

Nikon 1 AW1



Specifications

Type	
Type	Digital camera with support for interchangeable lenses
Lens mount	Nikon waterproof 1 mount
Effective angle of view	Approx. 2.7x lens focal length (35mm format equivalent)
Effective pixels	
Effective pixels	14.2 million
Image sensor	
Image sensor	13.2 mm x 8.8 mm CMOS sensor (Nikon CX format)
Storage	
Image size (pixels)	Still images (auto, best moment capture, and all creative modes other than Easy panorama; aspect ratio 3:2) 4608 x 3072 3456 x 2304 2304 x 1536 Still images (Normal panorama, camera panned horizontally; aspect ratio 120:23) 4800 x 920 Still images (Normal panorama, camera panned vertically; aspect ratio 8:25) 1536 x 4800 Still images (Wide panorama, camera panned horizontally; aspect ratio 240:23) 9600 x 920 Still images (Wide panorama, camera panned vertically; aspect ratio 4:25) 1536 x 9600 Still images (taken during movie recording, aspect ratio 3:2) 4608 x 3072 (1080/60i, 1080/30p) 1280 x 856 (720/60p, 720/30p) Still images (Motion Snapshots; aspect ratio 16:9) 4608 x 2592
File format	NEF (RAW): 12-bit, compressed 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
Picture Control system	Standard, Neutral, Vivid, Monochrome, Portrait, Landscape; selected Picture Control can be modified; storage for custom Picture Controls

Media	SD (Secure Digital), SDHC, and SDXC memory cards
File system	DCF (Design Rule for Camera File System) 2.0, DPOF (Digital Print Order Format), Exif (Exchangeable Image File Format for Digital Still Cameras) 2.3, PictBridge
Shooting modes	
Shooting modes	auto; creative, with a choice of the following options: P, S, A, M, underwater, night landscape, night portrait, backlighting, easy panorama, soft, miniature effect, and selective color; best moment capture (slow view and Smart Photo Selector), advanced movie (HD-P, S, A, M only-and slow motion), Motion Snapshot
Shutter	
Type	Electronic shutter
Speed	1/16,000-30 s in steps of 1/3 EV; Bulb Note: Bulb ends automatically after approximately 2 minutes
Flash sync speed	Synchronizes with shutter at X=1/60 s or slower
Release	
Modes	Single frame, continuous Self-timer
Frame advance rate	Approx. 5, 15, 30, or 60 fps
Self-timer	2 s, 5 s, 10 s
Exposure	
Metering	TTL metering using image sensor
Metering method	Matrix Center-weighted: Meters 4.5 mm circle in center of frame Spot: Meters 2 mm circle centered on selected focus area
Mode	P programmed auto with flexible program; S shutter priority auto; A aperture-priority auto; M manual; scene auto selector
Exposure compensation	-3-+3 EV in increments of 1/3 EV
Exposure lock	Luminosity locked at metered value when shutter-release button is pressed halfway
ISO sensitivity (Recommended Exposure Index)	ISO 160-6400 in steps of 1 EV; auto ISO sensitivity control (ISO 160-6400, 160-3200, 160-800) available (user controlled when P, S, A, M, or underwater is selected in creative mode)
Active D-Lighting	On, off
Focus	
Autofocus	Hybrid autofocus (phase-detection/contrast-detect AF); AF-assist illuminator
Lens servo	Autofocus (AF): Single AF (AF-S); continuous AF (AF-C); auto AF-S/AF-C selection (AF-A); fulltime AF (AF-F) Manual focus (MF)
AF-area mode	Single-point, single-point (center), auto-area, subject tracking
Focus area	Single-point AF: 135 focus areas; the center 73 areas support phase-detection AF Auto-area AF: 41 focus areas
Focus lock	Focus can be locked by pressing shutter-release button halfway (single AF)
Face priority	On, off
Flash	
Built-in flash	Manual pop-up
Guide Number (GN)	Approx. 5/16 (m/ft, ISO 100, 20 °C / 68 °F; at ISO 160, Guide Number is approx. 6.3/20.7)

Control	i-TTL flash control using image sensor
Mode	Fill flash, red-eye reduction, fill flash + slow sync, red-eye reduction + slow sync, rear curtain + slow sync, rear-curtain sync, off
Flash compensation	-3-+1 EV in increments of 1/3 EV
Flash-ready indicator	Lights when built-in flash unit is fully charged
White balance	Auto, underwater, incandescent, fluorescent, direct sunlight, flash, cloudy, shade, preset manual, all except preset manual with fine tuning
Movie	
Metering	TTL metering using image sensor
Metering method	Matrix Center-weighted: Meters 4.5 mm circle in center of frame Spot: Meters 2 mm circle centered on selected focus area
Frame size (pixels)/ recording rate	HD movies (aspect ratio 16:9) 1920 x 1080 / 60 i (59.94 fields/s*) 1920 x 1080 / 30 p (29.97 fps) 1280 x 720 / 60 p (59.94 fps) 1280 x 720 / 30 p (29.97 fps) Slow-motion movies (aspect ratio 8:3) 640 x 240 / 400 fps (plays at 30 p / 29.97 fps) 320 x 120 / 1200 fps (plays at 30 p / 29.97 fps) Motion Snapshot (aspect ratio 16:9) 1920 x 1080 / 60 p (59.94 fps) (plays at 24 p / 23.976 fps)
File format	MOV
Video compression	H.264 / MPEG-4 Advanced Video Coding
Audio recording format	AAC
Audio recording device	Built-in stereo microphone; sensitivity adjustable
Monitor	
Monitor	7.5 cm (3-in.), approx. 921k-dot, TFT LCD with brightness adjustment
Playback	Full-frame and thumbnail (4, 9, or 72 images or calendar) playback with playback zoom, movie and panorama playback, slide show, histogram display, auto image rotation, and rating option
Interface	
USB	Hi-Speed USB
HDMI output	Type C mini-pin HDMI connector
Electronic compass/location data/altimeter/depth gauge	
Electronic compass	16 headings (with 3-axis accelerometer attitude correction and automatic offset adjustment)
Location data	<ul style="list-style-type: none"> Receiving frequency: 1575.4200 MHz (GPS)/ 1598.0625-1605.3750 MHz (GLONASS) Geodesics: WGS84
Altimeter	Operating range approximately -500-+4500 m (-1640-+14,760 ft)
Depth gauge	Operating range approximately 0-20 m (0-65.6 ft)
Supported languages	
Supported languages	Arabic, Bengali, Bulgarian, Chinese (Simplified and Traditional), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hindi, Hungarian, Indonesian, Italian,

	Japanese, Korean, Marathi, Norwegian, Persian, Polish, Portuguese (European and Brazilian), Romanian, Russian, Serbian, Spanish, Swedish, Tamil, Telugu, Thai, Turkish, Ukrainian, Vietnamese
Power source	
Battery	One rechargeable Li-ion EN-EL20 battery
AC adapter	EH-5b AC adapter; requires EP-5C power connector (available separately)
Tripod socket	1/4-in. (ISO 1222)
Dimensions/Weight	
Dimensions (W x H x D)	Approx. 113.3 x 71.5 x 37.5 mm (4.5 x 2.9 x 1.5 in.), excluding projections
Weight	Approx. 356 g (12.6 oz) with battery and memory card but without body cap or O-ring protector; approx. 313 g (11.1 oz), camera body only
Operating environment	
Temperature	-10 °C -+40 °C (+14 °F-104 °F) on land, 0 °C- +40 °C (+32 °F-104 °F) in water
Humidity	85% or less (no condensation)
Shockproof, waterproof, and dustproof performance	
Shockproof performance ^{1, 2}	Has passed in-house tests ³ to MIL-STD-810F Method 516.5: Shock standard
Waterproof performance ²	In-house tests have demonstrated JIS/IEC Class 8 (IPX8) waterproof performance; can be used at depths of up to 15 m (49 ft) for up to 60 minutes
Operating depth ²	Maximum 15 m (49 ft)
Dustproof performance ²	In-house tests have demonstrated JIS/IEC Class 6 (IP6X) dustproof performance

- * Sensor output is about 60 fps.
 1. Does not apply when built-in flash is raised.
 2. With special-purpose waterproof lens attached.
 3. Using a test method derived from MIL-STD-810F Method 516.5: Shock, the product is dropped from a height of 200 cm (6.6 ft) onto a plywood surface 5 cm (2 in.) thick. Exterior deformation and surface damage are not tested. These in-house tests do not constitute blanket guarantees of invulnerability to damage or destruction.
- Unless otherwise stated, all figures are for a camera with a fully-charged battery operating at the temperature specified by the Camera and Imaging Products Association (CIPA): 23 ±3 °C (73.4 ±5.4 °F).
- Nikon reserves the right to change the specifications of the hardware and software described in this manual at any time and without prior notice. Nikon will not be held liable for damages that may result from any mistakes that this page may contain.