



VERSATILITY MEETS AGILITY

CAPTURE TOMORROW

D780



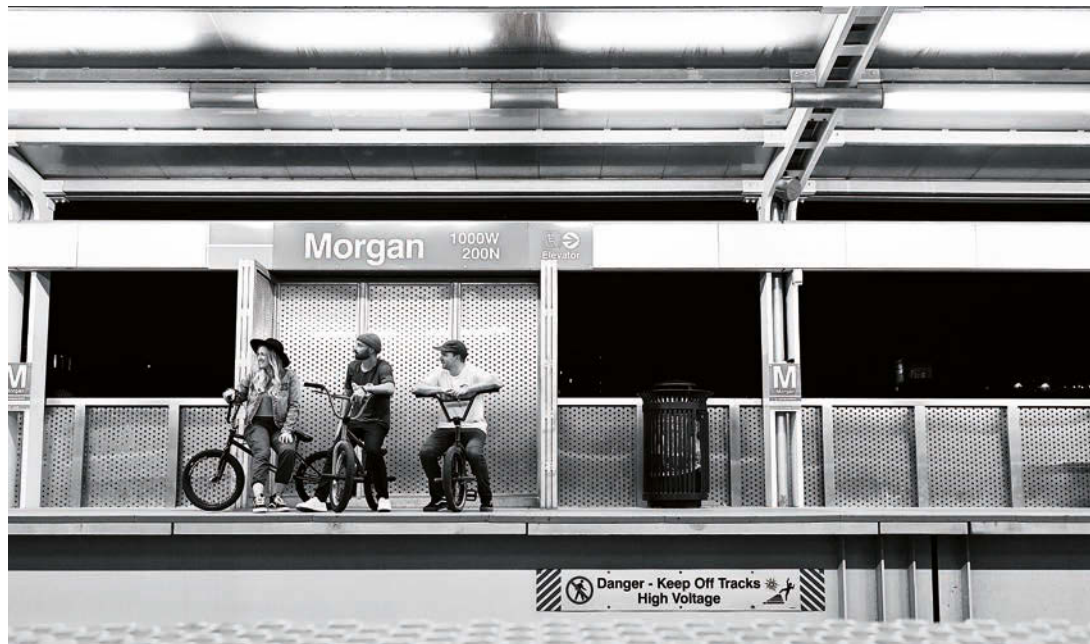


D780

UNLIMITED POSSIBILITIES

From capturing fast-moving action to jaw-dropping time-lapse sequences and rich 4K videos, Nikon's new D780 FX-format D-SLR lets your vision take flight. The long-awaited successor to the D750 has the same robust yet agile body, while packing even more heavyweight performance. Its 51-point AF system detects and tracks subjects more tenaciously, thanks to innovations including a new AF algorithm adapted from the flagship D5. It is the first Nikon D-SLR to incorporate focal-plane phase-detection AF, bringing huge enhancements in live view shooting, with wide 273-point coverage and eye-detection AF. And the possibilities don't end there: it offers a rich array of advanced image-making options, from improved time-lapse movies to shutter speeds of 1/8000 to 900 s, and diverse movie functions including 4K UHD/30p with HDR (HLG) support. Combined with the effortless handling of a touch-operable LCD, the D780 lets you stay nimble, and seize every imaging opportunity.





© Ryan Taylor

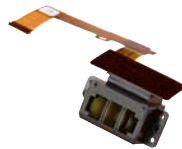


© Ryan Taylor



More powerful detection and tracking of moving subjects — 51-point AF system with optical viewfinder

The D780's 51-point AF performance has been noticeably enhanced, thanks to the powerful EXPEED 6 image-processing engine and the detailed subject information by the Advanced Scene Recognition System with the upgraded 180K-pixel RGB sensor. Combined with a new AF algorithm adapted from the flagship D5, this enables it to deliver more tenacious tracking in 3D-tracking mode, as well as improved subject detection in auto-area AF. Even when capturing fast, erratically moving subjects in challenging lighting conditions, the D780 gives you the tools — and confidence — to get the shot.

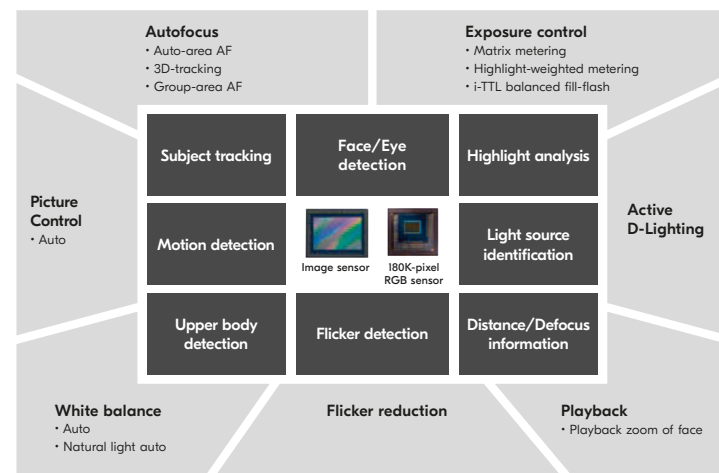


Enhanced accuracy for auto controls — 180K-pixel RGB sensor for Advanced Scene Recognition System

The D780 incorporates a range of auto controls to help you obtain optimum results, using the Advanced Scene Recognition System and the increased pixel count of the camera's 180K-pixel RGB sensor to enhance their accuracy. Furthermore, metering is available down to -3 EV*, thanks to the sensor's superb sensitivity, which is effective when shooting low-light scenes. The system also makes it possible to achieve effective flicker reduction, which is now available in live view shooting, as well as movie recording and viewfinder photography.

*ISO 100, f/1.4, 20°C/68°F, using matrix or center-weighted metering.

Advanced Scene Recognition System



Extend your vision — Reliable low-light AF in both viewfinder and live view shooting

The D780 offers AF down to -3 EV*¹ during viewfinder photography, making it possible to capture sharp images of moving subjects even under low light. And with the low-light AF function activated, AF is available down to an incredible -7 EV*² when shooting stills in live view.

*1 ISO 100, 20°C/68°F

*2 In still photography at f/1.4, ISO 100, 20°C/68°F using AF-S.



Radically improved AF in live view shooting and movie recording — 273-point hybrid AF system with focal-plane phase-detection AF

The new hybrid AF system delivers an evolutionary leap in focusing performance during live view shooting and movie recording. The coverage is extremely wide — approx. 90% of the frame both horizontally and vertically with 273 focus points* — allowing the camera to focus even on subjects in the periphery. Combined with the tilting LCD monitor, this AF capability lets even experienced D-SLR users discover a range of fresh approaches, transforming the way they create stills and movies.

* In live-view still photography in FX format with all points selectable in single-point AF.

Effortless candid portraits — Eye-detection AF

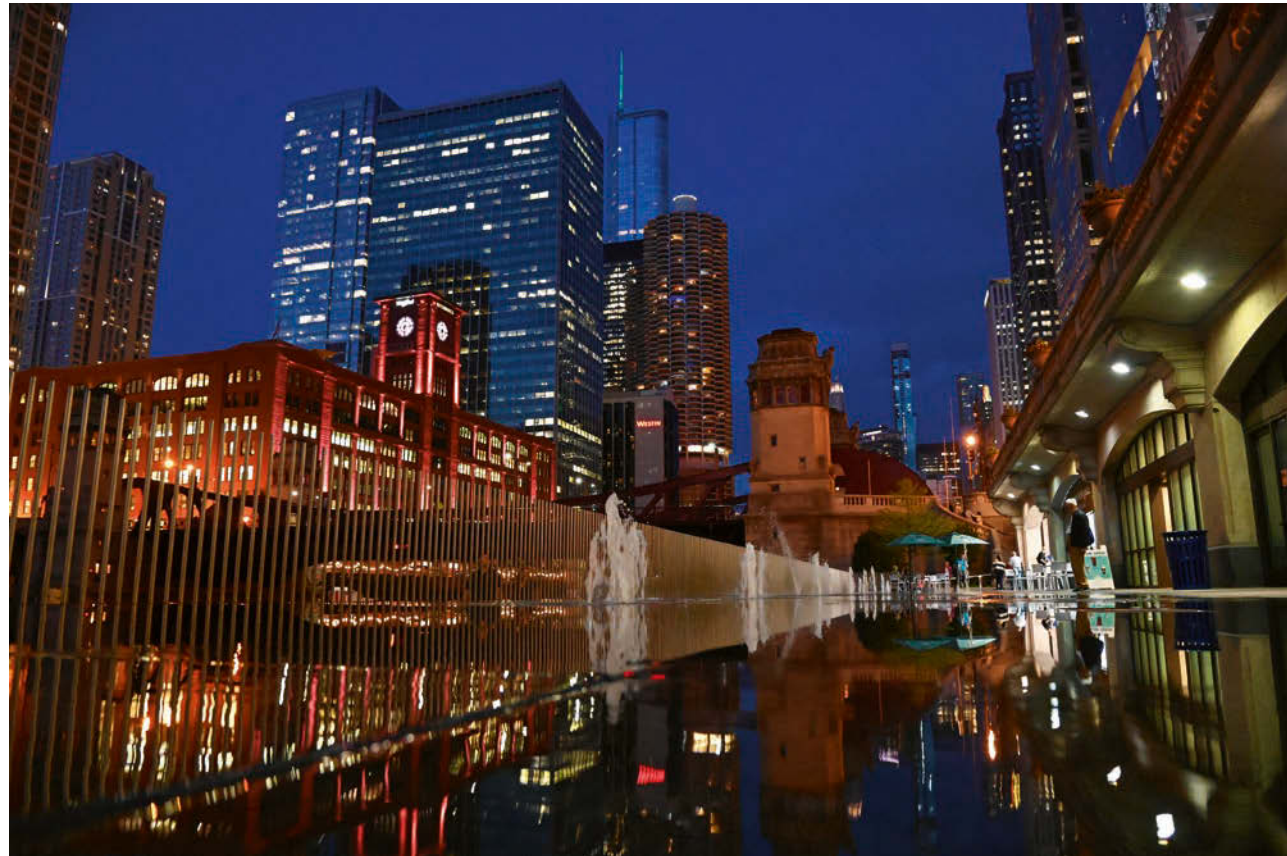
Eye-detection AF is available when shooting stills in live view, using auto-area AF. In AF-C mode, half-pressing the shutter release button allows you to track the eye of a moving subject, for capturing truly candid portraits. When multiple eyes are detected, you can select which one to focus on using the multi selector.



Separately adjust wide and telephoto ends of zoom lenses — AF fine-tune

AF fine-tune allows you to make subtle adjustments for each type of lens you use to ensure focusing accuracy in stills and movies. In viewfinder photography, you can use the auto AF fine-tuning feature to let the camera automatically acquire and store the AF tuning value.

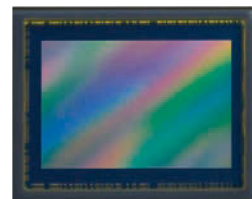




• Lens: AF-S NIKKOR 24-120mm f/4G ED VR • Exposure: [M] mode, 1/60 s, f/5.6 • White balance: Auto 1 • Sensitivity: ISO 10000 © Ryan Taylor
• Picture Control: Standard

Exceptional image quality, especially under low light — Backside illumination CMOS sensor featuring 24.5 effective megapixels and ISO 100-51200

At the heart of the D780 is an FX-format backside illumination CMOS sensor featuring 24.5 effective megapixels, which strikes an optimal balance between image quality and low-light performance. Its design allows incoming light to reach photodiodes more efficiently, meaning the D780 can achieve a standard sensitivity range of ISO 100-51200 (expandable to ISO 50-204800 equivalent) with advanced image processing by EXPEED 6. The D780 is also the first Nikon D-SLR to incorporate focal-plane phase-detection AF, delivering faster, more accurate AF during live view shooting and movie recording.



Quickly create a more artistic look for stills and movies — Creative Picture Control

The D780 features 20 Creative Picture Controls that can be used to give an artistic look to your stills and movies instantly. Adjustable effect levels encourage you to explore your creativity further.

Creative Picture Controls:

Dream / Morning / Pop / Sunday / Sombre / Dramatic / Silence / Bleached / Melancholic / Pure / Denim / Toy / Sepia / Blue / Red / Pink / Charcoal / Graphite / Binary / Carbon

Crisper definition in stills and movies — EXPEED 6

The D780's EXPEED 6 image-processing engine is designed to bring more sharpness to your images while effectively reducing noise, allowing the camera to achieve a maximum standard sensitivity of ISO 51200. Its extraordinary calculating power also permits high-speed continuous shooting at approx. 7 fps with AF/AE tracking, as well as full-frame, 4K UHD/30p movie recording.



© Simone Cmoon

More faithful color reproduction under natural light — Natural light auto white balance option

The D780 incorporates a “natural light auto” white balance mode, taking advantage of the Advanced Scene Recognition System's improved light source identification function. This option delivers optimal white balance results under natural light, making it possible to respond quickly to changes in weather conditions without switching to the “direct sunlight” or “cloudy” options. When shooting a scene such as an autumnal landscape awash with red leaves or a spectacular orange sunset, it also enhances the warm colors, helping create even more impressive pictures.

More effective sharpness adjustments — Mid-range sharpening and “quick sharp” for Picture Controls

Nikon's Picture Control system helps you craft images that match your creative intentions and purposes. The D780 incorporates a mid-range sharpening parameter alongside the existing clarity parameter (which adjusts overall sharpness) and sharpening (which adjusts the appearance of details and patterns). Used together, they give you finer control over the various textures within the frame to make them look sharper or softer. And if you want a simpler way to control all three parameters, “quick sharp” lets you adjust them with a single slider.

Greater white balance precision — Preset manual and spot white balance

When shooting under mixed lighting, you may prefer to set a custom white balance using preset manual. The D780 now lets you measure an even smaller area when doing so in viewfinder shooting (equivalent to 3 × 3 focus points at the center of AF coverage), for greater accuracy. This eliminates the need to prepare a reference object or to switch to live view mode. Meanwhile, in live view shooting, you can measure white balance from any white or gray area in the frame using the spot white balance function.





Capture fleeting moments — 7 fps continuous shooting

The D780 captures 24-megapixel images at up to approx. 7 fps^{*1}, while providing a clear, real-time view of your subject through the optical viewfinder. The newly employed mirror-down balancer minimizes mechanical vibration and stabilizes the viewfinder image. Data from the image sensor is handled rapidly by the powerful EXPPEED 6 image-processing engine, allowing continuous shooting for up to approx. 68 frames^{*2} in 14-bit lossless compressed RAW — almost four times more than the D750.

^{*1} In AF-C, S or M mode, shutter speed 1/250 or faster, and all other settings at factory default settings.
^{*2} ISO 100, when using a Sandisk Extreme Pro UHS-II SD memory card and EN-EL15b Rechargeable Li-ion battery.

Freeze split-second motion — 120-fps High-speed Frame Capture

When you want to discover even more in a fast-moving scene, the D780's High-speed Frame Capture — available during movie live view mode — allows you to take 2-megapixel^{*1} images at up to an incredible 120 fps with AE/AF, as well as 8-megapixel^{*2} images at up to 30 fps. Now you can see the moments between the movement during action sequences, like the moment a runner leaves the starting blocks or a diver hits the water. It brings split-second action that even a flagship camera would struggle to capture within your reach.

^{*1} With Full-HD selected for frame size.
^{*2} With 4K UHD selected for frame size.



Nail a shot without any mechanical vibration or shutter click — Silent photography

There are times when the sound of a shutter might ruin the atmosphere. The D780's silent photography function^{*} in live view mode lets you capture every last detail discreetly. It does this by utilizing an electronic shutter instead of triggering any mirror or shutter movement, meaning it doesn't cause any mechanical vibration. Silent continuous shooting in 12-bit RAW at up to approx. 12 fps with AE/AF tracking is also available.

^{*} Aperture drive and VR sounds may occur. Rolling shutter distortion may occur during silent photography of moving subjects.





**Clear and sharp video footage —
Full-frame 4K UHD and Full HD 120p/100p**

The D780 lets you film breathtaking 4K UHD/30p videos with a wide angle of view and beautiful bokeh, making full use of the FX-based movie image area, without any crop. The camera offers Full HD 120p/100p^{*1} recording, including audio capture, providing more options in post-production. Instant dramatic expression is also possible, with the ability to process Full HD ×4 and ×5 slow motion in-camera. Moreover, the 231 AF points^{*2} cover a wide area for added flexibility.

^{*1} Fixed at FX-based movie format. Face detection is not available in auto-area AF.
^{*2} In FX-based movie format with single-point AF.
(Frame from 4K video)

**Stunning colors in 4K UHD with HDR —
Hybrid Log Gamma (HLG) support**

The D780 lets you produce 4K UHD HDR videos with more realistic, beautiful colors and rich details in shadows and highlights, thanks to Hybrid Log Gamma (HLG) support, available during 10-bit HDMI output recording. This HDR video format is particularly convenient when you need to quickly deliver high-quality video for HLG-compatible TV and monitors, without the need for post-production color grading. The camera also has a “view assist” function that applies simple gradation compensation to the flat footage being recorded, and displays it on the LCD monitor, which is convenient if you don’t have a compatible monitor to check it on.

Note: Simultaneous recording to memory card is not available.

**Richer tonality for professional post-production —
10-bit N-Log**

If you’re looking to produce professional-quality video pieces, N-Log is your ideal partner, letting you take advantage of an extensive color depth range in 4:2:2 10-bit HDMI output. It captures up to approx. 1.07 billion colors with a wide 1300%, 12 stops of dynamic range, recording richer gradation information in highlights and shadows to allow for more effective color grading. The camera’s “view assist” function offers a useful way of confirming the approximate look of the footage while recording with N-Log.

Note: Simultaneous recording to memory card is not available.

**Accurate manual focus confirmation —
Focus peaking display in 4K UHD**

Many professional videographers use manual focus to give their movies a unique look. The D780’s focus peaking display — available in 4K UHD, as well as Full HD — allows precise confirmation of focus when doing so, by detecting the scene’s highest-contrast edges and highlighting them in a designated color. You can choose to display highlights in red, yellow, blue or white, according to your subject’s own coloration, and adjust between three levels of detection sensitivity. For added convenience, this peaking information will not be recorded on external devices connected via HDMI.



**Enhanced image quality in 4K UHD —
Active D-Lighting and eVR**

Active D-Lighting is now available in 4K UHD recording, preserving details in highlights and shadows even when shooting under harsh sunlight. Electronic vibration reduction is also supported in 4K UHD, providing a sharp image with minimum blur.

**Advanced functions for more professional
videography — Timecode recording and Atomos
Open Protocol**

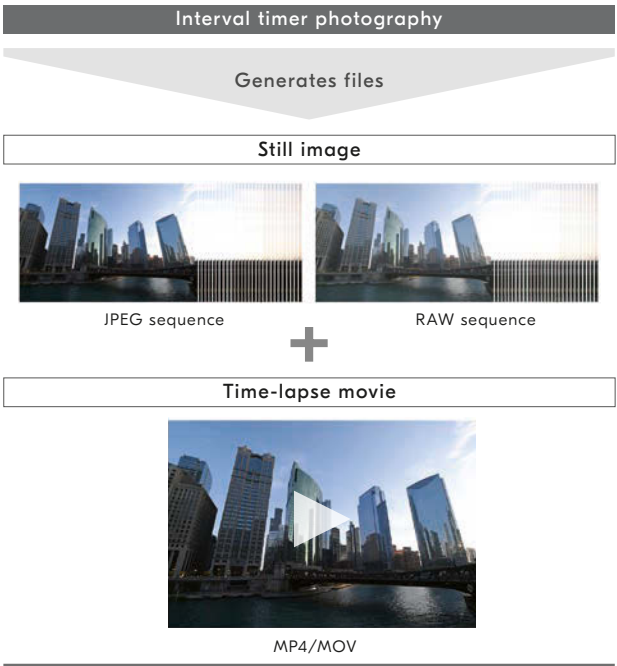
The D780 can be incorporated into more complex movie shoots. The camera can record a timecode^{*1} in video data, as well as including it with footage saved to an external recorder^{*2} via HDMI, for easier synchronization of footage and sounds from multiple devices in post-production. Drop frame support is also available. Additionally, the D780 is compatible with Atomos Open Protocol, and syncs the start/stop of 4K UHD and Full HD recording on the in-camera memory card and a connected HDMI recorder^{*3} when the camera’s movie-recording button is pressed.

^{*1} Not available when shooting slow-motion movies, or with photo illustration/minature effects applied.
^{*2} Atomos Monitor Recorders (SHOGUN, NINJA, SUMO series), etc. are supported.
^{*3} When using a third-party recorder which supports Atomos Open Protocol.

**Spectacular time-lapse movies, in-camera —
Interval timer and time-lapse photography**

Using interval timer photography to make time-lapse movies typically requires post-processing on a computer. But with the D780, it’s possible to create time-lapse sequences in-camera^{*1} using interval timer mode, and instantly confirm — and share — the results. Movies are created in 16:9 aspect ratio, while the camera also saves the individual frames. In both interval timer shooting and conventional time-lapse photography, Nikon’s unique exposure smoothing function^{*2} reduces subtle exposure variations between frames, which can create unattractive flickering effects when converted into video. What’s more, when used with silent mode, it extends the camera’s exposure metering capability beyond the -3 EV^{*3} available during regular shooting. This lets photographers use A mode or other auto exposure modes to shoot scenes where brightness changes significantly, such as a sky transitioning from sunset to midnight, all in one continuous sequence.

^{*1} Interval timer photography is not available when activating this option with 1:1 image area selected.
^{*2} Also available in focus shift photography.
^{*3} ISO 100, f/1.4, 20°C/68°F.





NIKKOR

Superior optical quality and abundant creative options — NIKKOR F lenses

NIKKOR lenses are powerful tools for photographers looking to get brilliantly sharp images regardless of the subject, environment or lighting conditions. With the D780, you have access to a vast selection of native F-mount lenses, ranging from macro to super-telephoto — offering an almost limitless array of creative possibilities. Thanks to Nikon's superb optical technology, each provides sharp resolution even at the periphery of the image, combined with elaborately designed, beautiful bokeh. Many lenses feature the anti-reflective Nano Crystal Coat, which effectively reduces ghost and flare, and are also designed to reproduce point light sources as point images as much as possible.

110
million
NIKKOR

NIKKOR F LENSES



© Simone Cmoon

AF-S VR Micro-Nikkor 105mm f/2.8G IF-ED

This medium telephoto micro has VR with an effect equivalent to 3.0 stops* for easy handheld macro shooting. The lens delivers crisp yet natural images in any genre of photography. The longer focal length gives it a great working distance when shooting close-ups of flowers, insects and other small wildlife, and it also takes fantastic portraits.



© Ryan Taylor

AF-S NIKKOR 200-500mm f/5.6E ED VR

This super-telephoto zoom lens covers a 200-500 mm focal length range with a fixed maximum aperture of f/5.6. It incorporates three ED glass elements to achieve superior optical performance with minimal chromatic aberration throughout the entire zoom range. Its Vibration Reduction (VR) system provides an effect equivalent to a shutter speed 4.5 stops* faster in Normal mode, while the additional Sport mode option is ideal for quick movements. An electromagnetic diaphragm mechanism ensures stable AE control even during high-speed continuous shooting, making it possible to capture decisive moments when shooting wild birds or flying aircraft.



© Ryan Taylor

AF-S Fisheye NIKKOR 8-15mm f/3.5-4.5E ED

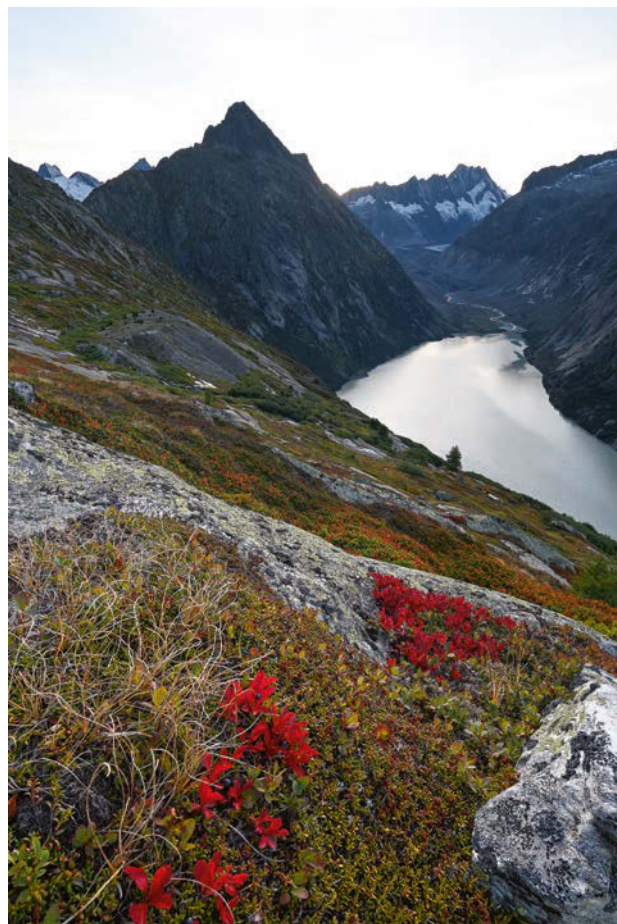
This fisheye zoom lens provides both circular and full-frame fisheye effects for elaborate image expression. Three ED glass elements reduce lateral chromatic aberration to deliver sharp and high-contrast images. For enhanced reliability, a dust- and drip-resistant structure is employed, while a fluorine coat ensures easy maintenance.

* Based on CIPA Standard. This value is achieved when attached to a FX-format digital SLR camera, with zoom set at the maximum telephoto position.

More convenient focus stacking – Focus shift photography

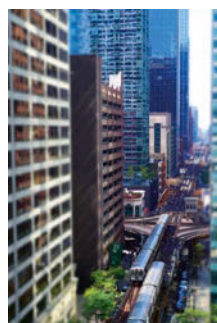
When shooting a scene containing various subjects at different focal distances, or creating specimen pictures of insects and flowers, photographers may want to bring everything into sharp focus. The D780's focus shift photography function enables you to shoot sequences of up to 300 frames, which can be combined in post-production focus stacking* to create an image with everything in brilliantly sharp focus. The camera automatically shifts focus position from the start point to infinity, with the focus step width selectable from 10 levels. Silent focus shift photography is also available, if you want to minimize the risk of mechanical blur.

*Requires third-party editing software.



© Simone Cmoon

Transform the look and feel of images – Special Effects mode



© Ryan Taylor

Special Effects are a way to make your stills or videos more eye-catching. The D780 offers 10 exciting special effect options, and for 6 of them (super vivid, pop, photo illustration, toy camera effect, miniature effect and selective color), the camera saves the RAW image at the same time as creating a JPEG with the effect applied, letting you retain complete flexibility in post-processing.

Quick in-camera editing – Retouch menu

The D780's extensive in-camera retouch menu offers more flexible resizing and trimming options. It is now possible to trim images from horizontal to vertical and to resize images in 1:1 and 16:9 aspect ratios. What's more, the lighten and darken overlay modes are now part of the menu, allowing you to combine any shots – and not just images that were taken consecutively.

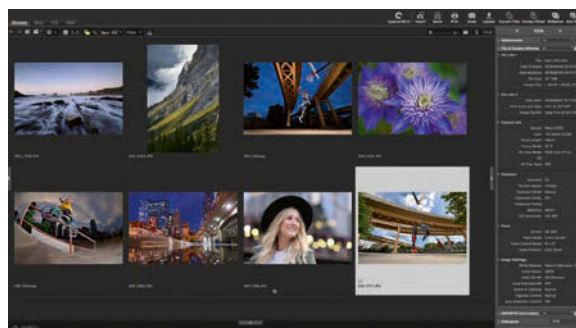


RAW file processing and optimal management of still images and movies – Capture NX-D and ViewNX-i (free download)

Nikon's Capture NX-D software is the best way to process original RAW (NEF/NRW) files without losing any of their extremely rich data. You can adjust options such as exposure compensation, white balance, Picture Control, Active D-Lighting and noise reduction using a slider. It also incorporates color control points that let you edit the hue, brightness, saturation, contrast, etc. of a selected area, and supports JPEG and TIFF. Meanwhile, ViewNX-i allows browsing and simple editing of JPEG, RAW and movie files, including 4K UHD footage. It also lets users save a frame from a movie as a still image.



Capture NX-D



ViewNX-i



Clearly confirm your view in real time – Optical viewfinder

With approx. 0.7× magnification* and 100% coverage, improved optics provide even clearer, more comfortable viewing of the entire frame. What's more, a new mirrordown balancer minimizes mechanical vibration, stabilizing the viewfinder image during continuous shooting.



*50mm f/1.4 lens at infinity, -1.0 m

Up to 2,260 shots per charge – Long battery life

The D780's EN-EL15b Rechargeable Li-ion Battery allows you to shoot up to approx. 2,260 shots or approx. 95 minutes of movies per single charge.



Intuitive live view operation – Touch-operable, tilting 8-cm/3.2-in., 2359k-dot monitor

The D780's touch-operable, tilting LCD monitor takes the live view experience to a new level, combining touch AF and fast hybrid AF to enable more intuitive, effective shooting for both stills and movies. Checking focus on the 3.2-in., 2359k-dot XGA monitor is easier, as the image enlarges when you pinch out.

RAW image transfers to smart devices & new filtering settings – SnapBridge ver. 2.6

The new SnapBridge ver. 2.6 allows transfers of RAW images to smart devices connected directly to the camera via Wi-Fi, while introducing filtering settings that make it easier to find images. Using your smart device as a remote controller, you can shoot/playback* stills and movies, and half-press the camera's shutter release button to perform operations such as achieving focus. It is also possible to start/stop interval timer photography, time-lapse movie recording and focus shift shooting.



SnapBridge

*Playback operation is only available via Bluetooth connection.

Reliable performance even in challenging conditions – Durable body with dust and drip resistance

The D780's body ensures comfortable handling, with a secure, easy-to-hold grip and optimized button layout for smooth operation. By employing a monocoque structure with magnesium alloy for the rear and top covers, it achieves a rugged frame while reducing overall size and weight. Comprehensive sealing is also applied to keep the camera protected against dust and water.



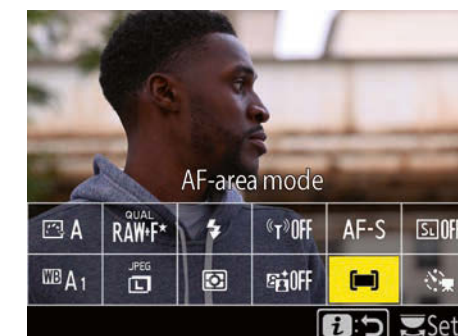
Options for improved workflow efficiency – Double SD card slots

The D780 features double UHSII compatible SD card slots, bringing greater flexibility and peace of mind.



Instant setting changes – Flexible i menu operation with new GUID

The D780 features a new Graphical User Interface (GUI) that incorporates a more flexible and easy-to-navigate i menu. Users can select all 12 functions assigned to the i menu, and customize the layout differently for still image shooting and video recording, according to their needs.



SPECIFICATIONS	
Type of camera	Single-lens reflex digital camera
Lens mount	Nikon F mount (with AF coupling and AF contacts)
Effective angle of view	Nikon FX format
Effective pixels	24.5 million
Image sensor	35.9 × 23.9 mm CMOS sensor
Total pixels	25.28 million
Dust-reduction system	Image sensor cleaning, Image Dust Off reference data (Capture NX-D software required)
Image size (pixels)	• FX (36×24) image area: 6048 × 4024 (L: 24.3 million), 4528 × 3016 (M: 13.7 million), 3024 × 2016 (S: 6.1 million) • DX (24×16) image area: 3936 × 2624 (L: 10.3 million), 2944 × 1968 (M: 5.8 million), 1968 × 1312 (S: 2.6 million) • 1 : 1 (24×24) image area: 4016 × 4016 (L: 16.1 million), 3008 × 3008 (M: 9.0 million), 2000 × 2000 (S: 4.0 million) • 16 : 9 (36×20) image area: 6048 × 3400 (L: 20.6 million), 4528 × 2544 (M: 11.5 million), 3024 × 1696 (S: 5.1 million) • Photographs taken while filming movies at a frame size of 3840 × 2160; 3840 × 2160 • Photographs taken while filming movies at other frame sizes: 1920 × 1080
File format	• NEF (RAW): 12 or 14 bit (lossless compressed or compressed) • 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
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
Storage media	SD (Secure Digital) and UHS-II compliant SDHC and SDXC memory cards
Double card slots	The card in Slot 2 can be used for overflow or backup storage or for separate storage of NEF (RAW) and JPEG images; pictures can be copied between cards.
File system	DCF 2.0, Exif 2.31
Viewfinder	Eye-level pentaprism single-lens reflex viewfinder
Frame coverage	• FX: Approx. 100% horizontal and 100% vertical • DX: Approx. 97% horizontal and 97% vertical • 1:1: Approx. 97% horizontal and 100% vertical • 16:9: Approx. 100% horizontal and 97% vertical
Magnification	Approx. 0.7× (50 mm f/1.4 lens at infinity, -1.0 m ⁻¹)
Eyepoint	21 mm (-1.0 m ⁻¹ ; from center surface of viewfinder eyepiece lens)
Dioptr adjustment	-3 to +1 m ⁻¹
Focusing screen	Type B BriteView Clear Matte Mark VIII screen (with AF-area brackets; framing grid can be displayed)
Reflex mirror	Quick return
Depth-of-field preview	Pressing Pv button stops lens aperture down to value selected by user (A and M modes) or by camera (P and S modes)
Lens aperture	Instant return, electronically controlled
Compatible lenses	• AF NIKKOR lenses, including type G, E and D lenses (some restrictions apply to PC lenses) • Other AF NIKKOR lenses (excluding IX NIKKOR lenses and lenses for the F3AF) • AI-P NIKKOR lenses • DX lenses (using [DX 24×16] image area) • Non-CPU AI lenses (exposure modes A and M only) During viewfinder photography, the electronic rangefinder can be used with lenses that have a maximum aperture of f/5.6 or faster. With lenses that have a maximum aperture of f/8 or faster, the electronic rangefinder supports 11 focus points
Shutter type	Electronically controlled vertical-travel focal-plane mechanical shutter; electronic front-curtain shutter; electronic shutter
Shutter speed	1/8000 to 30 s in steps of 1/3 or 1/2 EV, extendable to 900 s in mode M; Bulb; Time; X200
Flash sync speed	X=1/200 s; synchronizes with shutter at 1/200 s or slower; auto FP high-speed sync supported

Release modes	S (single frame), CL (continuous low speed), CH (continuous high speed), Q (quiet shutter-release), QC (quiet continuous shutter-release), Ⓢ (self-timer), MUP (mirror up)
Approximate frame advance rate	• CL : 1 to 6 fps (viewfinder photography); 1 to 3 fps (live view photography) • CH : 7 fps; when shooting NEF/RAW pictures during silent photography, either 8 fps (bit depth 14 bits) or 12 fps (bit depth 12 bits) • QC : 3 fps
Self-timer	2 s, 5 s, 10 s, 20 s; 1 to 9 exposures at intervals of 0.5, 1, 2 or 3 s
Exposure metering system	• Viewfinder photography: TTL exposure metering using RGB sensor with approx. 180K (180,000) pixels • Live view: TTL exposure metering performed by image sensor
Exposure metering modes	• Matrix: 3D color matrix metering III (type G, E and D lenses); color matrix metering III (other CPU lenses); color matrix metering available with non-CPU lenses if user provides lens data • Center-weighted: Weight of 75% given to 12 mm circle in center of frame; diameter of circle can be changed to 8, 15 or 20 mm, or weighting can be based on average of entire frame (non-CPU and AF-S Fisheye NIKKOR 8-15mm f/3.5-4.5E ED lenses use 12-mm circle) • Spot: Meters circle approx. 4 mm in diameter (about 1.5% of frame) centered on selected focus point (on center focus point when non-CPU or AF-S Fisheye NIKKOR 8-15mm f/3.5-4.5E ED lens is used) • Highlight-weighted: Available with type G, E and D lenses
Metering range (ISO 100, f/1.4 lens, 20°C/68°F)	• Matrix or center-weighted metering: -3 to +20 EV • Spot metering: 2 to +20 EV • Highlight-weighted metering: 0 to +20 EV
Exposure meter coupling	Combined CPU and AI
Exposure modes	Ⓢ Auto; P programmed auto with flexible program; S shutter-priority auto; A aperture-priority auto; M manual • EFCT Special effect modes: 🌃 night vision; VI super vivid; POP pop; 📷 photo illustration; 🧸 toy camera effect; 👤 miniature effect; 🖌 selective color; 👤 silhouette; 🖼 high key; 🖼 low key • U1 and U2 : user settings
Exposure compensation	Available in P , S , A , M and EFCT modes, -5 to +5 EV; -3 to +3 EV when filming movies; in increments of 1/3 or 1/2 EV
Exposure lock	Luminosity locked at detected value
ISO sensitivity (Recommended Exposure Index)	ISO 100 to 51200 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 50 equivalent) below ISO 100 or to approx. 0.3, 0.5, 0.7, 1 or 2 EV (ISO 204800 equivalent) above ISO 51200; auto ISO sensitivity control available
Active D-Lighting	Can be selected from auto, extra high, high, normal, low or off
Autofocus type	• Viewfinder photography: TTL phase detection performed using Advanced Multi-CAM 3500 II autofocus sensor module with support for 51 focus points (including 15 cross-type sensors; f/8 supported by 11 sensors); autofocus fine-tuning supported • Live view: Hybrid phase-detection/contrast-detect AF performed by image sensor; autofocus fine-tuning supported
AF detection range (ISO 100, 20°C/68°F)	• Viewfinder photography: -3 to +19 EV • Live view: -5 to +19 EV; -7 to +19 EV with low-light AF; still photography using single-servo AF (AF-S) and apertures of f/1.4 at dark end of range and f/5.6 at bright end of range
Lens servo	• Autofocus (AF): Single-servo AF (AF-S); continuous-servo AF (AF-C); AF mode auto-switch (AF-A, still photography only); full-time AF (AF-F, movie recording only); predictive focus tracking activated automatically according to subject status • Manual focus (M): Electronic rangefinder can be used
Focus point	• Viewfinder photography: 51 points with [All points] selected for Custom Setting a6 [Focus points used], 11 points with [Every other point] selected • Live view: 273 points with [All points] selected for Custom Setting a6 [Focus points used], 77 points with [Every other point] selected; still photography, [FX (36×24)] image area, single-point AF

AF-area modes	• Viewfinder photography: Single-point AF, 9-, 21-, or 51-point dynamic-area AF, 3D-tracking, group-area AF, auto-area AF • Live view: Pinpoint AF (still photography only, single-servo AF/AF-S), single-point AF, dynamic-area AF (still photography only, continuous-servo AF/AF-C), wide-area AF (S), wide-area AF (L), auto-area AF
Focus lock	Focus can be locked by pressing shutter-release button halfway (single-servo AF/AF-S) or by pressing AE-L/AF-L button
Flash control	• Viewfinder photography: TTL flash control performed by RGB sensor with approx. 180K (180,000) pixels • Live view photography: TTL flash control performed by image sensor • i-TTL balanced fill-flash for D-SLR available with matrix, center-weighted, and highlight-weighted metering; standard i-TTL fill-flash for D-SLR available with spot metering
Flash modes	Front-curtain sync, red-eye reduction, slow sync, red-eye reduction with slow sync, rear-curtain sync, off
Flash compensation	Available in P , S , A , and M modes, -3 to +1 EV in increments of 1/3 or 1/2 EV
Flash-ready indicator	Lights when optional flash unit is fully charged; blinks 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, modeling illumination, FV lock, Color Information Communication, auto FP high-speed sync, AF-assist for multi-area AF (viewfinder photography), unified flash control
Sync terminal	AS-15 Sync Terminal Adapter (available separately)
White balance	Auto (3 types), natural light auto, direct sunlight, cloudy, shade, incandescent, fluorescent (7 types), flash, choose color temperature (2500 K to 10000 K), preset manual (up to 6 values can be stored, spot white balance measurement available during live view photography), all except choose color temperature with fine-tuning
Bracketing types	Exposure and/or flash, white balance, and ADL
Live view modes	📷 (photo live view), 🎬 (movie live view)
Movie metering system	TTL metering using camera image sensor
Movie metering modes	Matrix, center-weighted, or highlight-weighted
Frame size (pixels) and frame rate	• 3840 × 2160 (4K UHD); 30p (progressive), 25p, 24p • 1920 × 1080; 120p, 100p, 60p, 50p, 30p, 25p, 24p • 1920 × 1080 (slow-motion); 30p x4, 25p x4, 24p x5 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 × 2160, 1920 × 1080 120p/100p, and 1920 × 1080 slow-motion, when quality is fixed at ★ (high)
File format	MOV, MP4
Video compression	H.264/MPEG-4 Advanced Video Coding
Audio recording format	Linear PCM, AAC
Audio recording device	Built-in stereo or external microphone with attenuator option; sensitivity adjustable
Movie ISO sensitivity (Recommended Exposure Index)	Manual selection (ISO 100 to 51200 in steps of 1/3 or 1/2 EV) with additional options available equivalent to approx. 0.3, 0.5, 0.7, 1, or 2 EV (ISO 204800 equivalent) above ISO 51200; auto ISO sensitivity control (ISO 100 to Hi 2) available with selectable upper limit
Movie Active D-Lighting	Can be selected from extra high, high, normal, low or off
Other movie options	Time-lapse movie recording, electronic vibration reduction, time codes, logarithmic (N-Log) and HDR (HLG) movie output
Monitor	8-cm/3.2-in., approx. 2359k-dot (XGA) tilting TFT touch-sensitive LCD with 170° viewing angle, approx. 100% frame coverage, 11-level manual brightness adjustment, and color balance control
Playback	Full-frame and thumbnail (4, 9 or 72 images or calendar) 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, auto image rotation and index marking
USB	Type C USB connector (SuperSpeed USB); connection to built-in USB port is recommended

HDMI output	Type C HDMI connector
Audio input	Stereo mini-pin jack (3.5-mm diameter; plug-in power supported)
Audio output	Stereo mini-pin jack (3.5-mm diameter)
Accessory terminal	Built-in (can be used with accessories such as the MC-DC2 Remote Cord)
Wi-Fi	• Standards: IEEE 802.11b/g/n (Africa, Asia, Oceania); IEEE 802.11b/g/n/a/ac (Europe, U.S.A., Canada, and Mexico); IEEE 802.11b/g/n/a (other countries in the Americas) • Operating frequency: 2412 to 2462 MHz (channel 11) (Africa, Asia, Oceania); 2412 to 2462 MHz (channel 11) (Africa, Asia, Oceania); 2412 to 2462 MHz (channel 11) and 5180 to 5805 MHz (other countries in the Americas); 2412 to 2462 MHz (channel 11) and 5745 to 5805 MHz (Georgia); 2412 to 2462 MHz (channel 11) and 5180 to 5320 MHz (other European countries) • Maximum output power (EIRP): 2.4 GHz band: 2.9 dBm; 5 GHz band: 5.7 dBm (Georgia); 5 GHz band: 8.7 dBm (other countries) • Authentication: Open system, WPA2-PSK
Bluetooth	• Communication protocols: Bluetooth Specification Version 4.2 • Operating frequency: 2402 to 2480 MHz (Bluetooth), 2402 to 2480 MHz (Bluetooth Low Energy) • Maximum output power (EIRP): -2.6 dBm (Bluetooth), -4.1 dBm (Bluetooth Low Energy)
Range (line of sight)	Approx. 10 m/32 ft without interference; range may vary with signal strength and presence or absence of obstacles
Battery	One EN-EL15b Rechargeable Li-ion Battery; EN-EL15a/EN-EL15 batteries can also be used Fewer pictures may sometimes be taken on a single charge with the EN-EL15 than with an EN-EL15b/EN-EL15a; EH-7P Charging AC Adapter can be used to charge EN-EL15b batteries only
AC adapter	EH-5d/EH-5c/EH-5b AC Adapter; requires EP-5B Power Connector (available separately)
Tripod socket	1/4 in. (ISO 1222)
Dimensions (W × H × D)	Approx. 143.5 × 115.5 × 76 mm/5.7 × 4.6 × 3 in.
Weight	Approx. 840 g/1 lb. 13.7 oz. with battery and SD memory card but without body cap; approx. 755 g/1 lb. 10.7 oz. (camera body only)
Operating environment	Temperature: 0°C to 40°C (32°F to 104°F); Humidity: 85% or less (no condensation)
Supplied accessories (may differ by country or area)	EN-EL15b Rechargeable Li-ion Battery, MH-25a Battery Charger, DK-5 Eyepiece Cap, UC-E24 USB Cable, AN-DC-21 Strap, BF-1B Body Cap, DK-31 Rubber Eyecup

• The SD, SDHC and SDXC logos are trademarks of SD-3C, LLC. • HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. • Wi-Fi® and the Wi-Fi logo are trademarks or registered trademarks of the Wi-Fi Alliance®. • The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Nikon Corporation is under license. • Other products and brand names are trademarks or registered trademarks of their respective companies. • Images in viewfinders, on LCDs and monitors shown in this material are simulated.





© Ryan Taylor

Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer. January 2020 © 2020 Nikon Corporation



WARNING

**TO ENSURE CORRECT USAGE, READ MANUALS CAREFULLY BEFORE USING YOUR EQUIPMENT.
SOME DOCUMENTS CAN BE DOWNLOADED FROM downloadcenter.nikonimglib.com.**



Nikon Singapore Pte. Ltd. 60 Anson Road, Unit #09-01 Mapletree Anson, Singapore 079914 www.nikon.com.sg
Nikon Hong Kong Ltd. Suite 1001, 10F, Cityplaza One, 1111 King's Road, Taikoo Shing, Hong Kong www.nikon.com.hk
Nikon (Malaysia) Sdn. Bhd. Unit 100.07.015, Block J, Level 7, 129 Offices, Jaya One, No. 72A, Jalan Universiti, 46200 Petaling Jaya, Selangor Darul Ehsan, Malaysia www.nikon.com.my
Nikon Australia Pty Ltd. Suite 501, Level 5, 5 Rider Boulevard, Rhodes, NSW 2138, Australia www.nikon.com.au
Nikon India Private Limited Plot No. 71, Sector 32, Institutional Area, Gurgaon 122001, Haryana, India (CIN-74999HR2007FTC036820) www.nikon.co.in
Nikon Sales (Thailand) Co., Ltd. 1 Empire Tower, 45th Floor, River Wing East, South Sathorn Rd, Yannawa, Sathorn, Bangkok 10120, Thailand www.nikon.co.th
Nikon Middle East FZE Level 14, Jafza Views 19, P.O. Box 261908, Dubai, UAE www.nikon-me.com
PT Nikon Indonesia 35th Floor, Wisma 46 - Kota BNI, Jl. Jend. Sudirman Kav.1, Jakarta, 10220, Indonesia www.nikon.co.id
NIKON CORPORATION Shinagawa Intercity Tower C, 2-15-3, Konan, Minato-ku, Tokyo 108-6290, Japan www.nikon.com

@nikonasia

@nikonasia