Nikon

At the heart of the image

I AM CONCENTRATED PERFORMANCE

95 million NIKKOR

D500

www.europe-nikon.com

- Lens: AF-S NIKKOR 70-200mm f/2.8G ED VR II
- Exposure: [S] mode, 1/2000 second, f/5.6
- White balance: Auto 0
- Sensitivity: ISO 200
- Picture Control: Standard

• Lens: AF-S NIKKOR 500mm f/4E FL ED VR
• Exposure: [A] mode, 1/500 second, f/5.6
• White balance: Auto 0
• Sensitivity: ISO 640
• Picture Control: Standard

- Lens: AF-S NIKKOR 16-35mm f/4G ED VR
- Exposure: [M] mode, 1/800 second, f/5.6
- White balance: Auto 0
- Sensitivity: Auto (ISO 400)
- Picture Control: Standard

FLAGSHIP POWER—— DX AGILITY.

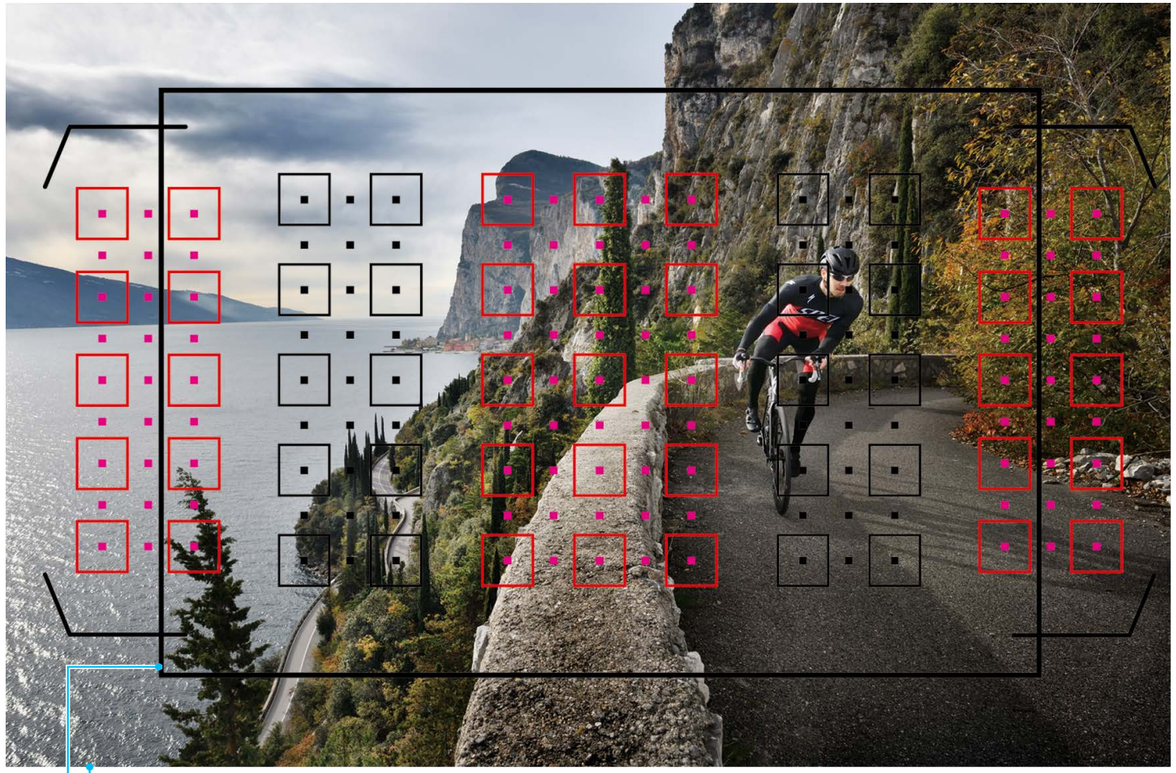
As the smaller sibling to the professional D5, this camera boasts a level of power and precision that is up to the most demanding photographic tasks. If you want a smaller, lighter alternative to a full-frame model, this camera will go as far as you want to go. And even a step further.

- Powerful new 153-point AF system delivers superior subject acquisition performance across a wider range of situations
- Approx. 10 fps continuous shooting (up to 200 shots in 14-bit lossless compressed RAW) captures decisive, split-second moments
- Compact, lightweight DX system offers outstanding agility, especially for telephoto shooting
- New EXPEED 5 image-processing engine achieves superior image quality and ISO sensitivity up to 51200, expandable to Hi 5 (equivalent to 1640000)
- 4K/UHD (30p) video, suitable for professional productions
- Touch-screen, tilting 8-cm/3.2-in., 2359k-dot LCD monitor ensures comfortable shooting when composing from low or high angles
- SnapBridge support lets you keep the camera connected to a compatible smart device via built-in Wi-Fi® and *Bluetooth*®

4K UHD

D500

Accurate AF: delivers superior subject acquisition performance



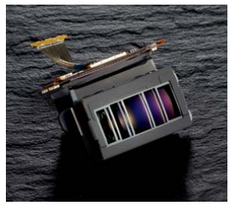
DX | 153 focus points : ⊡ / ⊡ / ■ / ■
(99 cross sensors : ⊡ / ■)
55 selectable points : ⊡ / ⊡
(35 cross sensors : ⊡)

1.3× | 117 focus points : ⊡ / ⊡ / ■ / ■
(63 cross sensors : ⊡ / ■)
45 selectable points : ⊡ / ⊡
(25 cross sensors : ⊡)

153 AF POINTS

Revolutionary autofocus system with exceptional acquisition performance

Precision taken to extremes: flagship AF performance



Equipped with the same AF system as the D5 - Nikon's FX-format flagship - the D500 lets you focus with absolute precision, even in near darkness. With an incredible 153 focus points (55 selectable) and 99 cross-type sensors in the central and peripheral areas, this phenomenal AF system offers unprecedented coverage across almost the full width of the viewfinder frame. AF sensitivity down to -4 EV at the central point, and -3 EV (ISO 100, 20 °C/68 °F) for all other points, enables superior low-light performance. Small subjects moving at high speed can be tracked with a new level of precision and subjects at the edge of the frame are easily detected. The system is configurable for 153-point, 72-point and 25-point coverage settings in Continuous AF mode.

Reliable AF performance

All 153 focus points are compatible with AF NIKKOR lenses with an open aperture of f/5.6 or faster. The 15 central focus points (nine selectable) work with an effective aperture of f/8. With a teleconverter attached, even very distant subjects can be brought into sharp focus*.

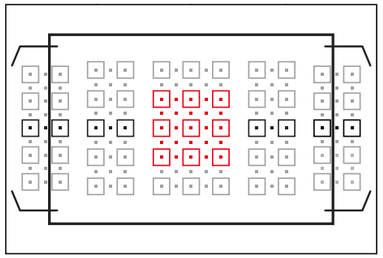
*The number of focus points that function as cross sensors varies depending on the lens combination.

Dedicated AF engine: blisteringly fast focus

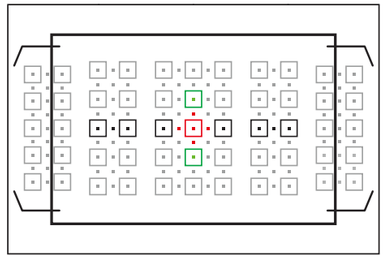
Like the D5, the D500 uses a dedicated AF micro processing unit to swiftly process the vast amounts of image data delivered by its 153 AF points. Working together with the camera's 180K-pixel RGB metering sensor, the AF engine delivers phenomenally detailed scene analysis, advanced subject detection, and more stable tracking. Even at high shooting speeds of approx. 10 fps, the D500 brings fast-moving subjects into perfect focus, and keeps them there.

© C.S.Ling

Focus points allowing AF and electronic rangefinder when using AF-S/AF-I teleconverter



For effective maximum apertures slower than f/5.6 and faster than f/8
37 focus points: ⊡ / ⊡ / ■ / ■
17 selectable points: ⊡ / ⊡
25 cross sensors: ⊡ / ■



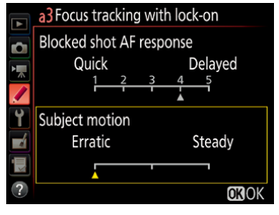
For effective maximum apertures at f/8
15 focus points: ⊡ / ⊡ / ⊡ / ■ / ■
9 selectable points: ⊡ / ⊡ / ⊡
5 cross sensors: ⊡ / ■

Note: Focus points other than cross sensors are line sensors detecting horizontal lines (⊡ points detect vertical lines).

D500 + AF-S TELECONVERTER TC-20E III + AF-S NIKKOR 500mm f/4E FL ED VR

AF lock-on: maintain focus in the heat of the action

The AF lock-on function manages focus in fast-moving or erratic situations. Blocked shot AF response is ideal when an object passes between the subject and camera. Opt for 'Quick' when you want to easily shift focus between the intervening object and the original subject. Opt for 'Delayed' if you want to maintain focus on the original subject. Subject motion adjusts AF response according to the way in which the subject is moving towards the camera. Opt for 'Erratic' if the subject is prone to stopping and starting. Opt for 'Steady' if the subject is moving at a constant speed. Whether you're tracking a particular speed skater during a sprint, or capturing a specific player during a tumultuous cup final, AF lock-on will keep you on target.



AF fine-tune: automatically optimise AF for a specific lens

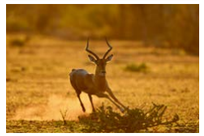
The D500 makes it easy to fine-tune AF to the NIKKOR lens you're shooting with. Shoot in Live View, and the camera will automatically set and register the tuning value** for each lens, ensuring precise focus. Manual fine-tuning is also available.

**Turn on 'AF fine-tune' in the setup menu to enable the tuned value for shooting.

AF-area modes: easily designate AF modes for different shooting situations

The D500 makes it easy to quickly switch between AF-area modes. Simply assign an AF-area mode to one of the camera's customisable buttons***, then switch to the assigned mode by keeping the custom button depressed while you shoot.

***Except 3D-tracking.



© Go Yamagata

Image-defining speed: up to 10 fps for up to 200 shots

The D500's supercharged performance easily captures decisive moments. Thanks to the camera's fast image sensor and the new EXPEED 5 image-processing engine, you can shoot at up to 10 fps** with AE/AF tracking, or with mirror up. The high-performance buffer allows up to 200 NEF (RAW), 14-bit lossless compressed, or large JPEG images, to be captured during one burst. Two card slots (one for XQD cards, and one for SD UHS II cards), easily handle the camera's incredible shooting speeds, and ensure the buffer is instantly cleared for the next burst.

**Approximate frame rates for a fully charged EN-EL15 Rechargeable Li-ion Battery, using continuous-servo AF, a shutter speed of 1/250 s or faster, and with other settings at default values.

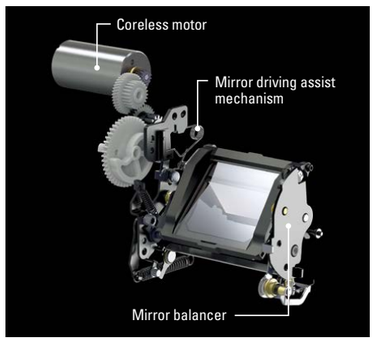
10 fps up to 200 shots*

High-speed continuous shooting to confidently capture decisive moments

*14-bit lossless compressed RAW.

Stable viewfinder image: easily track fast-moving subjects

The D500 makes it easy to acquire and follow subjects, even in the midst of explosive action. Faster sequential shutter and mirror mechanisms significantly reduce viewfinder blackout during high-speed bursts, and the camera's mirror drive mechanism provides effective reduction in bounce. Viewfinder blur is reduced to provide a stable, clear image during high-speed continuous shooting. AF tracking and viewfinder visibility are vastly improved.



Agility: the DX telephoto advantage

The D500 boasts a serious weight advantage. The body is lightweight, and the 1.5x crop factor* of the camera's DX sensor delivers a telephoto effect when shooting with an FX lens. Compared to the full-frame combination, this crop factor cuts both the weight and length of your telephoto setup approximately in half. Now you can project yourself into the heart of the action, or bring your focus right to the edge of a hard-to-reach bird's nest, without the handling issues associated with heavier professional kit.

*35mm format equivalent.

AF-S DX NIKKOR 16-80mm f/2.8-4E ED VR: light, agile kit lens

Pair the D500 with its incredibly light, agile kit lens and you've got the perfect walkabout setup. This versatile 5x zoom covers the equivalent of 24-120mm in full-frame format, while the fast aperture opens up more shooting possibilities. Nikon's impressive Vibration Reduction (VR) system lets you shoot at shutter speeds up to four stops slower**, and an electromagnetic diaphragm ensures precise exposures at high frame rates.

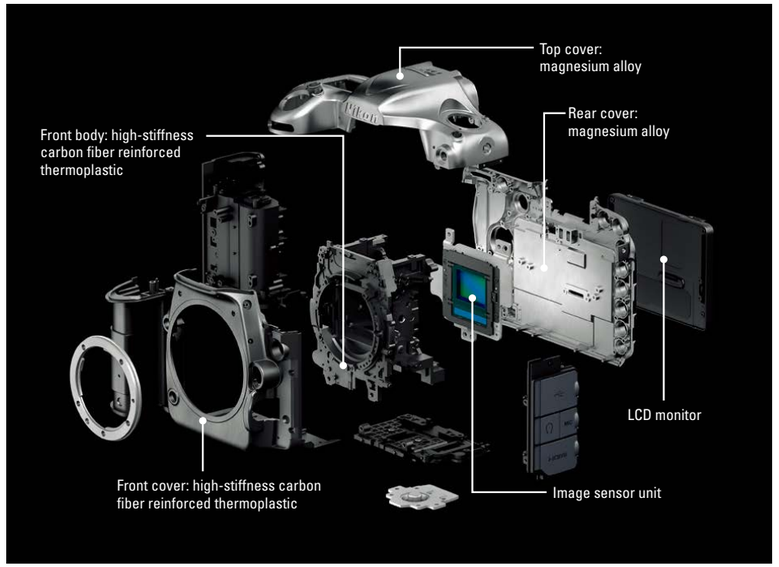
**Based on CIPA Standards. Achieved in NORMAL mode, with the lens attached to a DX-format digital SLR.

AF-S DX NIKKOR 16-80mm f/2.8-4E ED VR

1.3x image area: flexible telephoto shooting without changing lenses

The D500's 1.3x image area gives you the flexibility to get close to your subject without changing lenses. With an angle of view roughly equivalent to 2x the focal length of your attached lens***, the image area allows you to home in on the heart of your composition. Achieve dramatic, sharply-focused stills with no extraneous elements, and cropped Full HD movies—all without going into your bag for extra kit.

***In 35mm format.



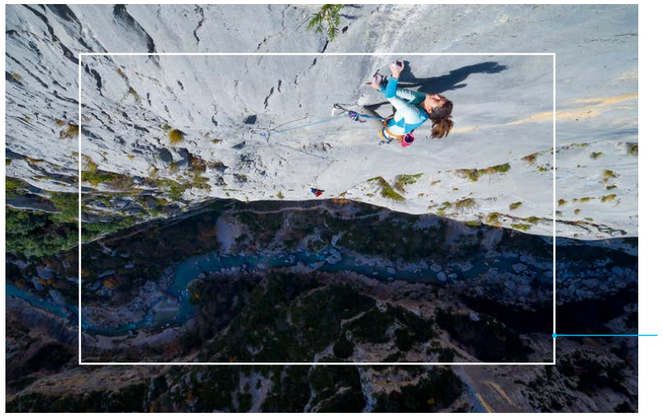
Combinations that deliver an angle of view equivalent to a 600 mm focal length lens*

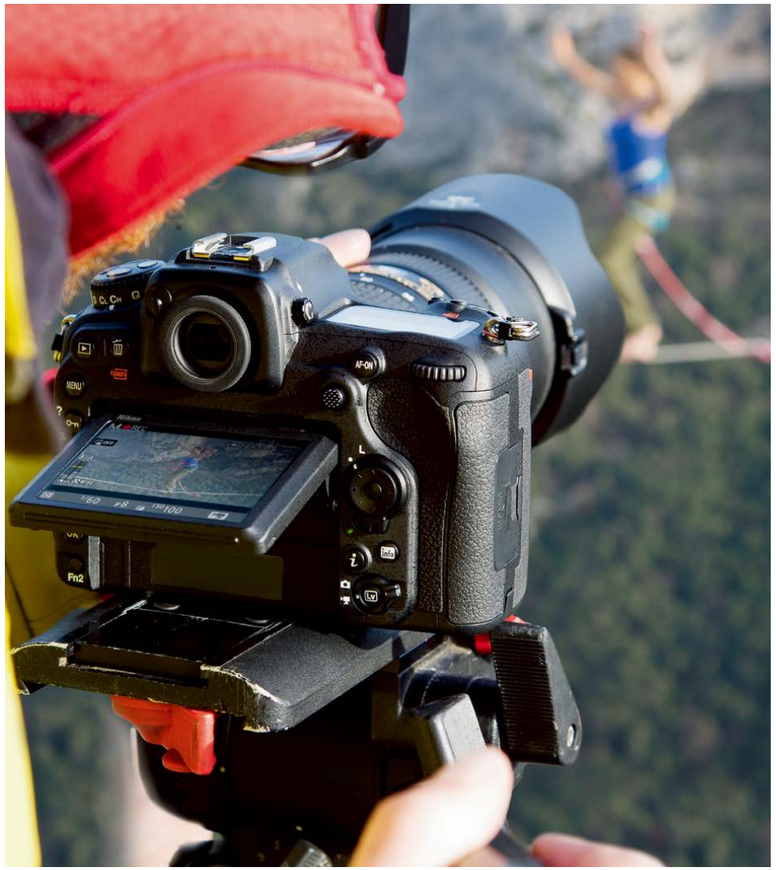
D5 + AF-S NIKKOR 600mm f/4E FL ED VR
Approx. 5215 g/11 lb 8.0 oz** (XQD-Type)

D500 D5

D500 + AF-S NIKKOR 80-400mm f/4.5-5.6G ED VR
Approx. 2430 g/5 lb 5.8 oz**

* 35mm-format equivalent.
**Includes battery, one XQD memory card (two XQD cards for the D5) and lens cap.





3840 × 2160: Compatible with 4K/UHD

1.3×-based image area: Compatible with Full HD and HD

DX-based image area: Compatible with Full HD and HD

Note: aspect ratio of movies is 16:9 regardless of the selected image area.

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

4K/UHD

Stunning ultra-high-definition video designed for diverse multimedia applications

Cinematic 4K/UHD (3840 x 2160) video

As the first Nikon DX-format DSLR to record high-definition 4K/UHD movies in-camera, the D500 offers a whole new level of moviemaking flexibility. 4K/UHD movies (3840 x 2160 pixels) up to 29 minutes and 59 seconds long* can be recorded at 30p/25p/24p in dot-by-dot native pixel crop, which ensures the highest image quality. Full HD (1080p) video can be recorded at frame rates up to 50p/60p in multiple sensor crop formats, including native Full HD pixel crop. The camera offers clean HDMI out: even 4K/UHD movies can be recorded to the memory card or output uncompressed to HDMI with 8-bit 4:2:2 YCbCr. HDMI output is available for all movie resolutions during remote shooting.

*4K/UHD movies are recorded in separate files.

4K/UHD in-camera time-lapse

Transform the passage of time into a dramatic, high-speed sequence. The D500's 4K/UHD-quality time-lapse function creates 4K/UHD** and Full HD time-lapse movies simply, in-camera. Exposure smoothing takes care of unwanted flicker effects by automatically decreasing slight variances in frame exposures.

**Maximum recording duration of 4K UHD time-lapse photography is 3 min.

Steady handheld movies: electronic Vibration Reduction (VR)

The D500's electronic Vibration Reduction (e-VR) function dramatically reduces the effects of camera shake when shooting Full HD movies handheld.

Active D-Lighting: save time in post

The D500 lets you apply Active D-Lighting to Full HD and HD movies. Achieve richer tonal gradation, detail in highlights and shadows, and natural brightness in high-contrast scenes—without the need for post-production.

Active D-Lighting: High

Active D-Lighting: Off

Retain depth of field through dramatic light changes: auto ISO sensitivity control

The D500's auto ISO sensitivity control is invaluable for preserving depth of field and focus in sequences that involve dramatic changes in brightness—such as a subject running from a dark corridor into the midday sun. In M mode, auto ISO allows from ISO 200 all the way up to Hi 5, and lets you set the maximum ISO values you want to work with.

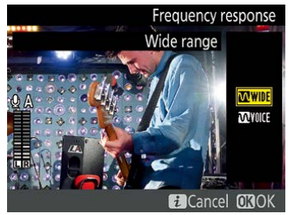
Convenient custom settings for movie recording

The D500 lets you use pre-assigned Pv and Fn buttons to smoothly control exposure compensation, or change depth of field with the Power Aperture function***.

***Power Aperture function is only available in A or M modes.

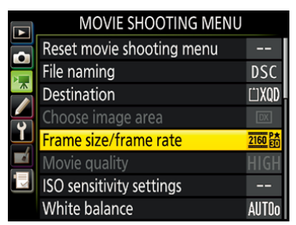
High-fidelity audio control

The D500 boasts a built-in stereo microphone and is compatible with Nikon's external ME-1 Stereo Microphone and ME-W1 Wireless Microphone. A stereo microphone input and audio out let you fine-tune audio levels in isolation both before and during recording. Microphone sensitivity levels can be adjusted in 20-step increments, and you can visually confirm your adjustments on the camera's LCD. (When using third-party headphones, audio can be adjusted across 30 increments). You can select the sound range (wide/voice), and wind noise can be reduced when recording with the built-in microphone.



Dedicated movie menu: keep your cinematic settings separate

The D500's dedicated movie menu makes it easy to access and adjust key movie settings - such as white balance and Picture Controls - independently of still image settings. Movie settings can also be quickly accessed by pressing the **i** button.



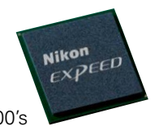
© Todd Owyoung

ISO 51200 with EXPEED 5

Exceptional image quality with lower noise even at high ISO settings

Shot at ISO 51200 © C.S.Ling

New EXPEED 5: Nikon's most powerful processor ever

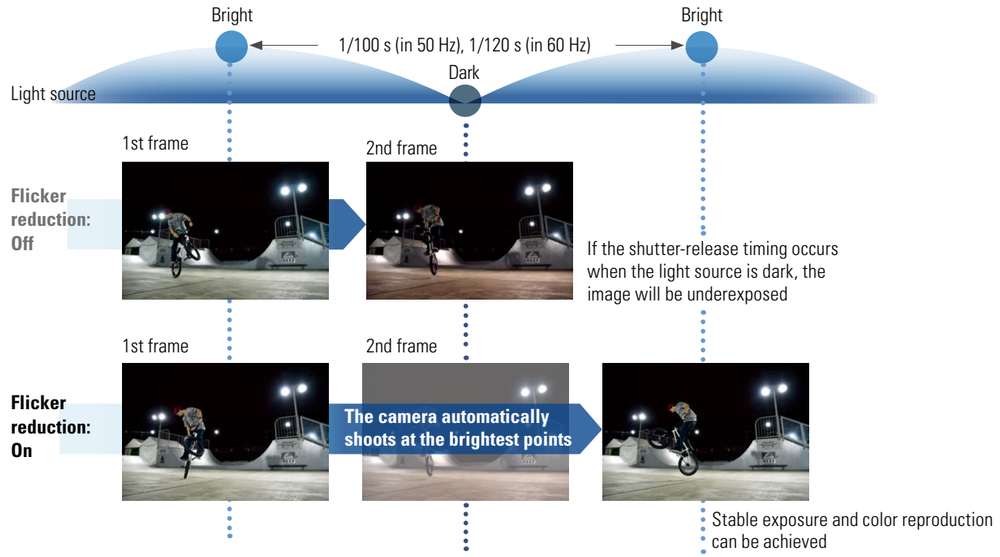


Nikon's new EXPEED 5 image-processing engine boasts powerful calculation capabilities that easily handle the data and rapid write speeds from the D500's image sensor. Noise is dramatically reduced, even in extreme low-light conditions, and cropped images shot at high ISOs retain their quality. Textures and details are faithfully preserved while subtle tonal gradations are smoothly reproduced.

Not afraid of the dark: ISO 100 to 51200, expandable to Hi 5 (ISO 1640000 equivalent)

The D500 isn't intimidated by difficult light conditions. Thanks to its exceptionally wide ISO range, this camera handles both dark situations and highlights incredibly well. For extremely bright shooting situations, you can extend the ISO range down to the equivalent of ISO 50 at the Lo 1 setting. For dark situations, you can extend up to an incredible ISO 1640000 equivalent, at the Hi 5 setting.

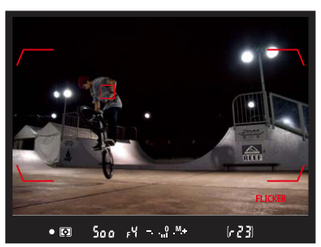
Flicker reduction function (in continuous shooting)



Flicker reduction minimises exposure variations

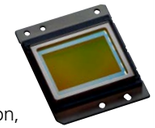
Artificial light sources such as fluorescent lighting tend to produce flickering, which can result in dark images. To minimise this effect, the D500 offers a flicker reduction function. The camera detects the peak brightness level and automatically shifts the release timing slightly to avoid underexposure, giving you stable exposures even during continuous shooting*.

*Continuous shooting speed may be decreased.



You can choose to display **FLICKER** icon in the viewfinder when flicker is detected

Nail the shot: powerful metering and image sensors



The D500 boasts the same 180K-pixel RGB metering sensor as the D5. This all-new sensor, developed in-house by Nikon, combines with the camera's 20.9 MP DX-format CMOS image sensor to deliver phenomenally accurate subject recognition and image detail with rich tonal gradations.

Three auto modes in white balance

As with Nikon's flagship D5 camera, the D500's white balance features three auto modes to help you achieve precise atmospheric results. Auto 0 (Keep white) faithfully renders whites as white, even under a light source with a low, reddish, colour temperature. The Auto 1 Normal mode maintains a balance between the original subject colour and the ambient lighting. And the Auto 2 (Keep warm lighting colours) retains the colour of incandescent or other lighting for images with a natural sense of warmth.

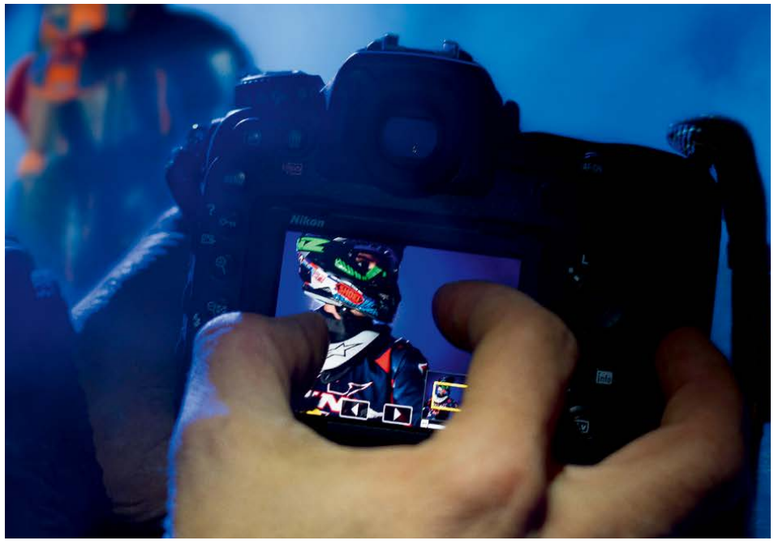
Auto 0: Keep white (reduce warm colors)

Auto 1: Normal

Auto 2: Keep warm lighting colors

Picture Control system: flexible image creation

With seven preset options, Nikon's Picture Control system makes it easy to define parameters such as sharpness, saturation, and hue whether you're shooting stills or video. You can finely adjust detail with Clarity. Or use the Flat option to ease post-production. With a tone curve closest to a straight line, Flat allows you to acquire as much information as possible regarding your subject's colour, brightness and texture. Ideal when shooting video footage that will be colour graded in post, this Picture Control prevents blown-out highlights, blocked-up shadows and unwanted colour saturation even after adjusting or editing.



INNOVATIVE OPERABILITY

Tilting monitor, touch screen and SnapBridge — The superior operability of the leading DX-format model

Touch-operation, tilting 8 cm/3.2 in., 2359k-dot high-resolution LCD monitor

The D500's highly responsive 8 cm (3.2 in.) 2359k-dot tilting LCD touchscreen monitor frees you to shoot from high or low angles. Shoot in Live View and you can use touch operation to set the focus point, release the shutter and acquire preset Spot White Balance data, based on the selected area within the frame. The high-resolution screen also makes it easy to scroll through and select key images, and input IPTC and copyright information on the spot.

Optical viewfinder offers widest-ever viewing angle

The D500's optical viewfinder allows real-time subject tracking, without the time lags that can occur in electronic viewfinders. This viewfinder also boasts the widest-ever viewing angle in a DSLR of this class*: approximately 30.8°.

*As of January 5, 2016, among DSLR cameras using an APS-C size image sensor.

DX agility: as tough as you need it to be

As the smaller sibling of the D5, the D500 can be relied on to perform when your photography takes you into extreme environments. A tough metal chassis is fitted with rugged magnesium alloy and carbon fiber parts to create a lightweight, durable monocoque body with a deep grip that's easier to hold. All joints, buttons, and dials are fully weather sealed. An energy-saving design is employed to give you the maximum number of shots between battery charges. The optional MB-D17 Multi-Power Battery Pack supports three different battery power sources, and makes the camera easier to handle during vertical shooting. And the high-performance shutter has been tested for 200,000 cycles.

Flagship control

The D500 boasts a control layout similar to that of the D5—including a sub-selector that can be used to select the focus point. It is the first DX-format Nikon DSLR to offer illuminated buttons for easier operation in the dark.

Dual memory card slots support high-speed formats

Two card slots (one for XQD cards, and one for SD UHS II cards), easily handle the D500's incredible shooting speeds, and ensure the buffer is instantly cleared for the next burst. It's possible to use both types of memory card at once, and there are multiple recording options available. You can record two full cards of unique data, record the same data onto two cards for instant backup, or record RAW and JPEG simultaneously onto separate cards. It's also possible to transfer data from one card to another, as well as selecting a slot for movie recording according to the remaining capacity on each card.

Keep your camera connected to your smart devices with SnapBridge

The D500 is the first Nikon DSLR to be compatible with SnapBridge. This clever Nikon app utilises *Bluetooth*®* Low Energy (BLE) technology to maintain a constant, low-power connection between your camera and your smartphone or tablet**. Now you can automatically sync shots to your smart device as you shoot, without draining your camera's battery. You can also control key camera functions via your smart device, and easily geotag images. Every time you land in a new location, SnapBridge automatically updates your camera with local and UTC time via the GPS info on your smart device, so images will be in the correct date order no matter how many time zones you cross. The D500's built-in NFC capability means it's easy to connect the camera to your smart device*** in order to activate SnapBridge for the first time.

* The *Bluetooth*® word mark is a registered trademark owned by Bluetooth SIG, Inc. and any use of such marks by Nikon Corporation is under license.
** Compatible iPhone and/or iPads and iPods, or smart devices running on the Android™ operating system.
***NFC is compatible only with Android OS. Smart device must support NFC.

The NIKKOR legacy: unleash the full potential of the D500

Like every Nikon DSLR, the D500 is best paired with legendary NIKKOR lenses, which provide unequalled clarity and versatility. The NIKKOR legacy is unmatched—there's a reason over 95 million have been sold to date.

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

AF-S NIKKOR 300mm f/4E PF ED VR © Marcel Lämmerhirt

AF DX Fisheye-NIKKOR 10.5mm f/2.8G ED © Todd Owyoung

AF DX Fisheye-NIKKOR 10.5mm f/2.8G ED

Nikon's first DX-format fisheye lens is an ultra-wide-angle 10.5mm prime, which achieves a 180-degree picture angle. Focus is possible at 14 cm, and the depth-of-field possibilities are endless.

AF-S DX NIKKOR 35mm f/1.8G

This prime DX lens features a large maximum aperture of f/1.8, which offers a bright viewfinder image and excellent performance in low light. Delivers high resolution and contrast with quiet AF.

AF-S DX NIKKOR 10-24mm f/3.5-4.5G ED

Create impressive landscapes, dramatic architectural shots, detailed streetscapes, and spacious-looking interiors. With three aspherical and two extra-low distortion (ED) glass elements, this this ultra-wide-angle zoom lens delivers images with incredible resolution and contrast.

AF-S DX Micro NIKKOR 85mm f/3.5G ED VR

Compact, lightweight DX-format Macro lens capable of 1:1 reproduction with extremely fine texture and detail. Nikon's second-generation VR ensures steady images both in the viewfinder and on the sensor, even when shooting handheld.

AF-S NIKKOR 70-200mm f/4G ED VR

Pair the D500 with this high-performance FX-format telephoto zoom, and get even closer to your subjects thanks to the 1.5x crop factor. This lens boasts a constant f/4.0 aperture and a classic zoom range for travel, wildlife, sports, and wedding photography. Nikon's acclaimed VR system lets you shoot at up to four stops slower.

AF-S NIKKOR 80-400mm f/4.5-5.6G ED VR

Pair the D500 with the AF-S NIKKOR 80-400mm f/4.5-5.6G ED VR lens, and the angle of view at the tele setting is equivalent to that of an FX-format DSLR fitted with a 600 mm telephoto lens.

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

This super-telephoto FX-format lens offers extreme reach in any shooting situation. With a constant f/5.6 aperture, Nikon's VR system, and SPORT VR for stable image acquisition in the heat of the moment, this lens is ideal for wildlife, motorsports, and airborne subjects. The electromagnetic diaphragm ensures precise exposure during high-speed bursts.

AF-S NIKKOR 300mm f/4E PF ED VR

Compact, powerful prime FX-format telephoto lens. A phase Fresnel element significantly reduces size and weight without sacrificing image quality, making this the perfect telephoto for travel and assignment. A fluorine coating repels water, dust, and dirt for enhanced durability in the field.

OTHER ACCESSORIES

SB-5000 (optional) attached to the D500

Lighting the shadows

The D500 is fully compatible with Nikon's acclaimed iTTL/Creative Lighting System and Nikon's new radio-controlled Advanced Wireless Lighting system. This means you can easily use the camera with Speedlights such as the professional SB-910, the compact SB-700, or the SB-5000, which utilises radio control technology. When combined with the optional WR-R10 transceiver, the D500 can control and wirelessly fire up to six groupings of SB-5000 units from another room, around corners, or outdoors in bright sunlight.

Rapid wireless transfer

For high-performance wireless file transfer at speeds of up to 866.7 Mbps over a distance of up to 200 m, pair the D500 with the optional WT-7A Wireless Transmitter. The transmitter attaches to the camera's interface connector and is powered by the camera body. It features Access Point, HTTP, and FTP modes and allows for the simultaneous release of several cameras. Remote control of camera settings and Live View output is possible in HTTP mode, or via a computer on which Nikon Camera Control Pro 2* software is installed. HTTP mode allows you to use any web browser, including one on a smart device, for remote operation via a wireless or Ethernet cable connection.

*Version update required for Camera Control 2 (Ver. 2.23.0 or later).

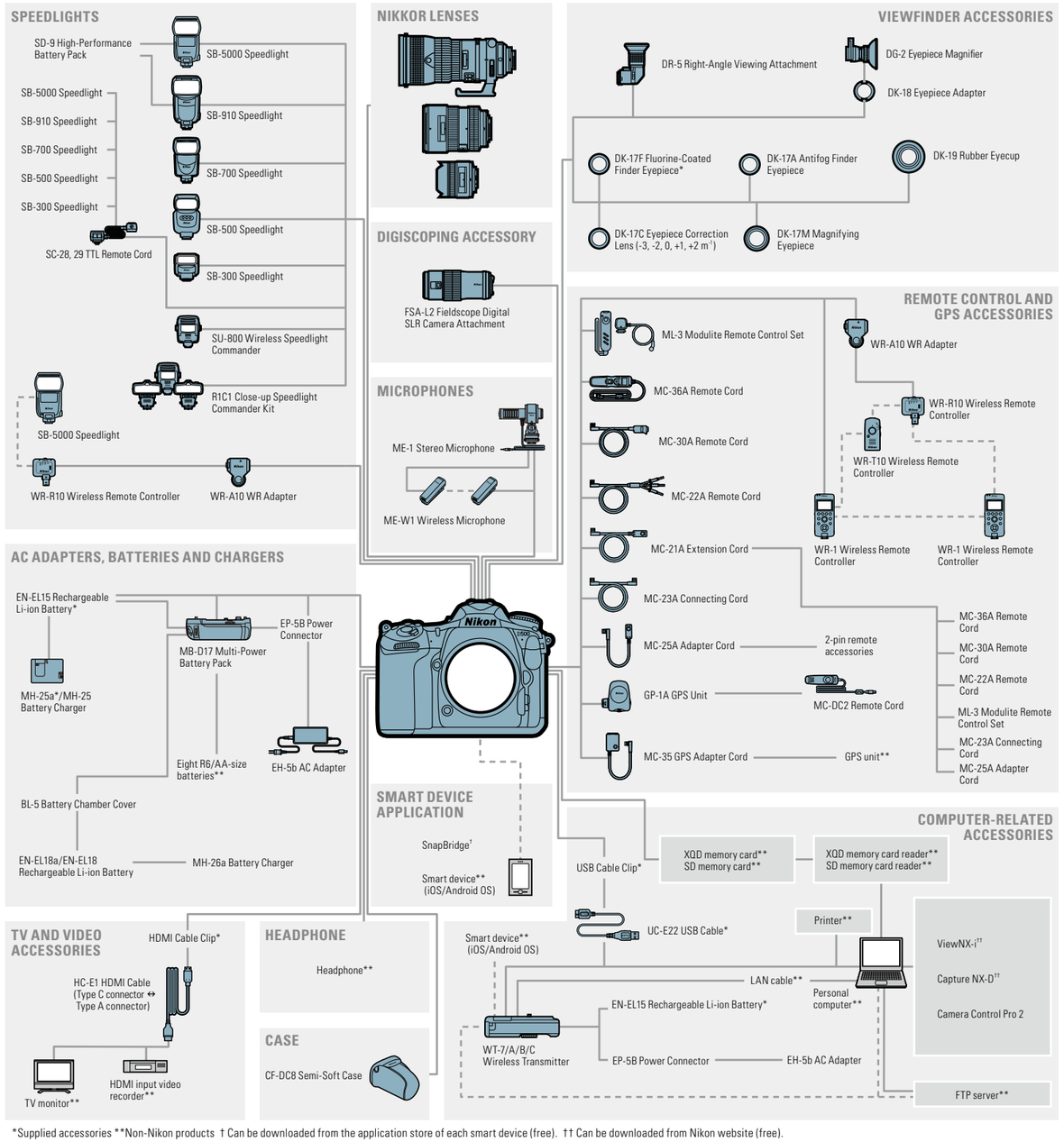
WT-7/A/B/C Wireless Transmitter (optional) attached to the D500

Extended battery life

For photographers who take the D500 where power supply is scarce, the MB-D17 Multi-Power Battery Pack extends operating time. It also enables more balanced, comfortable handling when shooting in portrait orientation. The pack features alternative shutter-release, multi-selector and AF start buttons for use when holding the camera in the vertical shooting position, as well as secondary main- and sub-command dials. It can be powered by Nikon's EN-EL15 Li-ion battery or six AA-size standard batteries. When using the optional BL-5 battery adapter, the MB-D17 can also be powered by Nikon's EN-EL18/EN-EL18a Li-ion batteries.

MB-D17 Multi-Power Battery Pack (optional) attached to the D500

System chart



*Supplied accessories **Non-Nikon products † Can be downloaded from the application store of each smart device (free). †† Can be downloaded from Nikon website (free).
The D500, WT-7/A/B/C Wireless Transmitter and WR-1/WR-R10 Wireless Remote Controllers are controlled by the United States Export Administration Regulations (EAR). The permission of the United States government is not required for export to countries other than the following, which as of this writing are subject to embargo or special controls: Cuba, Iran, North Korea, Sudan and Syria.

Nikon Digital SLR Camera D500 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 DX format; focal length in 35 mm [135] format equivalent to approx. 1.5× that of lenses with FX format angle of view
Effective pixels	20.9 million
Image sensor	23.5 × 15.7 mm CMOS sensor
Total pixels	21.51 million
Dust-reduction system	Image sensor cleaning, Image Dust Off reference data (Capture NX-D software required)
Image size (pixels)	• DX (24×16) image area: 5568 × 3712 [L], 4176 × 2784 [M], 2784 × 1856 [S] • 1.3× (18×12) image area: 4272 × 2848 [L], 3200 × 2136 [M], 2128 × 1424 [S] • Photographs with image area of DX taken during movie recording: 5568 × 3128 [L], 4176 × 2344 [M], 2784 × 1560 [S] • Photographs with image area of 1.3× taken during movie recording: 4272 × 2400 [L], 3200 × 1800 [M], 2128 × 1192 [S] • Photographs taken during movie recording at a frame size of 3840 × 2160: 3840 × 2160
File format	• NEF (RAW): 12 or 14 bit (lossless compressed, compressed or uncompressed); large, medium and small available (medium and small images are recorded at a bit depth of 12 bits using lossless compression) • TIFF (RGB) • JPEG: JPEG-Baseline compliant with fine (approx. 1:4), normal (approx. 1:8) or basic (approx. 1:16) compression; Optimal quality compression available • NEF (RAW)+JPEG: Single photograph recorded in both NEF (RAW) and JPEG formats
Picture Control System	Standard, Neutral, Vivid, Monochrome, Portrait, Landscape, Flat; selected Picture Control can be modified; storage for custom Picture Controls
Storage media	XQD, SD (Secure Digital) and UHS-II compliant SDHC and SDXC memory cards
Dual card slot	Either card can be used for primary 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 2.3, PictBridge
Viewfinder	Eye-level pentaprism single-lens reflex viewfinder
Frame coverage	• DX (24×16) image area: Approx. 100% horizontal and 100% vertical • 1.3× (18×12) image area: Approx. 98% horizontal and 98% vertical
Magnification	Approx. 1.0× (50 mm f/1.4 lens at infinity, -1.0 m^{-1})
Eyepoint	16 mm (-1.0 m^{-1}; from center surface of viewfinder eyepiece lens)
Diopter adjustment	-2 to +1 m^{-1}
Focusing screen	Type B BriteView Clear Matte Mark II 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	Compatible with AF NIKKOR lenses, including type G, E and D lenses (some restrictions apply to PC lenses) and DX lenses, AI-P NIKKOR lenses, and non-CPU AI lenses (A and M modes only); IX-NIKKOR lenses, lenses for the F3AF, and non-AI lenses cannot be used The electronic rangefinder can be used with lenses that have a maximum aperture of f/5.6 or faster (the electronic rangefinder supports 15 focus points with lenses that have a maximum aperture of f/8 or faster, of which 9 points are available for selection)
Shutter type	Electronically controlled vertical-travel focal-plane mechanical shutter; electronic front-curtain shutter available in mirror up release mode
Shutter speed	1/8000 to 30 s in steps of 1/3, 1/2 or 1 EV, bulb, time, X250
Flash sync speed	X=1/250 s; synchronizes with shutter at 1/250 s or slower
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 9 fps, CH: 10 fps, 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	TTL exposure metering using RGB sensor with approx. 180K (180,000) pixels
Metering method	• 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 8-mm circle in center of frame; diameter of circle can be changed to 6, 10 or 13 mm, or weighting can be based on average of entire frame (non-CPU lenses use 8-mm circle) • Spot: Meters 3.5-mm circle (about 2.5% of frame) centered on selected focus point (on center focus point when non-CPU 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	Programmed auto with flexible program (P); shutter-priority auto (S); aperture-priority auto (A); manual (M)
Exposure compensation	-5 to +5 EV in increments of 1/3, 1/2 or 1 EV
Exposure lock	Luminosity locked at detected value
ISO sensitivity (Recommended Exposure Index)	ISO 100 to 51200 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 50 equivalent) below ISO 100 or to approx. 0.3, 0.5, 0.7, 1, 2, 3, 4 or 5 EV (ISO 1640000 equivalent) above ISO 51200; auto ISO sensitivity control available
Active D-Lighting	Auto, extra high, high, normal, low or off
Autofocus	Multi-CAM 20K autofocus sensor module with TTL phase detection, fine-tuning, and 153 focus points (including 99 cross sensors and 15 sensors that support f/8), of which 55 (35 cross sensors and 9 f/8 sensors) are available for selection
AF detection range	-4 to 20 EV (ISO 100, 20°C/68°F)
Lens servo	• Autofocus (AF): Single-servo AF (AF-S); continuous-servo AF (AF-C); predictive focus tracking automatically activated according to subject status • Manual focus (M): Electronic rangefinder can be used
Focus point	153 focus points, of which 55 or 15 are available for selection
AF-area modes	Single-point AF; 25-, 72- or 153-point dynamic-area AF; 3D-tracking; group-area AF; auto-area AF
Focus lock	Focus can be locked by pressing shutter-release button halfway (single-servo AF) or by pressing the center of the sub-selector
Flash control	TTL: i-TTL flash control using RGB sensor with approx. 180K (180,000) pixels; i-TTL balanced fill-flash for digital SLR is used with matrix, center-weighted and highlight-weighted metering, standard i-TTL fill-flash for digital SLR with spot metering
Flash modes	Front-curtain sync, slow sync, rear-curtain sync, red-eye reduction, red-eye reduction with slow sync, slow rear-curtain sync, off; auto FP high-speed sync supported
Flash compensation	-3 to +1 EV in increments of 1/3, 1/2 or 1 EV
Flash-ready indicator	Lights when optional flash unit is fully charged; flashes 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, Advanced Wireless Lighting (optical/radio), auto FP high-speed sync, modeling illumination, FV lock, unified flash control, flash color information communication and AF-assist illumination for multi-point AF
Sync terminal	ISO 519 sync terminal with locking thread
White balance	Auto (3 types), incandescent, fluorescent (7 types), direct sunlight, flash, cloudy, shade, preset manual (up to 6 values can be stored, spot white balance measurement available during live view), choose color temperature (2500 K to 10000 K), all with fine-tuning
Bracketing types	Exposure, flash, white balance and ADL
Live view modes	📷 (photo live view), 🎥 (movie live view)
Live view lens servo	• Autofocus (AF): Single-servo AF (AF-S); full-time-servo AF (AF-F) • Manual focus (M)
AF-area modes	Face-priority AF, wide-area AF, normal-area AF, subject-tracking AF
Autofocus	Contrast-detect AF anywhere in frame (camera selects focus point automatically when face-priority AF or subject-tracking AF is selected)
Movie metering	TTL exposure metering using main image sensor
Movie metering method	Matrix, center-weighted or highlight-weighted
Frame size (pixels) and frame rate	• 3840 × 2160 (4K UHD); 30p (progressive), 25p, 24p • 1920 × 1080; 60p, 50p, 30p, 25p, 24p • 1280 × 720; 60p, 50p Actual frame rates for 60p, 50p, 30p, 25p and 24p are 59.94, 50, 29.97, 25 and 23.976 fps respectively; ★high quality available at all frame sizes, normal quality available at all frame sizes except 3840 × 2160
File format	MOV
Video compression	H.264/MPEG-4 Advanced Video Coding
Audio recording format	Linear PCM
Audio recording device	Built-in stereo or external microphone; sensitivity adjustable
ISO sensitivity	• Exposure modes P, S and A: Auto ISO sensitivity control (ISO 100 to Hi 5) with selectable upper limit • Exposure mode M: Auto ISO sensitivity control (ISO 100 to Hi 5) available with selectable upper limit; manual selection (ISO 100 to 51200 in steps of 1/3, 1/2 or 1 EV) with additional options available equivalent to approx. 0.3, 0.5, 0.7, 1, 2, 3, 4 or 5 EV (ISO 1640000 equivalent) above ISO 51200
Active D-Lighting	Extra high, high, normal, low or off
Maximum length	29 min. 59 s
Other movie options	Index marking, time-lapse movies, electronic vibration reduction
Monitor	8-cm/3.2-in., approx. 2359k-dot (XGA) tilting TFT touch-sensitive LCD with 170° viewing angle, approx. 100% frame coverage and manual monitor brightness control
Playback	Full-frame and thumbnail (4, 9 or 72 images) playback with playback zoom, movie playback, photo and/or movie slide shows, histogram display, highlights, photo information, location data display, auto image rotation, picture rating and IPTC information embedding and display
USB	SuperSpeed USB (USB 3.0 Micro-B connector); 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)
Ten-pin remote terminal	Can be used to connect optional remote control, WR-R10 (requires WR-A10 WR Adapter) or WR-1 Wireless Remote Controller, GP-1/GP-1A GPS Unit or GPS device compliant with NMEA0183 version 2.01 or 3.01 (requires MC-35 GPS Adapter Cord and cable with D-sub 9-pin connector)
Wireless standards	IEEE 802.11b, IEEE 802.11g
Authentication	Open system, WPA2-PSK
Bluetooth communication protocols	Bluetooth Specification Version 4.1
NFC operation	NFC Forum Type 3 Tag
Supported languages	Arabic, Bengali, Bulgarian, Chinese (Simplified and Traditional), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hindi, Hungarian, Indonesian, Italian, Japanese, Korean, Marathi, Norwegian, Persian, Polish, Portuguese (Portugal and Brazil), Romanian, Russian, Serbian, Spanish, Swedish, Tamil, Telugu, Thai, Turkish, Ukrainian, Vietnamese
Battery	One EN-EL15 Rechargeable Li-ion Battery
Battery pack	Optional MB-D17 Multi-Power Battery Pack with one EN-EL18a or EN-EL18 Rechargeable Li-ion Battery (available separately), one EN-EL15 Rechargeable Li-ion Battery or eight R6/AA-size alkaline, Ni-MH or lithium batteries; a BL-5 Battery Chamber Cover is required when using EN-EL18a or EN-EL18 battery
AC adapter	EH-5b AC Adapter; requires EP-5B Power Connector (available separately)
Tripod socket	1/4 in. (ISO 1222)
Dimensions (W × H × D)	Approx. 147 × 115 × 81 mm/5.8 × 4.6 × 3.2 in.
Weight	Approx. 860 g/1 lb 14.4 oz with battery and XQD memory card but without body cap; approx. 760 g/1 lb 10.9 oz (camera body only)
Operating environment	Temperature: 0 to 40°C/32 to 104°F; humidity: 85% or less (no condensation)
Supplied accessories (may differ by country or area)	EN-EL15 Rechargeable Li-ion Battery, MH-25a Battery Charger, DK-17F Fluorine-Coated Finder Eyepiece, UC-E22 USB Cable, USB Cable Clip, HDMI Cable Clip, AN-DC17 Camera Strap, BF-1B Body Cap

Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer. May 2016

WARNING **TO ENSURE CORRECT USAGE, READ MANUALS CAREFULLY BEFORE USING YOUR EQUIPMENT.**

Visit the Nikon Europe website at: **www.europe-nikon.com**

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