



At the heart of the image



I AM VISION OUTPERFORMED

95
million
NIKKOR

D5
www.europe-nikon.com





IN EACH MILLISECOND, A MASTERPIECE

Take a step forward. Fully equipped to match ambition with phenomenal images, the D5 delivers power and precision to beat the odds. Nikon's incredible next-generation 153-point AF system offers exceptionally wide coverage whether you're shooting the race or the red carpet. You can shoot at up to 12 fps with full-time AF and AE, while the new buffer allows up to 200 NEF (RAW) images to be captured during one high-speed burst. New image and metering sensors deliver phenomenally accurate subject recognition and image detail, even in extreme lighting conditions. The highest expanded sensitivity in Nikon's history (an unparalleled ISO 3280000) frees you to shoot from bright sunlight to astronomical twilight. And Nikon's widest standard ISO sensitivity range to date offers exceptional image quality up to ISO 102400. For moviemakers who go to extremes, D-Movie now enables high-definition 4K/UHD movies to be recorded in-camera with dot-by-dot readout for maximum image quality. No matter how far your vision takes you, this camera is ready to go further.

D5

Selectable between XQD-Type and CF-Type.
Either type incorporates double slots for two memory
cards of the same media.

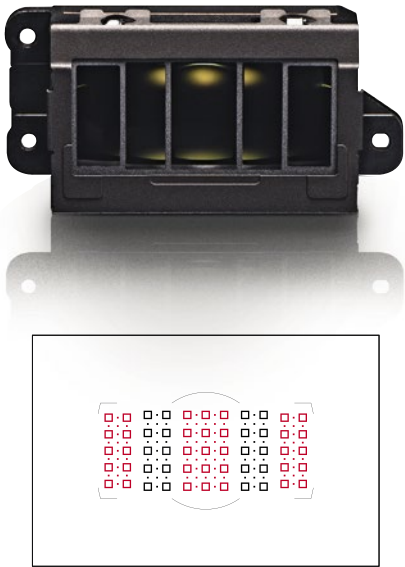




•Lens: AF-S NIKKOR 400mm f/2.8E FL ED VR •Image quality: JPEG fine★ (optimal quality) •AF-area mode: Dynamic-area AF (25 points) •Exposure: [M] mode, 1/3200 second, f/2.8 •White balance: Direct sunlight •Sensitivity: ISO 125 •Picture Control: Standard ©Matthias Hangst

Stay on top of your game with next-generation AF

153 focus points, 99 cross-type sensors and dedicated AF engine



Focus points: □ / □ / • / •
Selectable focus points: □ / □
Cross sensors: □ / •

Acquire and hold subjects tight—wider, denser coverage

The D5 features an all-new AF system with 153 densely-packed focus points (55 selectable points) and 99 cross-type sensors¹. As a result, total coverage is 130% greater than the coverage offered by the D4S. All focus points are compatible with AF NIKKOR lenses with an open aperture of f/5.6 or faster, and 15 central focus points work with an effective aperture of f/8. The 99 cross-type sensors¹ in central and peripheral areas deliver superior subject detection performance: small subjects moving at high speed can be tracked with a new level of precision. Subjects at the edge of the frame are easily detected, and vertical shooting is vastly improved.

¹ The number of focus points functioning as cross-type sensors may vary depending on aperture.



The D5's AF system detects low-contrast subjects.

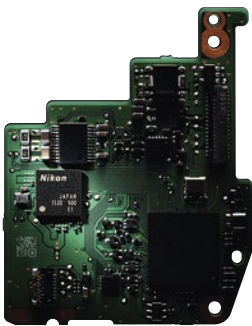
AF compatible down to -4 EV—superior low-light performance

Newly developed to keep noise to an absolute minimum, the D5's Multi-CAM 20K autofocus sensor module achieves focus at -4 EV² with the central point, and at -3 EV² with all focus points. AF performance is exceptional, even when shooting in low light or low-contrast situations. Combined with the camera's phenomenal ISO range, and the new 180K-pixel RGB metering sensor, the D5 significantly broadens the scope of your shooting opportunities.

² At ISO 100 and 20°C/68°F.

Dedicated AF engine—power and precision

Thanks to a new AF ASIC unit, maximum computing power is allocated to AF at all times. Comprised of a dedicated AF engine chip, capable of rapid calculations, and a sequence control microcomputer, this new unit delivers superior AF response, advanced subject detection, and detailed scene analysis. No matter how fast the action, the camera does not compromise. Shoot at up to 12 fps with AE/AF tracking, or at up to 14 fps with mirror up. AF tracking and viewfinder visibility are vastly improved when shooting sports, or any scene in which subjects tend to change direction suddenly. Faster sequential shutter and mirror mechanisms significantly reduce viewfinder blackout during high-speed bursts.



Improved AF modes

The new AF system enhances all seven AF-area modes. Single-point AF takes advantage of smaller focus points to deliver pinpoint precision. In dynamic area AF³, group-area AF, 3D-tracking and auto-area AF, the increased number of overall focus points enhances subject acquisition as each AF area is densely covered. Even during high-speed shooting, you'll capture fast-moving, unpredictable subjects with unprecedented smoothness.

³ In 25- or 72-point dynamic area AF, the number of focus points used may be less than 25 or 72, depending on the primary focus point selected.

Dynamic-area AF (25, 72 and 153 points)

In AF-C focus mode, the camera will focus based on information from surrounding focus points if the subject briefly leaves the selected point. The number of focus points varies with the mode selected:

- **25-point dynamic-area AF⁴:** Choose when there is time to compose the photograph or when photographing subjects that are moving predictably. For example when shooting runners or racecars on a track.
- **72-point dynamic-area AF⁴:** Choose when photographing subjects that are moving unpredictably, such as football players.
- **153-point dynamic-area AF:** Choose when photographing subjects that are moving quickly and cannot be easily framed in the viewfinder, such as birds.

Group-area AF

Track fast-moving subjects over long distances with phenomenal precision. The camera recognizes the subject as an area, using the selected point and surrounding points as a group. If faces are detected in AF-S focus mode, the camera will give priority to portrait subjects.

3D-tracking

In AF-C focus mode, the camera will track subjects that leave the selected focus point, and select new focus points as required. Used to quickly compose photos with subjects that are moving erratically from side to side, such as tennis players.

Auto-area AF

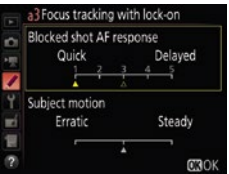
The camera automatically detects the subject and selects the focus point. If a face is detected, the camera will give priority to the portrait subject. The active focus points are highlighted briefly after the camera focuses; in AF-C mode, the main focus point is displayed after the other focus points have turned off.

⁴ In 25- or 72-point dynamic area AF, the number of focus points used may be less than 25 or 72, depending on the primary focus point selected.

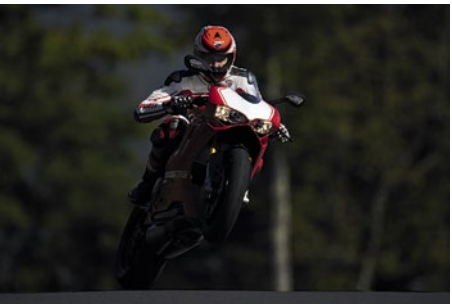
Adjustable AF lock-on

In AF-C mode, the camera activates predictive focus tracking if a subject moves toward, or away from, the camera. There are two ways to adjust the performance of AF lock-on, or focus tracking with lock-on.⁵ 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. Opt for 'Erratic' if the subject is prone to stopping and starting. Opt for 'Steady' if the subject is moving at a constant speed.

⁵ Available in AF-C lens servo mode.



Subject motion: Erratic



Subject motion: Steady



A whole new level of high sensitivity: shoot beyond what the eye can see

ISO 3280000 (expanded) × 20.8 megapixels × EXPEED 5



•Lens: AF-S NIKKOR 400mm f/2.8E FL ED VR •Image quality: JPEG fine★ (optimal quality) •AF-area mode: Dynamic-area AF (25 points) •Exposure: [M] mode, 1/1600 second, f/2.8 •White balance: Auto 0 •Sensitivity: ISO 10000
•Picture Control: Standard
©Matthias Hangst

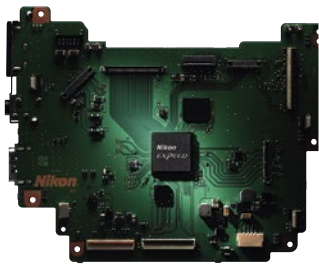
The picture above is cropped out of this JPEG picture and enlarged. JPEG images shot at high sensitivities retain high quality even after aggressive cropping, ensuring appropriate quality for media outlets.

Standard ISO range of 100 to 102400— the widest in Nikon’s history

The D5 blows the possibilities for low-light shooting wide open. Thanks to the new image sensor and EXPEED 5, the camera offers a phenomenally wide standard ISO range of 100 to 102400. Sensitivity can be reduced down to ISO 50 equivalent (Lo 1) and, in an incredible feat of engineering, extended to ISO 3280000 equivalent (Hi 5). Designed for specialist use, these astonishingly high ISO counts enable colour images to be captured without a flash in astronomical twilight, which is equivalent to an amazingly low 0.001 lux.

New FX-format CMOS sensor and EXPEED 5: a liberating experience

The D5’s all-new 20.8 MP FX-format CMOS image sensor and 180K-pixel RGB metering sensor deliver phenomenally accurate subject recognition and image detail. Developed in house, these new sensors ensure richer tonal gradations and dramatically improve auto white balance accuracy. Even if you’re shooting fast sports indoors, or subjects with highly saturated colours, you benefit. Alongside the new sensors, Nikon’s new EXPEED 5 image-processing engine boasts powerful calculation capabilities that easily handle the image sensor’s rich data and rapid write speeds. A signal processing system optimised for the new sensor’s 25% higher pixel count ensures image quality is unprecedented between ISO 3200 and 12800—the range favoured by sports photographers. Fine noise is dramatically reduced and even cropped images shot at high ISOs retain their quality. In addition, you can shoot at up to 12 fps with AE/AF tracking, or at up to 14 fps with mirror up, and record 4K/UHD (3840 × 2160)/30p video.



EXPEED 5



•Lens: AF-S NIKKOR 35mm f/1.4G •Image quality: JPEG fine★ (optimal quality) •AF-area mode: Single-point AF •Exposure: [M] mode, 1/250 second, f/7.1 •White balance: Auto 0 •Sensitivity: ISO 100
•Picture Control: Standard ©Dixie Dixon

Three auto modes in white balance

The D5’s white balance features three auto modes to help you achieve precise atmospheric results. Auto 0 ‘Keep white (reduce warm colours)’ is equivalent to Auto 1 ‘Normal’ mode on the D4S. This mode faithfully renders whites as white even under a light source with a low (reddish) colour temperature. The D5’s Auto 1 ‘Normal’ mode maintains a balance between the original subject colour and the ambient lighting. And the Auto 2 ‘Keep warm lighting colours’ mode retains the colour of incandescent or other lighting for images with a natural sense of warmth.

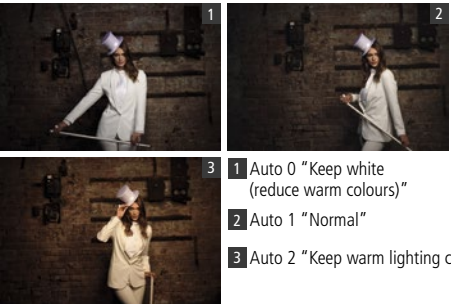
Picture Control system: create your ideal image

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 subjects’ 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 colour saturation even after adjusting or editing.



Enhance your workflow with custom Picture Controls

Creating custom Picture Controls for specific subjects and scenes enables you to shoot JPEG images that won’t require post-production processing. Up to nine custom options can be saved in the camera’s preset modes. And Nikon’s Picture Control Utility 2 (available for free download from Nikon websites) lets you refine the details of your custom Picture Controls on a computer before transferring them back to your camera via memory cards.



- 1 Auto 0 “Keep white (reduce warm colours)”
- 2 Auto 1 “Normal”
- 3 Auto 2 “Keep warm lighting colours”



●Lens: AF-S NIKKOR 200mm f/2G ED VR II ●Image quality: JPEG fine★ (optimal quality)
●AF-area mode: Group-area AF ●Exposure: [M] mode, 1/3200 second, f/2 ●White balance: Preset manual
●Sensitivity: ISO 10000 ●Picture Control: Standard
©Matthias Hangst

12-fps with full-time AF/AE ×
200 NEF (RAW) image buffer

The D5 provides photographers with the power and precision to shoot up to 12 fps⁶ with full-time AF/AE, at any image quality or sensitivity including Hi 5. The new, blisteringly fast EXPEED-5 image-processing engine handles rapid data readout from the image sensor, while the camera’s high-performance buffer allows up to 200 NEF (RAW) or large JPEG images to be captured during one high-speed burst: enough to cover an entire 100 m sprint final without taking your finger off the shutter-release button.

⁶ Assumes shutter speed of 1/250 s or faster in CH (Continuous high-speed) release mode.

Reduced viewfinder blackout during
high-speed bursts

The D5’s faster sequential shutter and mirror mechanisms significantly reduce viewfinder blackout during high-speed bursts. Shutter charge and mirror sequencing times are minimised to provide a stable, clear viewfinder image with minimal blur. Even erratic subjects can now be acquired and tracked with confidence during continuous shooting.

Sport VR mode further enhances
viewfinder visibility

SPORT VR mode delivers an incredibly stable viewfinder image when tracking high-speed movement. For ultimate precision, pair the D5 with a NIKKOR super-telephoto lens such as the AF-S NIKKOR 600mm f/4E or the AF-S NIKKOR 500mm f/4E, and you’ll capture fast-moving, unpredictable subjects with unprecedented smoothness.

14 fps continuous shooting—
nail decisive moments

The D5 lets you shoot at up to 14 fps⁷ with mirror up⁸, at any image quality or sensitivity up to Hi 5. Thanks to the camera’s high-performance buffer, you can shoot up to 200 frames continuously, even in 14-bit lossless compressed RAW⁹.

⁷ Assumes shutter speed of 1/250 s or faster in CH (continuous high) release mode.

⁸ Optional Speedlights will not fire when 14 fps (mirror up) mode is selected.

⁹ When using Lexar Professional a 2933x XQD 2.0 memory card.

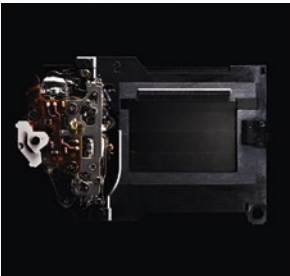
Detachable eyepiece adapter and eyepiece
with fluorine coat

The D5’s detachable DK-27 Eyepiece Adapter makes it easy to attach a rain cover in inclement weather. Attach a second DK-27 Eyepiece Adapter to your rain cover, and you can swap the adapters over in seconds should the weather turn. The viewfinder eyepiece itself boasts Nikon’s unique fluorine coat, which repels water, dust, and dirt without compromising image quality. The coating also makes it easier to clean the eyepiece.



Durable, high-precision shutter

Tested for 400,000 cycles with the shutter unit loaded into a fully assembled camera, the D5 is ready to take on the heavy demands of professional photography. The shutter unit also features a self-calibrating shutter monitor to ensure it fires with the greatest possible accuracy at the designated shutter speed.



Rugged body—
professional-grade protection

The D5’s durable body is built from a magnesium alloy for exceptional strength without added weight. Reliably constructed to the highest standards, this light, rugged body also boasts extensive dust- and weather-sealing.



Energy efficient design—
extended battery life

The D5 demonstrates exceptional energy efficiency, so you can concentrate on shooting without having to worry about battery life¹⁰. The internal power circuit has been optimised and key components, such as the EXPEED 5 processing engine, have all been designed to minimise energy consumption. The EN-EL18a Rechargeable Li-ion Battery enables up to approx. 3780 shots per charge in single-frame release mode (Based on CIPA Standards), or approx. 8160 shots in continuous-release mode (Under test conditions established by Nikon). This high-capacity battery also allows filming for approx. 110 min. (CIPA Standards).

¹⁰ Battery durability varies depending on operating environment, including battery charge, shooting cycles, and menu settings.





Go to extremes: ultra-high-definition D-Movies

4K/UHD video × ISO 102400 × NIKKOR × Rugged body

4K/UHD (3840 × 2160) video

As the first Nikon DSLR to record 4K/UHD movies in-camera, the D5 hugely exceeds the moviemaking flexibility of the D4S. 4K movies (3840 × 2160 pixels) can be recorded at 30p/25p/24p in dot-by-dot native pixel crop, which ensures the highest image quality. Approx. 8 MP JPEGs can be extracted from 4K/ UHD videos by saving selected frames. The camera offers clean HDMI out: even 4K movies can be output uncompressed to HDMI with 8-bit 4:2:2 YCbCr. HDMI output is available for all movie resolutions during remote shooting.



- **4K/UHD video × Dot-by-dot readout × EXPEED 5**
Dot-by-dot readout means information from every pixel on the image sensor is recorded. And thanks to the advanced video processing capabilities of EXPEED 5, footage undergoes less in-camera processing overall resulting in detail-rich, high-resolution videos.
- **4K/UHD video × High ISO performance**
Thanks to the D5’s maximum standard sensitivity of ISO 102400, expandable up to Hi 5 (ISO 3280000), extreme low light doesn’t have to be a barrier to high-quality video production. When filming in M mode, sensitivity for all video resolutions and crop modes can be set from ISO 100 all the way up to Hi 5. Auto ISO allows ISO 200 up to Hi 5.
- **4K/UHD video × NIKKOR lenses**
NIKKOR lenses are highly praised by filmmakers for their sharpness and exceptional rendering capabilities. Use NIKKOR optics and the D5 becomes a uniquely agile cinematic system. The 4K/UHD image area (3840 × 2160) is almost the same as the super-35 movie format.

- **4K/UHD video × Flat Picture Control**
Of the seven Picture Controls, Flat can save valuable time in post. The Flat Picture Control enables recording of as much image information as possible, making it easy to produce high-resolution video material suitable for post-production.



Before After post-production

Multi-area D-Movie: selectable image areas

The D5 offers four selectable image areas¹¹, allowing you to shoot in different styles with a minimal number of lenses. The FX-based image area takes advantage of the camera’s large image sensor to deliver video with beautiful bokeh. Both the DX-based movie format and the 4K/UHD movie image area (3840 × 2160) have an angle of view equivalent to approx. 1.5x lens focal length. The Full HD native dot-by-dot crop (1920 × 1080) image area is equivalent to approx. 3x lens focal length.

¹¹ The aspect ratio is 16:9 in any movie image area.



Auto ISO control: record with a fixed shutter speed and aperture in M mode

When filming a scene in which the brightness changes within one take, the D5 gives you precise control over depth of field and motion-blur. To maintain appropriate exposure, simply set the shutter speed and aperture in exposure mode M while using auto ISO sensitivity control. To avoid running too high, you can set a maximum sensitivity limit between ISO 200 and Hi 5.

In-camera time-lapse movie feature: compatible with 4K/UHD

The D5 lets you record stunning 4K/UHD time-lapse, right in camera. This feature is compatible with all sensor crop formats, frame rates, and video qualities. To reduce unwanted flicker in time-lapse movies where the brightness may change dramatically, such as those shot at dawn or dusk, simply use the camera’s exposure smoothing function. Designed to reduce the subtle exposure variance of each frame when shooting in auto modes, this function is also available for interval timer photography.

High-fidelity audio control

The D5 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). It’s also possible to select the sound range (wide/voice). Wind noise can be reduced when recording with the built-in microphone.

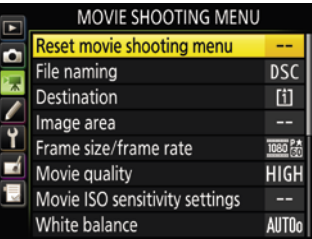
Exposure compensation and power aperture: engineered for movie recording

When shooting a scene with drastic exposure changes, the D5’s delicate auto exposure control allows you to transition smoothly from low light to bright light, or vice versa. Even at high ISO settings, the camera renders changes naturally while maintaining rich tonal gradation and details. Exposure compensation is now possible¹² using the Pv button (for + compensation) and Fn1 button (for - compensation). The power aperture control^{12, 13} can also be assigned to the Pv button (power aperture [open]) and Fn1 button (power aperture [close]), allowing you to continuously change brightness and depth of field during filming.

¹² You can pre-assign functions to the PV and Fn1 buttons for smooth, virtually stepless adjustment during movie Live View and recording.
¹³ Available in A and M exposure modes.

Streamlined moviemaking workflow

Movie-shooting menu
Handy when switching between shooting stills and movies, a dedicated movie menu streamlines shooting by storing all movie settings in one place.



Setting changes via i button
Press the **i** button when shooting in Live View to quickly access and change key settings including frame size/frame rate and movie quality.

HDMI output during remote filming using Camera Control Pro 2

Connect the D5 to a computer with Nikon’s Camera Control Pro 2 software installed and you can transfer video footage (including 4K/UHD video) directly to external HDMI recorders during remote filming. The results of exposure and sensitivity setting changes can be confirmed via Live View image on both the D5 and the external computer monitor. Camera Control Pro 2 also offers start/stop control for recording 4K/UHD video and Full HD video to the in-camera memory card, as well as transfer of movies to a computer after shooting. 4K/ UHD videos recorded using Camera Control Pro 2 are also supported by ViewNX-i software.



ME-1 Stereo Microphone



ME-W1 Wireless Microphone



Touch-responsive, 8-cm/3.2-in., 2359k-dot high-resolution monitor

Incorporating feedback from the field, the D5 is engineered to reduce the stress factors of shooting all day. Improved ergonomics and an expanded illuminated button layout put key controls at your fingertips. A high resolution XGA touchscreen LCD with a smartphone-like interface makes it easy to select AF points or Spot White Balance in Live View, swipe through shots, pinch to zoom, edit file names and more. The touch-operated onscreen keyboard also makes entering text much easier, helping you quickly register copyright or IPTC information, as well as the names of files, folder groups and networks.



Spot White Balance



Text entering

Uncompromised performance with XQD

The camera's dual card slot unit can load two XQD cards or two CF cards (Type I, UDMA compatible), and you can choose between two D5 models depending on your memory card preference.¹⁴ For photographers shooting sports, action and other fast paced events, or 4K/UHD video, XQD media cards that easily handle the camera's shooting speeds are vital.

¹⁴ Dual memory card slot unit can be exchanged after purchase at Nikon service facilities (a charge applies).



XQD-Type



CF-Type

Selectable RAW size options

For even faster performance, the D5 lets you shoot in two smaller RAW file sizes. RAW size S and RAW size M (both 12-bit lossless compressed) both maintain exceptional sharpness and detail for flexible editing. They are also compatible with in-camera NEF (RAW) processing.



Turbocharge your workflow: ultra high-speed data transfer

A new USB 3.0 port enables high-speed transfer of large amounts of data. Wireless transfer is 4x faster, and Ethernet connection is now 2x faster, compared to the D4s. You can transfer files over wireless LAN at blazing speeds with the new (optional) WT-6 Wireless Transmitter¹⁵, which supports the IEEE802.11ac standard and extends connectivity distance to approx. 200 m¹⁶. Now you can quickly send pictures from the field to editors' computers, or from the studio to storage/review servers. The optional WT-5 Wireless Transmitter is also compatible with the D5. And the newly incorporated Fn3 button, under the OK button, has the 'Connect to network' command pre-assigned as the default setting, allowing for quick access to the network menu screen.

¹⁵ Wireless Transmitter Utility (downloadable from Nikon websites) must be installed.

¹⁶ With large antenna at wireless LAN access point. Range varies with signal strength and presence, or absence, of obstacles.



Convenient, multifunctional HTTP server mode

The HTTP server mode allows continuous shooting with remote cameras via a computer or smart-device web browser. The D5 also allows you to enter text via web browsers, so you can check and edit in-camera IPTC, comments, and copyright information.

Access point mode for easy connection with wireless LAN

The D5 can be used as a wireless LAN access point with the optional WT-6 Wireless Transmitter (or optional WT-5 Wireless Transmitter) attached. Up to five wireless devices can be connected at the same time in HTTP server mode. This is opposed to only one device in FTP upload, image transfer, and camera control modes.

VOICES OF THE PROFESSIONALS



Sports

Matthias Hangst
(Germany)

The D5 really pushes things to a new level. Better ISO performance gives me the chance to shoot with faster shutter speeds and freeze any sort of action. Once, when the sun was coming in really low, we were shooting a player in a white jersey in order to see how the D5 performs with low contrast, backlit objects. We got around 20 or 30 frames in a row and the AF tracking performance was really impressive.



Photojournalism/
Sports/Filmmaking

Bill Frakes
(U.S.A.)

This is an amazing imaging machine. It has unbelievably accurate autofocus systems, high ISO beyond anything I could previously have imagined possible, and unmatched ergonomics. I'm so excited to have a 4K file from a Nikon. 4K is critical to me because I want to show every detail in a file format that will remain viable and contemporary far into the future. I've dedicated my life to storytelling, and I can absolutely depend on Nikon to see me through.



Motor sports

Mirco Lazzari
(Italy)

The photo of the rider just as he turned the corner and came right up close to me—you have to shoot 12 frames in one second to capture a shot like this! The way the D5's autofocus tracked and acquired the image, and the clear visibility of the viewfinder, are two big steps forward which made this photo possible.



Fashion/Beauty/Lifestyle

Dixie Dixon
(U.S.A.)

I absolutely loved working with the D5. Skin tones are extremely important in my work, and I feel like this camera really excels in that area. Thanks to its continuous shooting speed and autofocus, you can also capture what you couldn't before: those split second facial expressions are usually the best shots. I also found the new touch screen very helpful in letting me quickly zoom in to check sharpness, hair/makeup and many other details.



Nature/Wildlife

Ole Jørgen Liodden
(Norway)

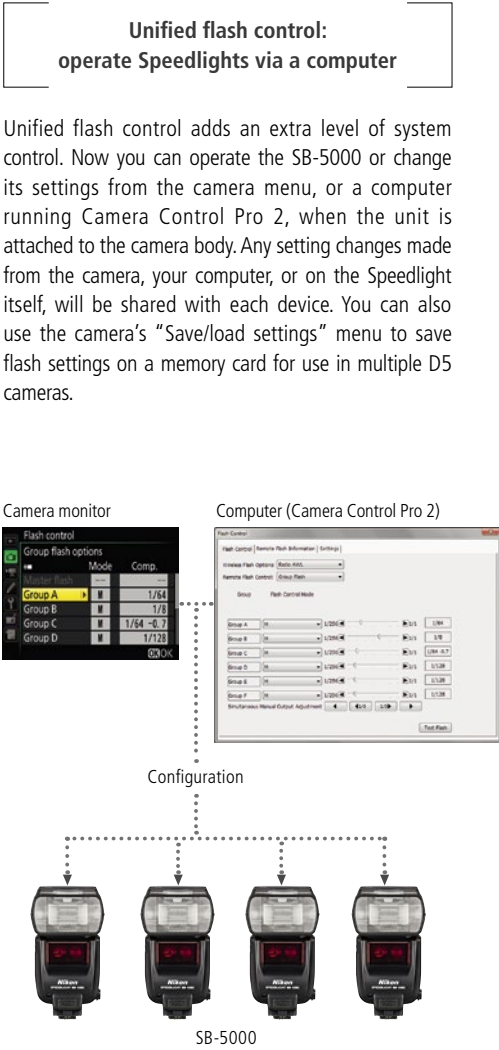
The fact that the D5's autofocus can detect subjects even at -4 EV is a great update. Once we saw two grizzly bears, young adults, fighting or playing in the water. It was very dark and I was shooting at ISO 102400, but the image quality was still impressive. It rained almost every day on the Alaska shoot and the camera was usually wet, but it still worked perfectly. That's extremely important to me: it means I have a tool that works in all kinds of conditions.

New possibilities: Nikon Creative Lighting System

Radio-controlled Advanced Wireless Lighting × Unified flash control



●Lens: AF-S NIKKOR 80-400mm f/4.5-5.6G ED VR ●Image quality: JPEG fine★ (optimal quality) ●AF-area mode: Group-area AF ●Exposure: [M] mode, 1/1250 second, f/7.1 ●White balance: Color temperature (5000 K) ●Sensitivity: ISO 10000 ●Picture Control: Standard ●Speedlight: SB-5000 (radio-controlled AWL and auto-FP high-speed sync used)
©Dave Black



**Light it right with the SB-5000—
powerful radio-controlled Speedlight**

The SB-5000 is our first radio controlled Speedlight and it offers unparalleled lighting performance in the field and the studio. Radio signals allow working distances of 30 m and enable complex on- and off-camera setups: now you can work in any environment in which the line of sight is obstructed or an optical signal might be weakened by bright sunlight. In addition, the new onboard cooling system prevents overheating of the flash panel. It allows more than 100 rapid-fire shots to be captured with the flash operating at full power.

**Control in demanding situations: radio-
controlled Advanced Wireless Lighting**

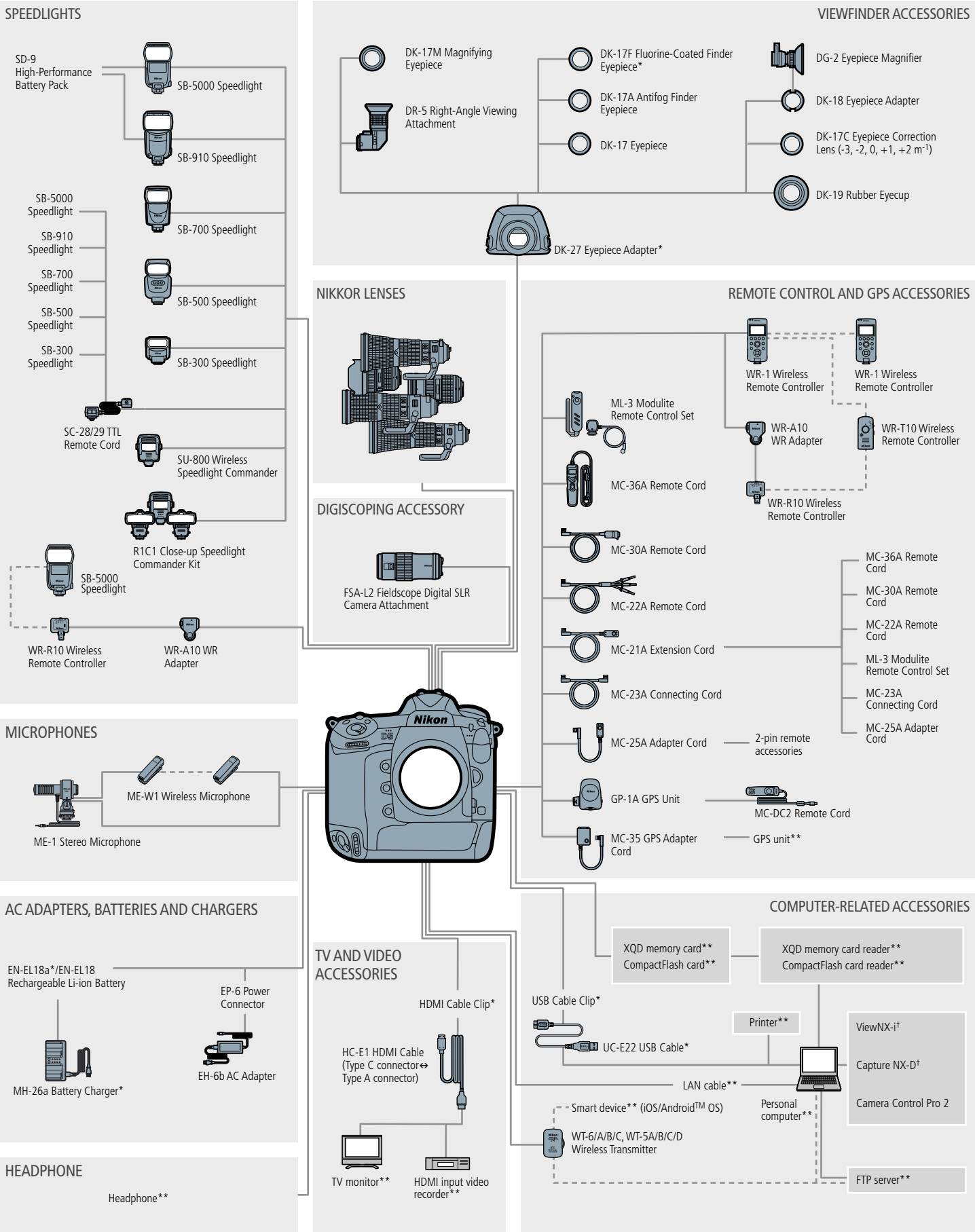
The D5 fully supports the new radio-control function in Nikon's Creative Lighting System. Fire single or multiple flashgun setups using the optional WR-R10 Wireless Remote Controller¹⁷ and up to six groupings of remote SB-5000 units. Optical control is also fully supported, which means legacy Speedlights can still be used for multiple flash setups..

¹⁷ Requires optional WR-A10 WR Adapter. The WR-R10's firmware must be ver. 3.00 or later.

**Auto ISO control:
attain the exposures you need**

Select target exposure areas and automatically control ISO during flash photography. Choose 'Subject and Background' to give even weight to the background as well as the main subject, for example when shooting a night scene. Select 'Subject Only' to obtain an optimal exposure of the main subject alone. Maximum ISO sensitivity for flash shooting can be set, from ISO 200 all the way up to Hi 5.

System chart



* Supplied accessories ** Non-Nikon products † Can be downloaded from Nikon websites (free).

Nikon Digital SLR Camera D5 Specifications

Type of camera	Single-lens reflex digital camera
Lens mount	Nikon F mount (with AF coupling and AF contacts)
Effective angle of view	Nikon FX format
Effective pixels	20.8 million
Image sensor	35.9 × 23.9 mm CMOS sensor
Total pixels	21.33 million
Dust-reduction system	Image sensor cleaning, Image Dust Off reference data (Capture NX-D software required)
Image size (pixels)	● FX (36×24) image area: 5568 × 3712 (L), 4176 × 2784 (M), 2784 × 1856 (S) ● 1.2x (30×20) image area: 4640 × 3088 (L), 3472 × 2312 (M), 2320 × 1544 (S) ● DX (24×16) image area: 3648 × 2432 (L), 2736 × 1824 (M), 1824 × 1216 (S) ● 5.4 (30×24) image area: 4640 × 3712 (L), 3472 × 2784 (M), 2320 × 1856 (S) ● Photographs taken during movie recording at a frame size of 3840 × 2160: 3840 × 2160 ● FX-format photographs taken during movie recording at a frame size of 1920 × 1080 or 1280 × 720: 5568 × 3128 (L), 4176 × 2344 (M), 2784 × 1560 (S) ● DX-format photographs taken during movie recording at a frame size of 1920 × 1080 or 1280 × 720: 3648 × 2048 (L), 2736 × 1536 (M), 1824 × 1024 (S) ● Photographs taken during movie recording at a frame size of 1920 × 1080 crop: 1920 × 1080
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 and Flat; selected Picture Control can be modified; storage for custom Picture Controls
Storage media	● XQD-Type (Models for use with XQD cards): XQD cards ● CF-Type (Models for use with CompactFlash cards): Type I CompactFlash memory cards (UDMA7 compliant)
Dual card slot	2 XQD cards or 2 CompactFlash (CF) cards, Slot 2 can be used for overflow or backup storage or for separate storage of copies created using NEF+JPEG; 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	● FX (36×24): Approx. 100% horizontal and 100% vertical ● 1.2x (30×20): Approx. 97% horizontal and 97% vertical ● DX (24×16): Approx. 97% horizontal and 97% vertical ● 5.4 (30×24): Approx. 97% horizontal and 100% vertical
Magnification	Approx. 0.72x (50 mm f/1.4 lens at infinity, -1.0 m ⁻¹)
Eyepoint	17 mm (-1.0 m ⁻¹ ; from center surface of viewfinder eyepiece lens)
Diopter adjustment	-3 to +1 m ⁻¹
Focusing screen	Type B BriteView Clear Matte Mark IX screen with AF area brackets (framing grid can be displayed)
Reflex mirror	Quick return
Depth-of-field preview	Pressing P/v 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), DX lenses (using DX [24×16] 1.5x image area), AI-P NIKKOR lenses, and non-CPU AI lenses (exposure modes A and M 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 the 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, X/250
Flash sync speed	X=1/250 s; synchronizes with shutter at 1/250 s or slower
Release modes	S (single frame), C _L (continuous low speed), C _H (continuous high speed), Q (quiet shutter-release), S _T (self-timer), M _{UP} (mirror up)
Approx. frame advance rate	Up to 10 fps (C _H); 10 to 12 fps, or 14 fps with mirror up (C _H); or 3 fps (quiet continuous mode)
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 12-mm circle in center of frame; diameter of circle can be changed to 8, 15 or 20 mm, or weighting can be based on average of entire frame (non-CPU lenses use 12-mm circle) ● Spot: Meters 4-mm circle (about 1.5% 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 102400 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 3280000 equivalent) above ISO 102400; auto ISO sensitivity control available
Active D-Lighting	Can be selected from auto, extra high +2/+1, 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
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)	Supported
Radio-controlled Advanced Wireless Lighting	Supported
Unified flash control	Supported
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) with available silent mode, 🎬 (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 ● 1920 × 1080 crop; 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 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 102400 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 3280000 equivalent) above ISO 102400
Other movie options	Index marking, time-lapse movies
Monitor	8-cm/3.2-in., approx. 2359k-dot (XGA) 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, voice memo input and playback, 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, optional 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 optional MC-3S GPS Adapter Cord and cable with D-sub nine-pin connector)
Ethernet	RJ-45 connector ● Standards: IEEE 802.3ab (1000BASE-T)/IEEE 802.3u (100BASE-TX)/IEEE 802.3 (10BASE-T) ● Data rates: 10/100/1000 Mbps with auto detect (maximum logical data rates according to IEEE standard; actual rates may differ) ● Port: 1000BASE-T/100BASE-TX/10BASE-T (AUTO-MDIX)
Peripheral connector	For WT-6/A/B/C, WT-5A/B/C/D Wireless Transmitter
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-EL18a Rechargeable Li-ion Battery
AC adapter	EH-6b AC Adapter; requires EP-6 Power Connector (available separately)
Tripod socket	1/4 in. (ISO 1222)
Dimensions (W × H × D)	Approx. 160 × 158.5 × 92 mm/ 6.3 × 6.3 × 3.7 in.
Weight	● XQD-Type (Models for use with XQD cards): Approx. 1405 g/3 lb 1.6 oz with battery and two XQD memory cards but without body cap and accessory shoe cover; approx. 1235 g/ 2 lb 11.6 oz (camera body only) ● CF-Type (Models for use with CompactFlash cards): Approx. 1415 g/3 lb 1.9 oz with battery and two CompactFlash memory cards but without body cap and accessory shoe cover; approx. 1240 g/2 lb 11.8 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-EL18a Rechargeable Li-ion Battery, MH-26a Battery Charger, UC-E22 USB Cable, AN-DC15 Camera Strap, BF-1B Body Cap, BS-3 Accessory Shoe Cover, USB Cable Clip, HDMI Cable Clip, DK-27 Eyepiece Adapter, DK-17F Fluorine-Coated Finder Eyepiece, BL-6 Battery Chamber Cover

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

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WARNING

TO ENSURE CORRECT USAGE, READ MANUALS CAREFULLY BEFORE USING YOUR EQUIPMENT. SOME DOCUMENTATION IS SUPPLIED ON CD-ROM ONLY.

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Nikon Europe B.V. Tripolis 100, Burgerweeshuispad 101, 1076 ER Amsterdam, The Netherlands
Nikon U.K. Ltd. Nikon House, 380 Richmond Road, Kingston upon Thames, Surrey KT2 5PR, U.K. www.nikon.co.uk
NIKON CORPORATION Shinagawa Intercity Tower C, 2-15-3, Konan, Minato-ku, Tokyo 108-6290, Japan www.nikon.com