

NIKON Z7 SPECIFICATIONS

Tripod socket: 1/4-in. (ISO 1222)

Picture Control System: Auto, Standard, Neutral, Vivid, Monochrome, Portrait, 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); selected Picture Control can be modified; storage for custom Picture Controls.

Wi-Fi (Wireless LAN) range (line of sight): Approximately 10 m (32 ft) without interference; range may vary with signal strength and presence or absence of obstacles

Viewfinder: 1.27-cm/0.5-in. approx. 3690k-dot (Quad VGA) OLED with color balance and auto and 11-level manual brightness controls

Multiple exposure: Add, average, lighten, darken

Operating environment – temperature: 0 °C to 40 °C (+32 °F to 104 °F)

Storage file formats: NEF (RAW): 12 or 14 bit (lossless compressed, compressed, or uncompressed); large, medium, and small available (medium and small images are recorded at a bit depth of 12 bits using lossless compression).

TIFF (RGB).

JPEG: JPEG-Baseline compliant with fine (approx. 1 : 4), normal (approx. 1 : 8), or basic (approx. 1 : 16) compression; optimal quality compression available.

NEF (RAW)+JPEG: Single photograph recorded in both NEF (RAW) and JPEG formats.

Lens VR: Lens shift (available with VR lenses)

Flash sync speed: X=1/200 s; synchronizes with shutter at 1/200 s or slower; Auto FP High-Speed sync supported

Lens servo: Autofocus (AF):

Single-servo AF (AF-S), Continuous-servo AF (AF-C), full-time AF (AF-F; available only in movie mode); predictive focus tracking.

Manual focus (M):

Electronic rangefinder can be used

Focus points: 493 (single-point AF)

Flash modes: Front-curtain sync, slow sync, rear-curtain sync, red-eye reduction, red-eye reduction with slow sync, slow rear-curtain sync, off

Frame advance rate: Up to 9 fps. Low-speed continuous: 1 to 5 fps. High-speed continuous: 5.5 fps (14-bit NEF/RAW: 5 fps). High-speed continuous (extended): 9 fps (14-bit NEF/RAW: 8 fps). (measured under Nikon-specified test conditions)

Release mode: Single frame, low-speed continuous, high-speed continuous, high-speed continuous (extended), self-timer

Battery: One EN-EL15b rechargeable Li-ion battery; EN-EL15a/EN-EL15 can also be used, but note that fewer pictures can be taken on a single charge and that charging AC adapter can be used to charge EN-EL15b batteries only

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

Movie - audio recording format: Linear PCM, AAC

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

Movie - metering method: Matrix, centre-weighted, or highlight-weighted

Operating environment - humidity

85% or less (no condensation)

Compatible lenses: Z mount NIKKOR lenses. F mount NIKKOR lenses with mount adapter; restrictions may apply.

Other options: HDR (high dynamic range), photo mode flicker reduction

Movie - video compression: H.264/MPEG-4 Advanced Video Coding

Exposure compensation: -5 to +5 EV in increments of 1/3 or 1/2 EV available in modes P, S, A, and M

Total pixels: 46.89 million

Movie - audio recording device: Built-in stereo or external microphone with attenuator option; sensitivity adjustable

Eyepoint: 21 mm (-1.0 m⁻¹; from centre surface of viewfinder eyepiece lens)

ISO sensitivity: ISO 64 to 25600 in steps of 1/3 or 1/2 EV.

Can also be set to approx. 0.3, 0.5, 0.7, or 1 EV (ISO 32 equivalent) below ISO 64 or to approx. 0.3, 0.5, 0.7, 1, or 2 EV (ISO 102400 equivalent) above ISO 25600; auto ISO sensitivity control available

Wi-Fi (Wireless LAN) operating frequency: 2412 to 2462 MHz (channel 11) and 5180 to 5320 MHz

Image size (pixels): FX (36x24) image area, (L) 8256 x 5504 (45.4 million), (M) 6192 x 4128 (25.6 million), (S) 4128 x 2752 (11.4 million).

DX (24x16) image area, (L) 5408 x 3600 (19.5 million), (M) 4048 x 2696 (10.9 million), (S) 2704 x 1800 (4.9 million).

5 : 4 (30x24) image area, (L) 6880 x 5504 (37.9 million), (M) 5152 x 4120 (21.2 million), (S) 3440 x 2752 (9.5 million).

1 : 1 (24x24) image area, (L) 5504 x 5504 (30.3 million), (M) 4128 x 4128 (17.0 million), (S) 2752 x 2752 (7.6 million).

16 : 9 (36x20) image area, (L) 8256 x 4640 (38.3 million), (M) 6192 x 3480 (21.5 million), (S) 4128 x 2320 (9.6 million).

Photographs taken during movie recording at a frame size of 3840 x 2160: 3840 x 2160.

Photographs taken during movie recording at other frame sizes: 1920 x 1080.

Movie - Other options: Time-lapse movies, electronic vibration reduction, time codes, movie log output (N-Log)

Wi-Fi (Wireless LAN) maximum output power: 2.4 GHz band: 7.0 dBm. 5 GHz band: 12.1 dBm

Weight: Approx. 675 g (1 lb. 7.9 oz.) with battery and memory card but without body cap; approx. 585 g/1 lb. 4.7 oz. (camera body only)

Card slot: 1 XQD card

Dimensions (W x H x D): Approx. 134 x 100.5 x 67.5 mm (5.3 x 4 x 2.7 in.)

Effective angle of view: FX (full-frame)

Flash-ready indicator: Lights when optional flash unit is fully charged; flashes as underexposure warning after flash is fired at full output

Exposure metering: TTL exposure metering

Image sensor: CMOS, 35.9 mm x 23.9 mm

AF-area mode: Pinpoint, single-point, and dynamic-area AF (pinpoint and dynamic-area AF available in photo mode only); wide-area AF (S); wide-area AF (L); auto-area AF

Movie - Active D-Lighting: Can be selected from Same as photo settings, Extra high, High, Normal, Low, or Off

Autofocus: 493 points (phase-detection, in single-point AF) / 90% coverage vertically & horizontally.

Hybrid phase-detection/contrast AF with AF assist.

Bracketing types: Exposure, Flash, White balance, ADL

Shutter speed: 1/8000 to 30 s in steps of 1/3 or 1/2 EV, bulb, time, X200

Audio input: Stereo mini-pin jack (3.5 mm diameter; plug-in power supported)

Metering range (ISO 100, f/1.4 lens, 20 °C/68 °F): -3 to +17 EV (ISO 100, f/2.0 lens, 20 °C/68 °F)

Accessory terminal(s): Can be used with MC-DC2 and other optional accessories

Self-timer: 2 s, 5 s, 10 s, 20 s; 1 to 9 exposures at intervals of 0.5, 1, 2, or 3 s

Active D-Lighting: Can be selected from Auto, Extra high, High, Normal, Low, or Off

Bluetooth standards: Communication protocols: Bluetooth Specification Version 4.2; Operating frequency: Bluetooth: 2402 to 2480 MHz; Bluetooth Low Energy: 2402 to 2480 MHz

Exposure meter coupling: CPU

Supplied accessories: BF-N1 Body Cap, DK-29 Rubber Eyecup (comes attached to camera), EN-EL15b Rechargeable Li-ion, Battery with terminal cover, MH-25a Battery Charger (comes with either an AC wall adapter or power cable of a type and shape that varies with the country or region of sale), AN-DC19 Strap, EH-7P Charging AC Adapter (supplied with a plug adapter attached in countries or regions where required; shape depends on country of sale), HDMI/USB Cable Clip, UC-E24 USB Cable, BS-1 Accessory Shoe Cover.

Focus lock: Focus can be locked by pressing shutter-release button halfway (single-servo AF) or by pressing the centre of the sub-selector

Monitor: 8 -cm (3.2 -in.) diagonal. Tilting TFT touch-sensitive LCD with 170° viewing angle, approximately 100% frame coverage, and color balance and 11-level manual brightness controls. Approx. 2100 k-dot.

Flash compensation: -3 to +1 EV in steps of 1/3 or 1/2 EV available in modes P, S, A, and M

Wi-Fi (Wireless LAN) standards: IEEE 802.11b/g/n/a/ac

Movie – metering: TTL exposure metering using main image sensor

Movie - file format: MOV, MP4

Magnification: Approx. 0.8× (50 mm lens at infinity, -1.0 m-1)

Lens mount: Nikon Z mount

Shutter type: Electronically-controlled vertical-travel focal-plane mechanical shutter; electronic front-curtain shutter; electronic shutter.

Movie - frame size (pixels) and frame rate: 3840 x 2160 (4K UHD); 30p (progressive), 25p, 24p.

1920 x 1080; 120p, 100p, 60p, 50p, 30p, 25p, 24p.

1920×1080 (slow-mo); 30p ×4, 25p ×4, 24p ×5.

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 available at all sizes except 3840 x 2160, 1920 x 1080 120p/100p, and 1920 x 1080 slow-mo, when quality is fixed at high.

Detection range: -1 to +19 EV (-4 to +19 EV with low-light AF)

USB: Type C connector (SuperSpeed USB). Connection to built-in USB port is recommended.

Supported languages: Bulgarian, Czech, Danish, German, English, Spanish, Greek, French, Italian, Hungarian, Dutch, Norwegian, Polish, Portuguese, Russian, Romanian, Serbian, Finnish, Swedish, Turkish, Ukrainian, Arabic

Frame coverage: Approx. 100% horizontal and 100% vertical

Mode: Auto; programmed auto with flexible program (P); shutter-priority auto (S); aperture-priority auto (A); manual (M); user settings (U1, U2, U3)

Nikon Creative Lighting System: 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

Playback: Full-frame and thumbnail (4, 9, or 72 images) playback with playback zoom, playback zoom cropping, movie playback, photo and/or movie slide shows, histogram display, highlights, photo information, location data display, picture rating, and auto image rotation.

Wi-Fi (Wireless LAN) security: Authentication: Open system, WPA2-PSK

Eye sensor: Automatically switches between monitor and viewfinder displays

Effective pixels: 45.7 million

Dust-reduction system: Image Dust Off reference data (requires Capture NX-D); image sensor cleaning.

AC adapter: EH-5c/EH-5b AC adapter (requires EP-5B power connector, which is available separately)

Metering method: Matrix metering.

Centre-weighted metering: Weight of 75% given to 12 mm circle in centre of frame; weighting can instead be based on average of entire frame.

Spot metering: Meters 4 mm circle (about 1.5% of frame) centred on selected focus point.

Highlight-weighted metering.

White balance: Auto (3 types), natural light auto, direct sunlight, cloudy, shade, incandescent, fluorescent (7 types), flash, choose colour temperature (2500 K to 10,000 K), preset manual (up to 6 values can be stored), all except choose colour temperature with fine-tuning

HDMI output: Type C HDMI connector

Type: Mirrorless

File system: DCF 2.0, Exif 2.31, PictBridge

Diopter adjustment: -4 to +2 m-1

Movie - ISO sensitivity: Auto: Auto ISO sensitivity control (ISO 64 to 25600).

P, S, A: Auto ISO sensitivity control (ISO 64 to Hi 2) with selectable upper limit.

M: Auto ISO sensitivity control (ISO 64 to Hi 2) available with selectable upper limit; manual selection (ISO 64 to 25600 in steps of 1/3 or 1/2 EV) with additional options available equivalent to approximately 0.3, 0.5, 0.7, 1, or 2 EV (ISO 102400 equivalent) above ISO 25600.

Audio output: Stereo mini-pin jack (3.5 mm diameter)

Camera VR: 5-axis image sensor shift

Exposure lock: Luminosity locked at detected value