I AM THE DIFFERENCE MAKER

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Nikon 100th anniversary

At the heart of the image
HIGHER RESOLUTION. HIGHER SPEED. GREATER VERSATILITY.
PURE POTENTIAL FOR STILLS AND VIDEO.

Witness the next stage in evolution for high-resolution photography. The D850 doesn’t simply surpass the incredible image quality of the D810, with 45.7 effective megapixels and ISO sensitivity versatile and uncompromising performance, including continuous shooting speeds of up to 9 fps with the optional MB-D18 system used in the flagship D5. It’s the first Nikon FX-format D-SLR camera to offer full-frame 4K UHD video, while time lapse in over 8K quality even under extremely low light. From landscape to commercial sports, wedding and fashion photography, as well as multimedia shooting, the D850 lets you create astounding images that meet the strictest professional requirements.

* When using EN-EL18b/EN-EL18a Battery. Optional BL-5 Battery Chamber Cover and MH-26a/MH-26 Battery Charger required for use of the EN-EL18b/EN-EL18a.
45.7 MEGAPIXELS AND ENHANCED PERFORMANCE DELIVER IMAGES THAT ASTOUND

Magnificent images with stunning detail — Nikon FX-format, backside illumination sensor delivering 45.7 megapixels with ISO 64-25600

The D850 allows photographers to capture a diverse range of scenes in sumptuously rich detail. It is the first Nikon D-SLR to use a backside illumination sensor, which allows incoming light to reach photodiodes more efficiently. Together with the camera’s low-noise performance, this enables it to achieve ISO 25600 despite its high pixel count. What’s more, it strikes an optimal balance between sensor sensitivity and the volume of light information accumulated in photodiodes, yielding images with a wide dynamic range even at ISO 84 (expandable to ISO 32 equivalent) — the lowest native ISO setting offered by any camera manufacturer. Copper wiring is used to cut electrical resistance, while the backside illumination structure allows a flexible wiring layout, reducing stray capacity. These measures enable 45-megapixel FX-format images to be captured at continuous shooting speeds of 9 fps*1. And because the sensor is designed without an optical low-pass filter, it can bring out the full potential of 45 megapixels when combined with the high resolving power of NIKKOR lenses. The D850 yields pictures that can be enlarged as massive prints at up to A2 size*2 or used for 8K digital signage displays.

Effective noise reduction, fine detail and color reproduction with powerful image processing — EXPEED 5

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

The D850 employs a new “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 — a valuable asset for various scenes. It makes it possible to respond quickly to changes in the weather conditions without switching to the direct sunlight or cloudy options. When shooting scenes such as an autumnal landscape awash with red leaves or spectacular orange sunset, it also enhances the warm colors, helping create even more impressive pictures.

Create your ideal images — Picture Control system

Nikon’s Picture Control system helps you craft images that match your creative intentions and purposes. The D850 incorporates the new Auto Picture Control, in addition to the seven existing presets. Each preset allows you to tune settings such as sharpening and clarity, opening up a wider range of options for achieving your ideal image. You can adjust settings and store them as your own custom Picture Controls.

Effects of Auto Picture Control

Beauty is where you find it. The D850 captures it all — thanks to its EXPEED 5 image-processing engine, also incorporated in the flagship D5. EXPEED 5 renders delicate tonality in highly vivid colors, and its superb noise reduction suppresses noise effectively while maintaining detail. Its powerful calculation ability also permits high-speed continuous shooting at approx. 9 fps*1 with 45 megapixels, as well as full-frame, 4K UHD movie recording.

<table>
<thead>
<tr>
<th>Auto</th>
<th>Standard</th>
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</thead>
<tbody>
<tr>
<td>Silky skin tones are rendered with high fidelity, making them look better than real.</td>
<td>Standard delivers silky skin tones, but with a certain amount of grain.</td>
</tr>
</tbody>
</table>

**Notes:**
- Rolling shutter distortion may occur during silent photography.
- *1 When using the MB-D18 Multi-Power Battery Pack with the EN-EL18b/EN-EL18a Rechargeable Li-ion Battery. Optional BL-5 Battery Chamber Cover and MH-26a/MH-26 Battery Charger required for use of the EN-EL18b/EN-EL18a.
- *2 Continuous shooting is available for up to approx. 3 s.

**More settings:**
- Available in M and A modes. Aperture drive sound occurs in P and S modes.
- * Continuous shooting is available for up to approx. 3 s.

High pixel count/high image quality

The D850’s silent photography function*1 in live view mode utilizes an electronic shutter instead of triggering any mirror or shutter movement, meaning it doesn’t cause any mechanical vibration. Photographers can capture every last detail in 45 megapixels — and in complete silence. This mode can be used in approx. 6 fps continuous shooting, but can also shoot approx. 16-megapixel pictures in DX image area at approx. 30 fps*1.4.

<table>
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<th>Auto</th>
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<td>The Advanced Scene Recognition System is now even better at identifying light sources, meaning red colors can be emphasized in sunsets and sunrises.</td>
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Automatic adjustment to fit the scene — Auto Picture Control

Auto Picture Control produces more-desirable images by automatically fine-tuning the tone curve, color, sharpening and clarity of the Standard option, according to each scene’s characteristics. As a result, blue skies and verdant greens are rendered more vibrantly for landscape shots. The Advanced Scene Recognition System is now even better at identifying light sources, meaning red colors can be emphasized in sunsets and sunrises.

**Notes:**
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- *1 In M and A modes. Aperture drive sound occurs in P and S modes.
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Other settings:

- Available in M and A modes. Aperture drive sound occurs in P and S modes.
HIGHLY ACCURATE METERING AND EXPOSURE CONTROL THAT MAKE THE MOST OF THE HIGH PIXEL COUNT

Avoid white clipping and preserve tones in highlights — Highlight-weighted metering

Being able to depict the delicate details of a white dress is critically important in wedding and fashion photography. If you want to retain the subtle tones and nuances of color in the clothes, try highlight-weighted metering. This setting delivers a richer tonality in images by giving priority to the brightest portions of a scene and avoiding white clipping.

Consistent exposures under artificial light sources — Flicker reduction minimizes exposure variances

Artificial light sources such as mercury lighting often produce flickering, causing undesired variations in exposure and color in consecutive shots. The D850’s flicker reduction function avoids this problem by detecting the peak brightness level and automatically shifting the release timing slightly to avoid underexposure and color casts. This gives you stable exposures even during continuous shooting*. In movie shooting, using “Auto” flicker reduction makes the camera automatically switch exposure control according to the frequency of light sources, preventing the occurrence of banding in footage.

Preserve details in highlights and shadows — Active D-Lighting

Even when shooting high-contrast scenes in backlit situations, Active D-Lighting preserves details in highlight areas as well as shadowy areas, reproducing brightness as you see it. Active D-Lighting is suitable for use with moving subjects, as it does not involve combining two images like the High Dynamic Range (HDR) function does.

Produce amazing dynamic range — HDR

The High Dynamic Range (HDR) function takes two images of different exposures with one shutter release and automatically combines them to produce a single image with a wider dynamic range. This achieves images with rich tonal gradation in shadows and highlights, even for high-contrast shooting scenes. HDR is ideal for stationary subjects such as high-contrast landscapes and still lifes.

Note: Tripod use recommended.

More reliable auto control — 180K-pixel RGB sensor for Advanced Scene Recognition System

The D850 is equipped with the same 180K-pixel RGB sensor as the D5. Its increased pixel count enhances the accuracy of various auto controls by the Advanced Scene Recognition System, such as matrix metering, auto white balance, i-TTL balanced fill-flash, auto-area AF, 3D-tracking and Active D-Lighting. Furthermore, metering is available down to -3 EV* thanks to the sensor’s superb low-light sensitivity, which is effective when shooting low-contrast scenes or using a teleconverter. Meanwhile, the flicker detection function reduces flicker effects for more consistent still photo shooting.

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

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* Continuous shooting speed may be decreased.

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HIGH RESOLUTION MEETS HIGH SPEED AND PRECISION
ADDING NEW VALUE TO YOUR PHOTOGRAPHY

Spectacular speed to capture dynamic action in detail —
9-fps/7-fps high-speed continuous shooting

Redefine the power of a dynamic moment with a spectacular match of high resolution and high-speed shooting. The D850 captures massive, sharp 45-megapixel images at 9 fps with the optional MB-D18 Multi-Power Battery Pack (with EN-EL18b/EN-EL18a Rechargeable Li-ion Battery*) attached, or at 7 fps with the body only. The new image sensor achieves fast readout of large amounts of data, which is handled rapidly by the powerful EXPEED 5 image-processing engine. Despite the heavy load, the camera is capable of continuous shooting for up to 91 frames** (body alone) even in 14-bit lossless compressed RAW (up to 170 frames in 12-bit lossless processing engine. Despite the heavy load, the camera is capable of continuous shooting for up to 91 frames** (body alone) even in 14-bit lossless compressed RAW (up to 170 frames in 12-bit lossless compressed RAW). It lets you explore a whole new realm of high-speed photography combined with high-resolution images.

* Optional BL-5 Battery Chamber Cover and MH-26a/MH-26 Battery Charger required for use of the EN-EL18b/EN-EL18a.

** ISO 100 and 20°C/68°F.

Accurate manual focus confirmation —
Focus peaking display

Many photographers prefer to use manual focus for macro shots, such as when shooting at wide apertures like f/1.4 or f/2.8 with a shallow depth of field. The D850’s focus peaking display makes it easier to confirm manual focus during live view, including when zooming. The camera detects the scene’s highest-contrast edges — meaning they are in focus — and highlights them in a designated color. You can choose to display highlights in red, white, yellow or blue, according to your subject’s own coloration, and adjust between three levels of detection sensitivity.

Powerful acquisition and tracking of fast, erratic movements —
153-point AF system and AF down to -4 EV

The D850 comes equipped with the same powerful 153-point AF system as the flagship D5. The 153 densely packed focus points (55 selectable) provide over 130% of the D810’s frame coverage, while 99 cross sensors with powerful detection are optimally distributed. The AF system makes it possible to achieve pinpoint focus on a small area, but is also designed to immediately acquire fast, often random movements and track them tenaciously. Furthermore, the central point functions at -4 EV*, and all other focus points at -3 EV*, thanks to the Multi-CAM 20K autofocus sensor module, allowing for accurate AF in challenging lighting.

* ISO 100 and 20°C/68°F.

Achieve precise focus on a very small area —
Pinpoint AF

The D850’s new pinpoint AF mode is a valuable asset for macro shooting in live view photography. It uses a focus area that’s a quarter the size of conventional normal-area AF, enabling you to achieve precise focus on small details — particularly useful when focusing on subjects such as the pistil or stamen of a flower.

Bring everything in focus for focus stacking — Focus shift photography

When shooting a scene containing various subjects at different focus distances or creating specimen pictures of insects and flowers, photographers may want to bring everything into sharp focus. The D850 introduces a focus shift photography function, which enables it to shoot sequences of up to 300 frames, while gradually and automatically shifting focus position from the start point to infinity. The shutter release interval can be set from 0-30 s, while the focus step width can be selected from 10 levels. Continuous shooting at approx. 5 fps is also available. Combining the pictures using focus stacking in post-production* gives you an image where every detail is in brilliantly sharp focus.

* Requires third-party editing software.
THE D-SLR CAMERA THAT EXPANDS THE POTENTIAL OF 8K TIME-LAPSE MOVIE PRODUCTION

Spectacular 8K time-lapse movie creation — 45-megapixel images delivered by a new Nikon FX-format, backside illumination CMOS sensor

The D850 takes your time-lapse movies into a new realm with its Nikon FX-format CMOS image sensor. Harnessing the vast pixel count of 45 megapixels (8256 x 5504 pixels) with the high resolving power of NIKKOR lenses, the camera's interval timer mode allows you to capture over 8K-size images with exquisite detail for time-lapse movie creation*. The 45 megapixels also allow greater leeway in creating sharper 4K video by down-conversion, or adding pan and zoom effects within the frame in post-production using a computer to inject more dynamism into the finished piece. Thanks to the greater light-gathering efficiency of the backside illumination CMOS sensor structure, together with the advanced image processing of EXPEED 5, the D850 achieves a wider ISO sensitivity range from ISO 64-25600 (expandable to ISO 32 equivalent and to ISO 102400 equivalent). The resulting images feature low noise while maintaining detail even in the high ISO range.

Smother rendering of rapid motion in time-lapse movies — Minimum interval setting of 0.5 s

When capturing scenes with conspicuous motion, such as fast-moving clouds or fog, even a 1 s interval time may result in a sequence that does not look smooth when turned into a time-lapse movie. The D850 now offers a minimum interval setting of just 0.5 s* for interval timer shooting. This renders movements more smoothly, while giving you greater flexibility in achieving your creative intentions.

Shoot time-lapse movie data without release noise, mechanical vibration or mechanical wear — Silent interval timer photography

When shooting time-lapse sequences outdoors for hours at night, you can focus on your shooting without worrying about shutter release noise or mechanical wear. The D850 addresses both of these issues with its silent interval timer photography function* in live view mode, which drives the shutter electronically. The result is a silent shutter release that inflicts no stress on the mechanical drive. It also prevents mechanical vibrations that might cause image blur, meaning you’ll maximize the potential of the camera’s 45.7 megapixels. The silent interval timer function lets you shoot up to 9,999 frames.

Note: Rolling shutter distortion may occur during silent photography.

An easy way of shooting time-lapse sequences of starry night skies — Advanced new technology to extend low-light metering range

Capturing overnight star movement is a popular application of time-lapse videos, and the D850 makes it even easier. The exposure smoothing function, Nikon's unique feature, which reduces subtle exposure variance between frames in interval timer shooting, is further improved for the D850. Now it extends exposure metering capability beyond -3 EV* and lets you shoot starry night skies using aperture-priority auto mode when employed with silent interval timer shooting mode*. Photographers can now enjoy shooting star movements from midnight until dawn, when brightness changes significantly, in one continuous interval-timer sequence. This is impossible with manual exposure and opens up new opportunities to delight and impress.

Create high-resolution 4K UHD time-lapse movies — In-camera time-lapse

If you want to create high-resolution time-lapse movies without the need for post-production editing, the D850's in-camera time-lapse movie function comes in handy. Since it converts full-pixel (over 8K-size) still images into 4K UHD video in camera, you can enjoy relatively high-resolution quality with ease. In-camera time-lapse is also available in Full HD, as well as silent in-camera time-lapse photography.
A COMPREHENSIVE MULTIMEDIA D-SLR, FEATURING FULL-FRAME 4K UHD AND ×4, ×5 SLOW MOTION IN FULL HD

**Dynamic wide-angle movies, in high resolution — Nikon’s first full-frame, 4K UHD video**

The D850 lets you film magnificent 4K UHD/30p videos in full frame. You can capture more dramatic scenes by combining this with wide-angle NIKKOR lenses, which demonstrate high resolving power even around the periphery of the frame. It is also possible to simultaneously record uncompressed, broadcast quality 4:2:2 8-bit 4K UHD files on an external HDMI device. 4K UHD videos are also available in the DX-based movie format — equivalent to super 35mm size — while recording in MP4 format is possible in addition to the conventional MOV option.

*Note: The aspect ratio is 16:9.*

**Easily turn moments into drama — ×4 and ×5 slow-motion movie in Full HD**

The D850 helps create dramatic Full HD movies with its new in-camera slow-motion video*. It can generate both ×4 slow-motion videos (films at 120/100p and records at 30/25p) and ×5 slow-motion videos (films at 120p and records at 24p) entirely in-camera — great for creating drama out of moments.

* Image quality is fixed at normal and image area is fixed at DX regardless of settings. AF-area modes are limited to normal-area and wide-area AF. No audio recording.

**Rich image information for easy post-production editing — Flat Picture Control**

If you plan a video creation workflow that includes image enhancement in post-production, shooting in Flat Picture Control gives you the room you need to manipulate the original footage and achieve your preferred look. This option features a near-straight tone curve, which allows you to acquire as much information as possible regarding subject colors, brightness and texture, which previously required complicated procedures. It enables effective color grading using simple adjustments of the tone curve, without requiring technical knowledge of video log. Even if you are new to video, Flat Picture Control will amaze you with its creative potential and ease of use.

**Customizable highlight confirmation with even greater ease — Improved highlight display**

Highlight display using zebra patterns helps you confirm overblown highlights, and the D850 has improved this function to assist you further. It now lets you adjust the level of brightness, to be indicated between 180-255 depending on your needs. What’s more, the zebra patterns come in two varieties, selectable according to the patterns and textures of your subjects.

**More reliable sound control — Attenuator menu**

When filming out of the studio, audio levels can escalate unexpectedly, causing distortion. The D850 incorporates an attenuator menu to avoid such accidental occurrences. When activated, it reduces the microphone sensitivity to the appropriate level — allowing smooth recording with clear sound.

**Quickly switch between still-photo and movie shooting — Independent movie-shooting menu**

The D850 is designed for multimedia shooters who consider stills and movies equally important. With that in mind, this camera sees Nikon introduce a dedicated movie-shooting menu in addition to the one for still photography. You can register different settings for video without changing those for stills, which makes it easier to switch between the two shooting modes. For example, shooting stills in Auto Picture Control is possible even immediately after filming in Flat. What’s more, pressing the button during movie recording gives you direct access to the movie-shooting settings, providing both convenience and efficiency during your shoot.
COMFORTABLE OPERATION AND SUPERIOR RELIABILITY ENABLE HIGH-RESOLUTION IMAGES WITH EASE

Clearly confirm your entire view — 0.75× optical viewfinder
The D850 provides a wide field of view for easier subject confirmation with a 0.75× magnification* for its optical viewfinder — the highest ever offered by a Nikon FX-format D-SLR. The viewfinder has been redesigned to employ an aspherical lens and a new condenser lens with refined refraction, allowing for a slimmer body while keeping a sufficiently long eye point. Its high-contrast viewfinder information display uses organic EL display elements, making it easier to read even under bright sunlight.

Greater convenience in the field — Touch-operable, tilting 8-cm/3.2-in. 2359k-dot monitor
The D850’s tilting LCD monitor makes it easier to shoot from difficult angles. The monitor opens smoothly even when the camera is mounted on a tripod and has the most extensive touch functionality found in any Nikon D-SLR camera to date. From changing menu settings to shooting to reviewing images, it brings a new level of convenience. And thanks to the monitor’s 2359k-dot high-resolution display, you can easily check images and confirm focus in precise detail — which is crucial when working with 45 megapixels — by pinching out to enlarge.

Keep shooting under harsh conditions — Superior weather-/dust-resistant performance and a robust body
Working in environments such as tropical forests or desert, photographers often expose their camera bodies to harsh conditions. Nikon has applied its stringently high standards for weather resistance and durability, renowned in the fields of photography and science alike, to the D850. It has comprehensive weather- and dust-sealing applied to its joints and seams, and its top, rear and bottom covers, as well as the inside body structure, are made of robust magnesium alloy. It’s a camera that allows you to work with confidence in a wide range of tough environments.

Ergonomic operation and confidence even in the dark — Button illumination and layout
The superb performance of the D850, such as its low noise at high ISO settings and wide detection range for AF/AE, encourages photographers to venture out in the dark and create amazing images from challenging situations. The camera offers illuminated buttons on the rear left side and release mode dial, making it easier to change settings when shooting in the dark. Moreover, the buttons and dials are arranged in a convenient ergonomic layout to fit photographers’ hands. The rear side now features a sub-selector added in the same position as for the D5, to allow easier right-handed operation by photographers who use both models.

Dual memory card slots for fast and secure data storage — Compatible with XQD and UHS-II SD cards
Reliable storage media is crucial to all creative work. The D850 features dual slots for XQD and UHS-II SD cards, enabling rapid reading and writing of the vast data generated from its high-pixel-count image sensor. It also offers a variety of storage options, including the ability to store the same data onto two cards for instant backup and recording RAW and JPEG simultaneously onto separate cards.

Shoot for extended periods without worry — Long battery life
The D850 allows you to concentrate on shooting without having to worry about battery life. The camera can shoot up to approx. 1840 still images from a single charge of an EN-EL15a Rechargeable Li-ion Battery, thanks to its energy-efficient power circuit and EXPEED 5 image-processing engine. An optional weather- and dust-resistant MB-D18 Multi-Power Battery Pack can also be used as a power source, enabling shooting of up to 5140 images.*

* Based on CIPA Standards.

**Based on CIPA Standards. With the EN-EL15a Rechargeable Li-ion Battery, the MH-26a Battery Charger and the MB-D18 Multi-Power Battery Pack.

Maximum number of pictures that can be shot per single battery charge (single-frame release mode, CIPA Standards)

- D850: 1840 still images
- D810: 1200 still images

* When using an EN-EL15a Rechargeable Li-ion Battery

** When using an EN-EL15 Rechargeable Li-ion Battery
Show your creativity in a social media-friendly format — New 1:1 image area option

The D850 introduces a new image area option with a 1:1 aspect ratio. While reminiscent of 6 x 6 medium format, it’s also ideal for social media, where square images have become increasingly popular. It is also possible to add shading in the viewfinder around the image area you choose, helping you compose more accurately. You can create pictures to impress your followers, as well as experiment with the creative potential of this unique image area.

Huge time savings in post-production — In-camera RAW batch processing

Shooting in RAW gives greater leeway in post-production, letting photographers draw the most from the images they capture. Until now, however, processing RAW has always been extremely time-consuming. The D850 resolves this issue by offering an incredibly convenient, in-camera RAW batch-processing feature, which enables you to quickly apply the same adjustments to selected images. You can save the original RAW files and processed JPEG files on one large-capacity XQD card, or save the original XQD and the JPEG on an SD card in the second slot, for easier data management.

Smaller images with full post-production flexibility — RAW size options

There are times when you don’t necessarily need to shoot at a full 45 megapixels. However, the variety of scenarios that creative photography involves means you may still want to retain the flexibility of RAW in post-production. That’s why the D850 offers three file size options for 12-bit lossless compressed RAW: large (45.4 MP), medium (28.6 MP) and small (11.4 MP). And whichever option you use, in-camera RAW processing is still available.

Push your creativity further with image overlays — Enhanced multiple exposure options

The D850’s multiple exposure function is more versatile than ever before, allowing photographers to explore their creativity further. The camera now saves all pictures shot in this mode, so you can use individual images for other purposes as well. It is also possible to confirm each picture during shooting, as well as the overlay image being created. This makes wireless lighting possible even under natural light, letting you render your outdoor subject more impressively — for example, by illuminating from the side. Despite featuring powerful output at a guide number of 34.5/113 (m/ft, ISO 100)*, the SB-5000 can fire consecutively for longer than conventional models thanks to its built-in cooling system. Advanced Wireless Lighting with optical-controlled units such as the SB-910 is also possible with the D850.

Flexible, easy flash control for elaborate lighting indoors or outdoors — SB-5000 Speedlight with radio-controlled system

Whether you’re shooting indoors or outdoors, the SB-5000 Speedlight gives you complete mastery over your lighting. It can communicate via radio from distances up to approx. 30 m (98 ft)*1 with minimum interference from obstacles or ambient lighting (radio-controlled Advanced Wireless Lighting*2). This makes wireless lighting possible even under natural light, letting you render your outdoor subject more impressively — for example, by illuminating from the side. Despite featuring powerful output at a guide number of 34.5/113 (m/ft, ISO 100)*, the SB-5000 can fire consecutively for longer than conventional models thanks to its built-in cooling system. Advanced Wireless Lighting with optical-controlled units such as the SB-910 is also possible with the D850.

Flexible remote shooting control — WR-1, WR-R10/WR-T10 Wireless Remote Controllers (optional)

Wireless remote controllers bring a new array of options to your photography. The WR-1 and WR-T10 Wireless Remote Controllers can both be configured as a transmitter, and release the shutter of a camera with another WR-1* or WR-R10* attached. When using the WR-1 as a transmitter, it’s also possible to perform interval timer photography, and use its screen to confirm and change settings*3 of the remote camera. WR-1 units communicate via 2.4 GHz radio frequencies, offering a communication range of up to 120 m (394 ft)* with 15 channels. The WR-R10/WR-T10 can communicate within a range of up to 20 m (66 ft)*2. The WR-1 and WR-T10 can be configured as both a transmitter and a receiver, and release the shutter of one or more cameras. It is also possible to control slaves when using the WR-1 as a transmitter*2.

Fast wired/wireless LAN transfer — WT-7/A/B/C Wireless Transmitter (optional)

The optional WT-7/A/B/C Wireless Transmitter provides a faster way to securely transfer images to storage. It can transmit images and movies to a computer*4 or FTP server via both wired and wireless LAN. Wired LAN supports 1000BASE-T and offers transmission speeds of up to approx. 1000 Mbps*6; while wireless LAN supports IEEE802.11ac and enables transmission at up to approx. 866.7 Mbps*6, over distances of up to approx. 200 m (661 ft)*. Combined with the optional Camera Control Pro 2 software, it allows the D850 to be controlled wirelessly from a computer*5 — another advantage in studio photography.

*1 Wireless Transmitter Utility (available for download from the Nikon website) must be installed.
*2 Radio-controlled units such as the SB-910 require the optional WR-R10 Wireless Remote Controller and WR-A22 Wireless Remote Adapter (both optional).
*3 WR-10 only.
*4 At 35 mm zoom head position, in FX format, standard illumination pattern.
*5 At 20 m (66 ft) range, with a wireless remote adapter, and in FX format, standard illumination pattern.
*6 Maximum logical data rates according to IEEE standard. Actual rates may differ.
*7 Limited functions only.
*8 Available only in FX format. Range may differ according to signal strength and presence of obstacles.
**UNPARALLELED RESOLVING POWER TO GET THE MOST OUT OF 45 MEGAPIXELS**

With their exceptionally high resolving power, every field to better capture the essence of resolution even at the periphery of an image, Crystal Coat, which effectively reduces ghost are powerful tools for professionals looking to which makes full use of 45 megapixels, NIKKOR lenses are a perfect partner for the D850, allowing photographers in their vision, and render every delicate tone or nuance. Thanks to Nikon’s superb optical technology, they provide sharp combined with elaborately designed, beautiful image-blur characteristics. Many lenses feature the anti-reflective Nano and flare. They are also designed to reproduce point light sources as point images as much as possible. NIKKOR lenses ensure brilliantly sharp images regardless of the subject, environment or lighting conditions.

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**AF-S NIKKOR 24mm f/1.4G ED**

The latest advantage of this versatile wide-angle lens is its amazingly beautiful bokeh at f/1.4 while covering an f/4 angle of view. Its optical design now reveals more refined detail with even less aberration. In addition, its Nano Crystal Coat effectively reduces ghost and flare effects in harsh lighting.

**AF-S NIKKOR 105mm f/1.4E ED**

With their exceptionally high resolving power, this fast, medium-telephoto lens embodies NIKKOR’s unique design concept of “three-dimensional high fidelity.” It provides a large and beautiful bokeh effect with smooth blurring from the focus plane to ensure natural depth of subjects. Superior optical performance achieves high resolution even in the peripheral areas, sharp rendering of distant subjects even at the maximum aperture, and exceptional reproduction of point light sources. Three ED glass elements reduce chromatic aberration, while Nano Crystal Coat effectively minimizes ghost and flare effects. The latest design technology is employed in an original optical system of 16mm f/4 with AF, and stable AE with an electromagnetic diaphragm mechanism. Fluorine coat is applied to lens surfaces for easy maintenance.

**AF-S NIKKOR 400mm f/2.8E FL ED VR**

This new-generation super-telephoto lens delivers outstanding optical performance with minimized chromatic aberration. A weight of approx. 3800 g / 8.4 lbs*1 is achieved through the employment of fluorites for superior mobility. The VR system provides a powerful effect equivalent to a shutter speed 4.0 stops*2 faster in Normal mode, and Sport mode achieves a stable viewfinder image that’s similar to using a monopod, even during handheld shooting. Other notable features include an electromagnetic diaphragm for stable exposure control even during continuous shooting, a highly reliable fluorine coat applied to the lens front, and a tripod mount ring incorporating bearings for smoother operation.

**AF-S NIKKOR 14-24mm f/2.8G ED**

This fast, medium-telephoto lens embodies NIKKOR’s unique design concept of “three-dimensional high fidelity.” It provides a large and beautiful bokeh effect with smooth blurring from the focus plane to ensure natural depth of subjects. Superior optical performance achieves high resolution even in the peripheral areas, sharp rendering of distant subjects even at the maximum aperture, and exceptional reproduction of point light sources. Three ED glass elements reduce chromatic aberration, while Nano Crystal Coat effectively minimizes ghost and flare effects. The latest design technology is employed in an original optical system of 16mm f/4 with AF, and stable AE with an electromagnetic diaphragm mechanism. Fluorine coat is applied to lens surfaces for easy maintenance.

**PC NIKKOR 19mm f/4E ED**

The 19 mm focal length of this PC lens gives an angle of view that will be familiar to architecture and interior photographers, while bringing dramatic perspectives to landscape shots. Its mechanical structure allows the shift position to be adjusted smoothly and precisely, without the need for locking and unlocking. And thanks to its “PC Rotation” mechanism, the direction of tilt operation can be made parallel or perpendicular to shift, giving you greater control over perspective, focus and depth of field. Three ED glass elements and two aspherical lens elements are employed along with Nano Crystal Coat and a fluorine coat.

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AF-S NIKKOR 24-70mm f/2.8E ED VR

An aspherical ED glass element — a first for NIKKOR lenses — works with ED glass, aspherical lens and HR lens elements as well as Nano Crystal Coat to achieve remarkably high optical performance. Evolved Vibration Reduction (VR) provides an effect equivalent to a shutter speed 4.0 stops*1 faster. Other notable features include an electromagnetic diaphragm mechanism, fluorine coat and highly durable body.

AF-S NIKKOR 20mm f/1.8G ED

This 20 mm lens enables photographic expression utilizing the shallow depth of field achieved at the maximum aperture of f/1.8. The latest optical design technology delivers high resolution and superb point-image reproduction while minimizing chromatic aberration. ED glass elements and Nano Crystal Coat ensure superior image quality.

AF-S NIKKOR 24-70mm f/2.8E ED VR

With a fixed maximum aperture of f/2.8, this award-winning professional lens delivers edge-to-edge sharpness across the frame. Nano Crystal Coat and ED glass ensure outstanding contrast, even in backlit conditions. Tough and reliable, this is essential glass for professional photographers.

AF-S NIKKOR 14-24mm f/2.8G ED

With a fixed maximum aperture of f/2.8, this award-winning professional lens delivers edge-to-edge sharpness across the frame. Nano Crystal Coat and ED glass ensure outstanding contrast, even in backlit conditions. Tough and reliable, this is essential glass for professional photographers.

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

NIKKOR’s first fisheye lens provides two fisheye effects (circular and full-frame) for elaborate image expression. Three ED glass elements effectively reduce lateral chromatic aberration for sharp and high-contrast images. Two aspherical lens elements contribute to improved reproduction of point light images, while Nano Crystal Coat controls ghost and flare effects. A dust- and drip-resistant structure is employed for enhanced reliability, while a fluorine coat ensures easy maintenance.

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

*2 Based on CIPA Guidelines.
## Nikon Digital SLR Camera D850 Specifications

**Type of camera**
- Single-lens reflex digital camera
- Single-lens reflex (SLR)
- 36 mm × 24 mm CMOS sensor

**Effective angle of view**
- Nikon FX format

**Effective pixels**
- 45.7 million

**Image sensor**
- DX format: 24 mm × 16 mm (APS-C sensor)
- 36 mm × 24 mm (full-frame)

**White balance**
- 48-bit RAW

**Built-in flash**
- ISO 100 to 51,200 (in 1/3, 1/2, or 1 EV increments)
- Auto white balance

**Flash control**
- Hi; Hi; 1/1; 1/2; 1/4; 1/8; 1/16; 1/32 with Hi and Hi; 1/1

**Flash sync speed**
-帘幕同步: 1/250 秒
-慢同步: 1/60 秒
-高速同步: 1/8000 秒

**Other movie options**
- Live view modes:
  - Full frame and thumbnail (4, 9 or 72 images) playback with playback zoom
  - Full-frame and thumbnail (4, 9 or 72 images) playback with playback zoom

**Wireless**
- Standard:
  - IEEE 802.11b, IEEE 802.11g, IEEE 802.11n
  - IEEE 802.11a
  - IEEE 802.11ac

**Audio recording device**
- Linear PCM, AAC

**Video compression**
- H.264/MPEG-4 AVC

**Alternate AF area mode**
- Face priority

**Accessories**
- AC adapter: EH-5c, EH-5b
- Battery: EN-EL15a/EN-EL15* Rechargeable Li-ion Battery

**License information**
- * Fewer pictures/shorter movies can be taken on a single charge with an EN-EL18 than an EN-EL18b/EN-EL18a, or with an EN-EL15 than an EN-EL15a.

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### Nikon D850 Specifications

#### Exposure lock
- –

#### Advance rate
- –

#### Lens servo
- –

#### Self-timer
- –

#### Flash sync speed
- –

#### Reflex mirror
- –

#### (Recommended Exposure Index)
- –

#### Shutter type
- Mirror

#### File format
- XQD memory card

#### Total pixels
- 6.89 million

#### Image sensor
- 45.7 million

#### Lens aperture
- f/1.4–22

#### Metering range
- –

#### Diopter adjustment
- –

#### Exposure index
- –

#### Frame size (ISO 100)
- 4068 × 2712 (L: 68.1 million), 2592 × 1728 (M: 41.6 million), 1936 × 1290 (S: 4.1 million)

#### Viewfinder
- 0.7 wide angle of view

#### Focusing screen
- Type B Black Matte (VFB) screen

#### Reflex mirror
- Mirror

#### Highlight-weighted: Available with type G, E and D lenses

#### Other power sources
- AC adapter: EH-5c, EH-5b, EN-EL15a/EN-EL15*

#### Audio output
- Headphones: 3.5 mm stereo

#### Video compression
- H.264/MPEG-4 AVC

#### Battery pack
- EN-EL15a/EN-EL15* Rechargeable Li-ion Battery

#### Battery charger
- MH-25 Battery Charger

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**Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer. November 2017 ©2017 Nikon Corporation**