VERSATILITY MEETS AGILITY

CAPTURE TOMORROW

D780

Nikon
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.
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.

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

The D780 offers AF down to -3 EV** 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*** when shooting stills in live view.

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.
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.

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.

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.

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.

More faithful white balance —
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 x 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.

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 / Silences / Bleached / Melancholic / Pure / Derin / Top / Sepia / Blue / Red / Pink / Charcoal / Graphite / Binary / Carbon

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SUPERB IMAGE QUALITY
The D780 captures 24-megapixel images at up to approx. 7 fps*, 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 EXPEED 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.

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.

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.
Moreover, the 231 AF points*2 cover a wide area for added flexibility. Also possible, with the ability to process Full HD capture, providing more options in post-production. Instant dramatic expression is (Frame from 4K video)

*2 In FX-based movie format with single-point AF.

without any crop. The camera offers Full HD 120p/100p*1 recording, including audio view and beautiful bokeh, making full use of the FX-based movie image area, high-quality video for HLG-compatible TV and monitors, without the need for post-processing color grading. The camera also has a “view assist” function for added convenience, this peaking information will not.

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 4:2:2 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-processing 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.

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 focusing 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 in video data, as well as including it with footage saved to an external recorder*3 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 synch 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 Fixed at FX-based movie format. Face detection is not available in auto-area AF.

*2 Atomos Monitor Recorders (SHOGUN, NINJA, SUMO series), etc. are supported.

*3 ISO 100, f/1.4, 20°C/68°F.

*2 Also available in focus shift photography.

*1 Not available when shooting slow-motion movies, or with photo illustration/miniature effects applied.

*3 Note: Simultaneous recording to memory card is not available.

*6 Also available in timecode photography.

*3 Available when using a third-party recorder which supports Atomos Open Protocol.
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.

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.

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

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.

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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.

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. 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.

Transform the look and feel of images — Special Effects mode

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 (paper 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.

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 introdused balancer minimizes mechanical vibration, stabilizing the viewfinder image during continuous shooting. *0.7× for 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., 2,359k-dot XGA 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.

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 an 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 UHS-II 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.

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 fast-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. *Playback operation is only available via Bluetooth connection.
WARNING
TO ENSURE CORRECT USAGE, READ MANUALS CAREFULLY BEFORE USING YOUR EQUIPMENT. SOME DOCUMENTS CAN BE DOWNLOADED FROM downloadcenter.nikonimglib.com.