I AM A MODERN MASTERPIECE

D810
www.europe-nikon.com
Meet the D810

Bring the imaging power of a massive 36.3 effective megapixels to a diverse range of scenes. With the D810, Nikon sets a new standard for D-SLR image quality in stills and video. Its all-new FX-format image sensor and EXPEED 4 image-processing engine work together to produce images with a clarity that surpasses even the D800/D800E, offering stunningly wide dynamic range and precisely controlled noise. Brilliantly precise autofocus and significantly reduced internal vibration make it easier to capture sharp images with pinpoint accuracy at maximum resolution. A faster burst rate of up to 5 fps in FX format, and up to 7 fps in DX format, makes high-megapixel shooting possible in more situations than ever before. If video is your medium, you can shoot precisely rendered movies in 1080/60p, with significantly reduced moiré and noise. Whether shooting stills or video, in bright light or darkness, this camera will bring your next masterpiece to life.
Freeze the exact moment up close at 7 fps¹

¹ In DX format when used together with the MB-D12 battery pack and a power source other than the EN-EL15 battery.

• Lens: AF-S NIKKOR 70–200mm f/2.8G ED VR II
• Exposure: [A] mode, 1/8000 s, f/5.6
• White Balance: Direct sunlight
• Sensitivity: ISO 800
• Picture Control: Vivid

©Lucas Gilman
Discover ultimate image quality at base ISO 64

- Lens: AF-S NIKKOR 24mm f/1.4G ED
- Exposure: (M) mode, 1/10 s, f/11
- White Balance: Auto
- Sensitivity: ISO 64
- Picture Control: Vivid

©Lucas Gilman
Unlock an extra sense of depth with the new image sensor and EXPEED 4

- Lens: AF-S NIKKOR 58mm f/1.4G
- Exposure: [M] mode, 1.6 s (electronic front-curtain shutter), f/5
- White Balance: Colour temperature set to 5500 K
- Sensitivity: ISO 64
- Picture Control: Standard

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Redesigned for peak image quality

Stunning scenes demand a stunning imaging machine. Delicate textures, minute details, luscious colours, and high-speed movement: the D810 captures them all with unparalleled fidelity. You’ve never seen a Nikon camera deliver image quality like this—it sets a new benchmark for photographic excellence.

All-new sensor: detail-rich images from ISO 64

Take your photography into new territory. The D810’s redesigned image sensor gathers more light information to make it the first Nikon camera to offer a base sensitivity of ISO 64. Such superior low-sensitivity enables cleaner, better-defined images when shooting in bright light, and you can shoot at up to ISO 12800, or extend the range from 32 to 51200 ISO equivalent. But that’s not all. Designed without an optical low-pass filter, the sensor works in combination with Nikon’s EXPEED 4 image-processing engine to deliver amazingly sharp stills that are unlike anything you’ve ever seen from a D-SLR.

EXPEED 4: high-speed data handling

The rich data output from the D810’s image sensor demands a highly advanced processor. Equipped with the latest EXPEED 4 image processor, the D810 executes sophisticated operations at a faster rate than its predecessor. This enhanced power allows higher definition images and 1080/60p movies, as well as faster burst rates of up to 5 fps in FX format, and up to 7 fps in DX format. Sophisticated new algorithms also cut noise across the entire sensitivity range, bringing remarkable clarity and enhanced gradation with a tangible sense of depth.

Up to 7 fps burst rate

The speed and flexibility at which the D810 can capture fast-moving subjects opens up stunning new opportunities for high-resolution photography. Even when shooting full-frame, you can capture uncompromised full-resolution images of the action at up to 5 fps. When the situation demands more speed, you can shoot at up to 6 fps in 1.2× crop mode, and up to 7 fps in DX format. From delicate textures to high-speed movement, this all-versatile 36.3-megapixel camera is ready for anything.
Mechanical vibrations, however tiny, can have a significant impact on high-megapixel images. That’s why the D810 boasts a new shutter/mirror box architecture and an electronic front-curtain feature. The shutter/mirror mechanism reduces image shake for a steady viewfinder image with minimal blackout during high-speed shooting.

When activated, the new electronic front-curtain shutter reduces the risk of microblur in even subtle details by minimising internal vibrations during exposure.

### Picture Control evolves

Whether shooting stills or video, Nikon’s second-generation Picture Control system provides invaluable tools for before and after the shoot. A dedicated button on the camera body takes you straight to the Picture Control menu, where you can take precise control over sharpening, contrast, brightness, hue, and saturation. You can now tailor images in finer increments of 0.25, while brightness can be adjusted in a wider ±1.5 range.

3 Excluding quick adjust.

### New Clarity setting

The new Clarity setting emphasises or reduces the crispness of images by adjusting local contrast. Use this setting to bring greater depth and drama to landscape shots or lend extra punch to portraits. Or go for the opposite effect, and use Clarity to render images with a softer, more impressionistic look.

### Flat Picture Control

For the ultimate freedom in postproduction, shoot with the new Flat setting. Compared with the Neutral setting, Flat Picture Control more faithfully retains all the image details and preserves rich tonal information in both highlights and shadows. Even after adjustments, there is less possibility of clipping in shadows and highlights, or of colour hue saturation.

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### Pushing the limits of high-megapixel photography

Getting the best from a high-megapixel camera requires a level of technical sophistication that extends beyond image quality. Engineered to offer maximum reliability and image stability, the D810 is a versatile and consistent performer. With flagship autofocus performance, reduced mechanical vibration, and Picture Control 2.0, this camera goes as far as your vision demands.

### The ultimate in high-resolution precision

High-megapixel photos require tack-sharp focus, and the D810 achieves an unprecedented level of focus control. The Multi-CAM 3500FX 51-point AF system is configurable in 9-point, 21-point, and 51-point coverage settings and sensitive down to -2 EV (ISO 100, 20 °C/68 °F). Nikon’s new Group Area AF mode offers fast acquisition and improved background isolation even in challenging lighting conditions.

### Minimised mechanical vibration preserves every detail

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Moviemaking freedom

A world of creative moviemaking awaits. Improvements to the D810’s image quality and operability combine with its compact body to ensure that this powerful and flexible camera will satisfy even the most demanding cinematographers. Footage is exquisitely rendered in higher definition, with stunning sharpness and rich tonality. And with access to hundreds of NIKKOR lenses, past and present, you’ll have the added edge you need to bring your vision to video.

Sumptuous Full HD movies at up to 60p

Shooting movie footage on a camera as powerful as the D810 is an enriching and liberating experience. Surpassing the video quality of its predecessors, the D810 employs an entirely new method of video signal processing to record Full HD (1080p) movies at 50p/60p frame rates (up to a maximum of 20 minutes4) with markedly reduced noise, moiré, and false colour. The camera’s EXPEED 4 image-processing engine delivers smoothly rendered exposure transitions and beautiful tones, with fewer gradation steps in uncompressed HDMI output.

4 Twenty minutes when image quality is set at high.

Extensive ISO range

You can set sensitivity from ISO 64 all the way up to ISO 51200 equivalent when filming in [M] mode, and the auto ISO function lets you configure the maximum ISO settings you want to work with. EXPEED 4 minimises noise across all sensitivities, allowing you to shoot with high image quality under low light, and record bright scenes with sumptuous tonality.

Stable and predictable exposure reading

For footage with smooth exposure transitions, the D810 adds two new metering modes. For subjects in the centre area of the frame, centre-weighted metering offers readings that aren’t prone to sudden brightness changes. Highlight-weighted metering lets you shoot subjects under spotlights while avoiding overblown highlights.

High-fidelity audio control

Increased options for audio control mean the D810 offers improved sound recording and greater overall flexibility. A stereo microphone input and an audio out let you fine-tune audio levels before recording. You can select the sound range (wide/voice), and wind noise can be reduced when recording with the built-in stereo microphone, making it possible to achieve clearer audio quality in challenging situations.
Creative flexibility

RAW Size S: accelerate your workflow
For faster image transfer and smoother postproduction, Nikon’s new RAW Size S file format delivers richly graded 12-bit uncompressed Nikon NEF files. RAW Size S has a quarter of the resolution and half the size of uncompressed RAW Size L, yet it exhibits the richness and malleability of RAW format. In-camera retouch menu options cannot be applied.

Unlimited continuous shooting
Produce spectacular light-trail photography with the D810’s continuous shooting capability. Shoot in Continuous Release mode with a shutter speed of 4 seconds or slower, and you can record as many high-quality JPEGs as your media cards and battery life allow. With an extremely short time gap between each exposure, you can seamlessly join shots of star trails or taillights to beautiful effect, using third-party software.

New highlight-weighted metering mode
Try to capture a ballet dancer who’s performing under a spotlight on a darkened stage and wearing a white costume: even experienced photographers may struggle to avoid overblown highlights with conventional spot metering. Nikon’s new highlight-weighted metering mode automatically determines exposure and avoids overblown highlights by giving priority to the brighter portions of a scene.

Split-screen display zoom: level your shot
Check levelling and sharpness with complete precision using the Live View split-screen zoom. This feature lets you compare two points in the image: each point is enlarged and displayed on the split screen, and can be magnified simultaneously at the same ratio. Accessed via the camera’s $ button, this function is invaluable for architectural or product shot photography.

©Miss Aniela
The D810 in the field

Miss Aniela
Fine Art/Fashion
I am delighted with the D810: it improves on everything I loved about the D800E. The crispness in details is reminiscent of medium format, but the camera has D-SLR ergonomics, accessibility, and usability. Having ISO 64 means I can shoot wide open in bright light and still maintain the best quality without losing dynamic range. I need to be able to do anything with an image, which often means bending the pixels in order to incorporate a surreal element. The picture has to withstand that level of postproduction, and the D810’s images do.

Hisao Asano
Natural Landscape
Working with the D810 reminds me of the 4x5 camera I used when I was first starting out. By confirming focus in Live View, setting the camera to Mirror-Up mode, and using the electronic front-curtain shutter, I can get images that are just as sharp, or even sharper. The D810 fits naturally in my hands, and its remarkably quiet shutter makes for a pleasant shooting experience. Setting the camera’s sensitivity to ISO 64 is reminiscent of some of the great slide film, and adjusting parameters like Clarity in Picture Control feels like selecting different types of film: but this camera makes it far easier than it used to be for photographers to obtain the images they want. The D810 has opened up new possibilities. I can’t wait to explore them further.

Lucas Gilman
Adventure/Film
When I first held the D810, it felt solid, elegant, and refined. But it wasn’t until I started shooting that the true magic came to life. There’s a vivid richness and quality to the D810’s images that’s like nothing I’ve ever seen. The details and dynamic range in the surfing and kayaking images I shot on location in Iceland and Hawaii are unmatched. What’s more, the autofocus is so fast and fluid that it allows me to creatively zero in on the energy of the moment. Peak moments in action sports happen in one-thousandths of a second, so having 100 per cent confidence in the D810’s autofocus and continuous shooting speeds is crucial to me.

Shinichi Sato
Cityscape/Architecture
My photography is all about presence: I want to convey the feeling of actually being there. I was genuinely impressed by the D810’s ability to achieve a sense of depth, comparable to the large-format 4x5 and 8x10 cameras and reversal films that I normally work with. As an architecture photographer, the split-screen zoom function in Live View is especially valuable: it allows me to achieve perfect levelling of the camera with the horizontal parts of a building. The changes to the D810 may look modest, but they’re actually pretty radical improvements. This is an innovative remodel.

D810 Special D-Movie “DREAM PARK”

Written and directed by Sandro, “Dream Park” is a story about inspiration and following your dreams. Wise and inspirational words from Esha’s grandmother motivate Esha to reach for her dreams of becoming a movie director. That aspiration is swiftly transformed into a contagious enthusiasm, which spreads to Esha’s friends on the playground and leads to the fulfilment of their childhood dreams. Shot entirely on the Nikon D810 and an assortment of NIKKOR lenses, Dream Park is a truly cinematic experience that pushes the envelope of D-SLR filmmaking.

To see the movie please go to: http://youtu.be/-CEtr2FSA9I

Sandro, Director
Shooting Dream Park was a lot of fun: using the D810, the imagery we got was so sharp and so beautiful, even the low-light scenes looked absolutely gorgeous. We achieved a very romantic and cinematic feel to the footage, regardless of the scene we were shooting. From the most dimly lit alleys and industrial parks to this really high-key, over-lit swimming pool, the range of the D810 and the way it performed were absolutely phenomenal.

Anthony Arendt, Director of Photography
I think the D810 will be as popular with the filmmaking community as the D800 is with the still photography community. We shot exclusively using the new Flat Picture Control: it was the perfect way of extending the range of the file and really reaching into the shadow areas while protecting the colour space. And if you’re in love with NIKKOR lenses like I am, you’ll find the D810 to be the best camera to make the most of that glass.
The resolution a high-megapixel camera demands

The highest calibre optics are vital for a high-megapixel camera, and Nikon’s wide range of NIKKOR lenses will draw out the full potential of the D810’s 36.3-megapixel sensor with ease. With the lenses’ exceptional resolving capability, every component of a scene can be faithfully reproduced: expect sharp resolution even at the periphery of an image, combined with exquisite bokeh. Photographers in every field can better capture the essence of their vision, and perfectly render every delicate tone or nuance.

AF-S NIKKOR 14–24mm f/2.8G ED  Wide-angle zoom with fixed f/2.8 aperture for superior depiction

With a fixed maximum aperture of f/2.8, this professional lens realises edge-to-edge sharpness across the frame. Nano Crystal Coat minimises ghost and flare even in backlit conditions, while ED glass reduces chromatic aberration to ensure outstanding contrast. Tough and reliable, this is essential glass for professional photographers everywhere.

AF-S NIKKOR 58mm f/1.4G  Fast prime lens: exceptional wide-open performance

Designed to perform best at maximum aperture, this fast prime lens truly pushes the limits of image quality. Exceptional for shooting night scenes, this lens reproduces point light sources like city lights as fine rounded points all the way to the edge of the frame. Bokeh is exquisitely smooth with no rough edges.

AF-S NIKKOR 70–200mm f/2.8G ED VR II  The essential telephoto zoom lens

This reliable f/2.8 fixed aperture telephoto zoom lens will broaden your shooting potential in difficult situations. Crafted to deliver stunning detail and contrast across the entire frame, the lens is equipped with Vibration Reduction (VR) that lets you shoot at shutter speeds up to 3.5 stops slower® and Nano Crystal Coat, which greatly reduces ghosting and flare.

6 Based on CIPA Standard.

AF-S NIKKOR 800mm f/5.6E FL ED VR  Nikon’s longest super-telephoto lens

With the longest focal length of all NIKKOR lenses, this premium lens is the ultimate choice for sports and wildlife photographers. Equipped with fluorite, ED glass, and Nano Crystal Coat, this lens produces images that are outstandingly clear with minimised chromatic aberration, ghosting, and flare. The lens comes with a dedicated, custom-tuned 1.25x teleconverter that extends the focal length to 1000 mm.
Versatile optional accessories

WR-1 Wireless Remote Controller
The WR-1 advanced multifunctional remote controller lets you control key camera functions, including movie shooting and interval timer photography, from a distance. You can release the shutters of several cameras simultaneously, either by using the WR-1 alone or by synchronising the cameras to a master camera with a WR-1 attached. Groups of cameras can be controlled separately, and the communication range between WR-1 units reaches up to 120 m with 15 channels available.

WR-R10/WR-T10 Wireless Remote Controllers
Nikon’s WR-R10 wireless transceiver and WR-T10 wireless transmitter let you control key camera functions from a distance even if there are objects between yourself and the camera. Using both devices provides an operating range of at least 20 meters. You can use the WR-R10 transceiver and the WR-T10 transmitter together to trigger a single camera, or attach the WR-R10 transceivers to multiple camera bodies and capture the same moment from different perspectives.

UT-1 Communication Unit
UT-1 is a universal-type communication unit that enables high-speed image data transfer between the camera and a network. You can connect UT-1 to a network and control the camera from a remote location. The UT-1 provides an operating range of at least 20 meters. You can use the UT-1 with a single camera, or attach the UT-1 to multiple cameras to create camera networks with remote image browsing and download capability and remote control of the camera settings and Live View output is possible via a computer. The unit incorporates wired LAN function only, but can be upgraded to wireless LAN functionality by combining it with the WT-5 Wireless Transmitter.

Built-in flash and Creative Lighting System
The D810 features a built-in flash with a guide number of 12/39 (m/ft, ISO 100, 20 °C/68 °F) and a commander function. With the camera’s 91K-pixel RGB sensor providing precise face detection and highlight analysis, this on-board flash can deliver excellent results. For more creative flash photography, Nikon’s Creative Lighting System offers unrivaled flexibility: fire optional Nikon Speedlights via the commander function of the built-in flash and make lighting as powerful and comprehensive as you want.

Note: Range of AF-assist illuminator may be shorter than expected depending on shooting situation.

WR-A10 Adapter required to connect to the D810, which uses a ten-pin terminal.

At approx. height of 1.2 m or less, depending on presence of obstacles and weather conditions.

Grouping function cannot be used when WR-R10 units are used as receivers.

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Specifications

<table>
<thead>
<tr>
<th>Type of camera</th>
<th>Single-lens reflex digital camera</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lens mount</td>
<td>Nikon mount (with AF coupling and AE contacts)</td>
</tr>
<tr>
<td>Image Sensor</td>
<td>3.5 x 4.4 mm CMOS sensor</td>
</tr>
<tr>
<td>Effective pixels</td>
<td>36.3 million</td>
</tr>
<tr>
<td>Image sensor</td>
<td>Anti-moiré filter for images with moiré patterns</td>
</tr>
<tr>
<td>Dust reduction system</td>
<td>Dust reduction filter system, Image Quality Reference data (result of capturing NIKKOR lens test images)</td>
</tr>
<tr>
<td>ISO sensitivity</td>
<td>600 to 12,800 in steps of 1/3, 1/2 or 1 EV; can also be set to approx. 0.3, 0.5, 0.7, or 1 EV (ISO 518 rounding) above ISO 12,800 (auto ISO sensitivity control available)</td>
</tr>
<tr>
<td>Movie metering</td>
<td>TTL: Matrix, centre-weighted, or highlight-weighted</td>
</tr>
<tr>
<td>Movie metering method</td>
<td>TTL exposure metering using main image sensor</td>
</tr>
<tr>
<td>White balance</td>
<td>Auto (2 types), incandescent, fluorescent (7 types), daylight, flash, cloudy, shade, custom setting (up to 20 custom white balance data)</td>
</tr>
<tr>
<td>Flash control</td>
<td>TTL: i-TTL flash control using 91K-pixel RGB sensor is available with built-in flash; i-TTL balanced fill-flash for digital SLR is used with matrix, centre-weighted, and highlights-weighted metering, standard TTL flash for spot metering, manual flash, red-eye reduction, red-eye reduction with slow sync, slow rear-curtain sync, off; auto FP high-speed sync supported</td>
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<tr>
<td>Flash-ready indicator</td>
<td>Lights when built-in flash or optional flash unit is fully charged; blinks after flash is fired at full output</td>
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<tr>
<td>Flash modes</td>
<td>Front-curtain sync, slow sync, rear-curtain sync, red-eye reduction, red-eye reduction with slow sync, use of optional flash units, off; auto FP high-speed sync supported</td>
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<tr>
<td>Frame rate</td>
<td>5 fps in 11fps burst mode, approx. 6 fps with EN-EL15 batteries</td>
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<tr>
<td>Frame coverage</td>
<td>• FX (36 × 24): Approx. 100% horizontal and 100% vertical</td>
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<tr>
<td>Movie ISO sensitivity</td>
<td>• Exposure modes P, S and A: Auto ISO sensitivity control (ISO 64 to Hi 2) with selectable upper limit; manual ISO sensitivity can also be set to approx. 0.3, 0.5, 0.7, or 1 EV (ISO 518 rounding) above ISO 12,800</td>
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<tr>
<td>Movie exposure modes</td>
<td>• Manual mode (M); shutter-priority auto (S); aperture-priority auto (A)</td>
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<tr>
<td>Focusing screen</td>
<td>Type B BriteView Clear Matte Mark VIII screen with AF area brackets and framing grid</td>
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<td>White balance</td>
<td>Auto (2 types), incandescent, fluorescent (7 types), daylight, flash, cloudy, shade, custom setting (up to 20 custom white balance data)</td>
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<tr>
<td>White balance control</td>
<td>Manual white balance control based on up to 4000 custom white balance data (20 sets of up to 200 data)</td>
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<tr>
<td>White balance mode</td>
<td>Default, custom, user, neutral, shade, twist, auto</td>
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