing angle, approx. 100% frame coverage, and colour balance and 15-level manual brightness controls
Shutter type	Electronic shutter with shutter sound and sensor shield
Shutter speed	1/32000 to 30 s in steps of 1/3, 1/2 and 1 EV, extendable to 900 s in mode <b>M</b> , bulb, time
Release modes	Single frame, continuous L, continuous H, High-Speed Frame Capture+ with Pre-Release Capture, self-timer
Approximate frame advance rate (measured by in-house tests)	<ul style="list-style-type: none"> <li>Continuous L: 1 to 10 fps</li> <li>Continuous H: 10 to 20 fps</li> <li>High-Speed Frame Capture+ (C30): 30 fps</li> <li>High-Speed Frame Capture+ (C60): 60 fps</li> <li>High-Speed Frame Capture+ (C120): 120 fps</li> </ul>
Exposure metering system	TTL metering using camera image sensor
Exposure metering modes	<ul style="list-style-type: none"> <li>Matrix metering</li> <li>Center-weighted metering: Weight of 75% given to 12- or 8-mm circle in center of frame or weighting can be based on average of entire frame</li> <li>Spot metering: Meters circle with a diameter of approx. 4-mm centered on selected focus point</li> <li>Highlight-weighted metering</li> </ul>

Metering range (ISO 100, f/2.0 lens, 20°C/68°F)	-3 to +17 EV
ISO sensitivity (Recommended Exposure Index)	ISO 64 to 25600 in steps of 1/3 or 1 EV; can also be set to approx. 0.3, 0.7 or 1 EV (ISO 32 equivalent) below ISO 64 or to approx. 0.3, 0.7, 1 or 2 EV (ISO 102400 equivalent) above ISO 25600; auto ISO sensitivity control available; ISO 400 to 25600 for HLG tone mode
Active D-Lighting	Can be selected from auto, extra high 2, extra high 1, high, normal, low, or off
Autofocus type	Hybrid phase-detection/contrast AF with AF assist
AF detection range (in photo mode, AF-S, ISO 100, f/1.2 lens, 20°C/68°F)	-7 to +19 EV (-9 to +19 EV with starlight view)
Focus points (in photo mode, FX format, single-point AF)	493 points
AF-area modes	Pinpoint AF, single-point AF, dynamic-area AF (S, M and L), wide-area AF (S, L, C1 and C2), auto-area AF, 3D-tracking and subject-tracking AF (available in video mode only); Pinpoint AF, dynamic-area AF and 3D-tracking are available in photo mode only
Camera on-board VR	5-axis image sensor shift
Lens on-board VR	Lens shift (available with VR lenses)
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 modes	Front-curtain sync, slow sync, rear-curtain sync, red-eye reduction, red-eye reduction with slow sync, off
Nikon Creative Lighting System (CLS)	i-TTL flash control, radio-controlled Advanced Wireless Lighting, optical Advanced Wireless Lighting, modeling illumination, FV lock, colour information communication, auto FP high-speed sync, unified flash control
White balance	Auto (3 types), natural light auto, direct sunlight, cloudy, shade, incandescent, fluorescent (3 types), flash, choose color temperature (2500 to 10000 K), preset manual (up to 6 values can be stored), all with fine-tuning
Bracketing types	Exposure and/or flash, white balance, and ADL
Video metering modes	Matrix, center-weighted or highlight-weighted
Frame size (pixels) and frame rate	<ul style="list-style-type: none"> <li>7680 × 4320 (8K UHD); 30p (progressive), 25p, 24p</li> <li>3840 × 2160 (4K UHD); 120p, 100p, 60p, 50p, 30p, 25p, 24p</li> <li>1920 × 1080; 120p, 100p, 60p, 50p, 30p, 25p, 24p</li> </ul>
Frame size (pixels) and frame rate (RAW video)	<ul style="list-style-type: none"> <li>8256 × 4644; 60p, 50p, 30p, 25p, 24p</li> <li>5392 × 3032; 60p, 50p, 30p, 25p, 24p</li> <li>4128 × 2322; 120p, 100p, 60p, 50p, 30p, 25p, 24p</li> <li>3840 × 2160; 120p, 100p, 60p, 50p</li> </ul>
File format	NEF, MOV, MP4
Video compression	N-Raw (12 bit), Apple ProRes RAW HQ (12 bit), Apple ProRes 422 HQ (10 bit), H.265/HEVC (8/10 bit), H.264/AVC (8 bit)
Audio recording format	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)
Audio recording device	Built-in stereo or external microphone with attenuator option; sensitivity adjustable

Video exposure compensation	-3 to +3 EV in steps of 1/3 or 1/2 EV
Video ISO sensitivity (Recommended Exposure Index)	<ul style="list-style-type: none"> <li><b>M</b> mode: ISO 64 to 25600 in steps of 1/6, 1/3 or 1 EV; with additional options available equivalent to approx. 0.3, 0.7, 1 or 2 EV (ISO 102400 equivalent) above ISO 25600; auto ISO sensitivity control (ISO 64 to Hi 2.0) available with selectable upper limit</li> <li><b>P</b>, <b>S</b> or <b>A</b> mode: Auto ISO sensitivity control (ISO 64 to Hi 2.0) with selectable upper limit; ISO 400 to 25600 for HLG tone mode</li> </ul>
Other video options	Time-lapse video recording, electronic vibration reduction, time codes, N-Log and HDR (HLG) video, wave-form display, red REC frame indicator, video recording display zoom (50%, 100%, and 200%), extended shutter speeds ( <b>M</b> mode), and dual-format (proxy video) recording for RAW video; extended oversampling available; option to view video recording info available via <b>z</b> menu; Hi-Res Zoom
USB	<ul style="list-style-type: none"> <li>Type-C USB connectors</li> <li>USB data connector (SuperSpeed USB) ×1</li> <li>USB Power Delivery connector ×1</li> </ul>
HDMI output	Type-A HDMI connector
Audio input	Stereo mini-pin jack (3.5-mm diameter; plug-in power supported)
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Ten-pin remote terminal	Built-in; can be used with MC-30A/MC-36A remote cords and other optional accessories
Wi-Fi	Available
Bluetooth	Available
Battery	One EN-EL15c Rechargeable Li-ion Battery; EN-EL15b and EN-EL15a batteries can be used in place of the EN-EL15c; Note that fewer pictures can be taken on a single charge than with the EN-EL15c and that EH-7P Charging AC Adapter and EH-8P AC Adapter can be used to charge EN-EL15c and EN-EL15b batteries only
Battery pack	MB-Ni2 Power Battery Pack (available separately) taking two EN-EL15c batteries; EN-EL15b and EN-EL15a batteries can be used in place of the EN-EL15c
AC adapter (available separately)	<ul style="list-style-type: none"> <li>EH-7P Charging AC Adapter</li> <li>EH-8P AC Adapter; requires UC-E25 USB Cable</li> <li>EH-5d, EH-5c, and EH-5b AC Adapters; requires EP-5B Power Connector</li> </ul>
Tripod socket	0.635 cm; 1/4 in., ISO 1222
Dimensions (W × H × D)	Approx. 144 × 118.5 × 83 mm/5.7 × 4.7 × 3.3 in.
Weight	Approx. 910 g/2 lb 0.1 oz with battery and memory card but without body cap and accessory shoe cover; approx. 820 g/1 lb 13 oz (camera body only)
Operating environment	Temperature: -10 to 40°C/+14 to 104°F; Humidity: 85% or less (no condensation)
Supplied accessories (may differ by country or area)	BF-N1 Body Cap, EN-EL15c Rechargeable Li-ion Battery, MH-25a Battery Charger, DK-33 Rubber Eyecup, HDMI/USB Cable Clip, AN-DC26 Strap, UC-E24 USB Cable, BS-1 Accessory Shoe Cover



### WARNING

TO ENSURE CORRECT USAGE, READ MANUALS CAREFULLY BEFORE USING YOUR EQUIPMENT. SOME DOCUMENTS CAN BE DOWNLOADED FROM [downloadcenter.nikonimglib.com](http://downloadcenter.nikonimglib.com).

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**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE