



LEAVE NOTHING TO CHANCE_____

Nikon

DB

CAPTURE TOMORROW





DECISIVE POWER. FASTER WORKFLOW. ABSOLUTE RELIABILITY.

What do professional sports photographers need to succeed? A fast frame rate and uncompromising autofocus are only part of the equation. They need a camera that can capture high-quality images of decisive moments reliably, in almost any situation. And they need to be able to select and deliver those images to the market faster than anyone else. Nikon's new D6 flagship FX-format D-SLR camera gives them exactly that, combining a new, higher-density AF system and EXPEED 6 image-processing engine with improved post-shooting workflow and the proven ruggedness of the D5. Wherever the game takes you, the D6 will keep you in the lead.

• Nikon's most powerful, higher-density AF system with 105 all-cross-type focus points

- Faster 1000BASE-T, and wireless communication via built-in Wi-Fi and WT-6/A/B/C Wireless Transmitter
- Simultaneous JPEG + JPEG recording for JPEG shooters
- Flick operation to prioritize important images to transfer, for faster delivery
- Clear optical viewfinder and newly developed mirror drive structure offer a stable view for sports scenes with 14-fps* shooting
- EXPEED 6 delivers standard ISO up to 102400 with high image quality even in extremely low light
- Compatibility with Kensington[®] anti-theft locks
- Diverse selection of NIKKOR telephoto lenses up to 800 mm helps achieve superb images

* Depending on lens, aperture, etc.







POWERFUL, BRAND NEW AF SYSTEM



HIGHER-SPEED CONTINUOUS SHOOTING PERFORMANCE



ENHANCED POST-SHOOTING WORKFLOW FOR FASTER DELIVERY



SUPERB, READY-TO-PUBLISH IMAGE QUALITY

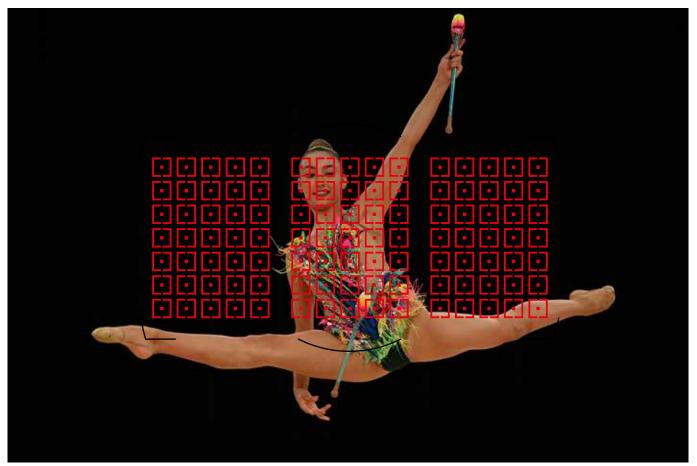


NIKON'S PROFESSIONAL RELIABILITY AND OPERABILITY



PROFESSIONAL SYSTEM AND SUPPORT

POWERFUL, BRAND NEW AF SYSTEM



© Matthias Hangst

Approx. 1.6× higher-density AF coverage with 105 selectable cross-type focus points for more reliable performance even with complicated subject movements and in difficult lighting

Surpassing the phenomenal dependability of the D5, the D6 sets a new benchmark for AF performance. Its newly designed Multi-CAM 37K autofocus sensor module features 105 focus points^{*1} — all cross-type, all



selectable — which allows users to focus where they want without adjusting their composition. The use of a triple-sensor arrangement for each focus point and the new focus point layout reduce non-AF-sensitive areas, and achieve approx. $1.6 \times$ higher-density AF coverage compared to the D5, enabling even more accurate subject acquisition. Moreover, the center focus point works down to -4.5 EV^{*2} and the others to -4 EV^{*2}, making autofocus possible even in dark situations or with low-contrast subjects.

*1 All 105 focus points are compatible with AF NIKKOR F lenses with apertures of f/5.6 or faster, the AF-S DX NIKKOR 18-300mm f/3.5-6.3G ED VR and the AF-P DX NIKKOR 70-300mm f/4.5-6.3G ED VR. The 15 central points work with an effective aperture of f/8. D6

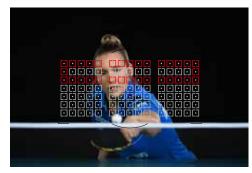
*2 At ISO 100, 20 °C/68 °F.



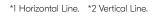
AF-area mode: Group-area AF 15 × 1 © Matthias Hangst

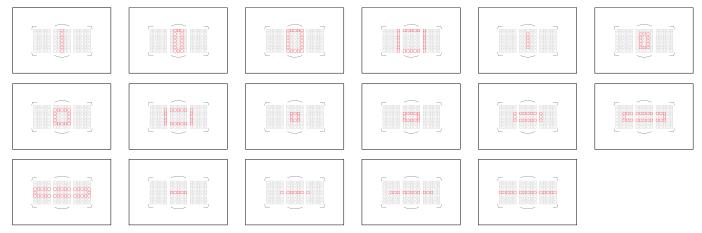
17 custom group-area AF mode variations help achieve intended focus results in various shooting situations

Professional sports photographers often have a specific composition in mind when capturing the decisive moments in each game or race. The D5's grouparea AF HL^{*1} and VL^{*2} modes are known to excel in such scenes. In addition to the conventional cross arrangement, the D6 further expands the group-area AF layout variations with 17 custom arrangements, which you can select according to your intended composition and obstacles in the frame. For instance, if you want to shoot a table tennis player across the net, you can use custom grouparea AF 11 × 3 or 15 × 3 to keep focusing on the player moving laterally. In critical situations, this becomes a powerful tool for sports shooters.

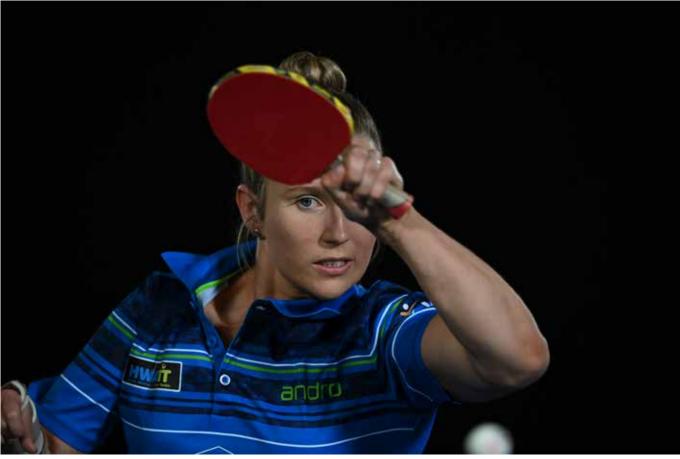


AF-area mode: Group-area AF 15 × 3 © Clive Mason





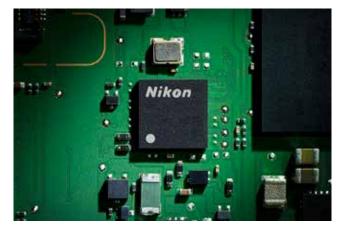
Note: Each pattern of focus points can be moved up, down, to the left or right. All focus points enclosed by the rectangle are also effective.



AF-area mode: Single-point AF © Clive Mason

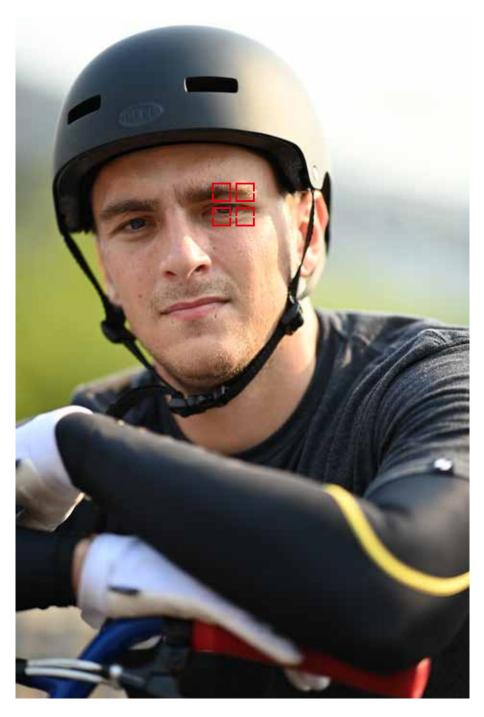
Dedicated new AF engine processes approx. 1.6× more defocus information simultaneously for enhanced AF tracking of moving subjects

The D6's autofocus improvements don't stop at the new AF module. Its dedicated AF engine has also been newly developed. By simultaneously calculating approx. 1.6× more defocus information compared to the D5, the D6 is able to distinguish the intended area of focus from its surroundings and reliably maintain focus on it, even as it moves, during approx. 14-fps high-speed continuous shooting*. The benefit is especially clear when AF lock-on strength is increased. For example, even in scenes where a runner's hand or a table tennis racket obscures the focused face, you can keep your focus on the intended subject.



Dedicated AF engine

* Depending on lens, aperture, etc.

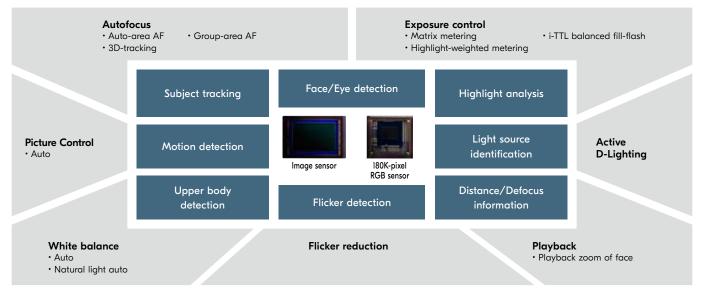


Advanced Scene Recognition System improved to further enhance AF performance

AF performance is enhanced even further by improvements in the Advanced Scene Recognition System, which works together with the D6's dedicated AF and EXPEED 6 imageprocessing engines. Face and upper body information, defocus information and motion detection information improve the camera's ability to maintain focus on laterally moving subjects in 3D-tracking and auto-area AF modes. In a first for optical viewfinder shooting*, the D6 also prioritizes focus point selection based on the positions of the subject's eyes. This makes it easier to keep the subject's eye in focus for portrait opportunities.

* When autofocusing using AF sensor module.

AF-area mode: Auto-area AF © Matthias Hangst





AF-area mode: Single-point AF © Clive Mason

"Wide" focus point option enables focusing as intended in sudden, unexpected situations

Photographers sometimes encounter situations where an opportunity arises so suddenly that it's hard to capture the intended subject within the chosen focus points. The D6's "wide" option expands the detection area for singlepoint AF and dynamic-area AF, making it easier to achieve focus on a subject even if it is slightly outside the focus point. This feature is particularly useful when assigned to one of the function buttons, allowing it to be accessed quickly as required.



Single-point AF (Normal)

Single-point AF (Wide)





Ability to set AF starting point expands the potential of auto-area AF

The D5's auto-area AF mode was designed to give professional sports photographers greater freedom over composition, and this ability is further enhanced with the D6. For example, in a scene where you expect a downhill skier or skateboarder to jump from a blind position, you can set the AF starting point onto a ridge to focus on the athlete as he/she comes suddenly into view, avoiding obstacles in the foreground. This allows photographers to concentrate more on framing.

AF-area mode: Auto-area AF © Matthias Hangst

►	a Autofocus	G
۵	a9 Group-area AF face detection	120N
惈	Custom groupings (C1/C2)	
/	all Auto-area AF face detection	© ON
	allauto-area AF starting point	ON
∎ I	aBFocus point persistence	AUTO
	al4Limit AF-area mode selection	
₽	al5Autofocus mode restrictions	0FF
	al6Focus point wrap-around	0FF



AF starting point is set on where the athlete is expected to appear.

POWERFUL, BRAND NEW AF SYSTEM

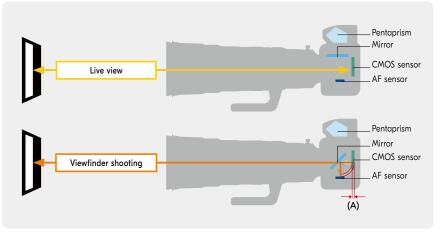
Improved AF fine-tuning allows highly precise focusing throughout the wide-angle to telephoto range with zoom lenses

The D6's AF fine-tune function now enables you to make subtle adjustments at both the wide-angle and telephoto ends of zoom lenses, assuring higher AF precision throughout the zoom range, whether adjusting manually or automatically. Also, with the AF-S NIKKOR 120-300mm f/2.8E FL ED SR VR, AF-S NIKKOR 180-400mm f/4E TC1.4 FL ED VR and AF-S NIKKOR 500mm f/5.6E PF ED VR, the camera can remember unique AF fine-tuning values optimized for individual lenses. This permits users who have multiple lenses of the same kind to fine-tune differently.



Auto AF fine-tune system

- I Achieve focus in live view
- 2 Difference of defocus amount (A) between where the user achieved focus in live view and phase-detection AF is calculated
- ${\bf 3}~$ (A) is recorded as the AF tuning value



Note: For zoom lenses, this process must be carried out for both the wide- and tele-ends.



HIGHER-SPEED CONTINUOUS SHOOTING PERFORMANCE



© Matthias Hangst

Approx. 14-fps*¹ high-speed continuous shooting to capture more decisive moments

Professional sports shooters can't afford to miss key moments, and the D6's approx. 14-fps high-speed continuous shooting capability with AF and AE tracking gives you the power to capture them. The camera can maintain this amazing speed for up to 200 frames of JPEG fine, while allowing real-time confirmation of the scene through its clear optical viewfinder with approx. 0.72× magnification*². And thanks to a newly designed mirror bounce reduction mechanism, the D6 further suppresses vibration of the viewfinder image and offers a stable and sharp view when shooting sports scenes at 14 fps.



*1 Depending on lens, aperture, etc.

*2 50 mm f/1.4 lens at infinity, -1.0 m $^{-1}\!\!.$

Approx. 60-fps High-Speed Frame Capture reveals hidden action

When you want to capture a particular moment, such as the instant a sprinter lifts their hands off the ground from a crouching start, the D6 is able to take 2-megapixel images at approx. 60 fps^{*1}, as well as 8-megapixel images at approx. 30 fps^{*2} by keeping the shutter-release button pressed in movie live view mode. Now you can reveal minute differences during moments of critical action, for use in online news reports.

 $^{\ast}\ensuremath{\mathsf{l}}$ With Full HD selected for image quality.

 $^{\ast}2$ With 4K UHD selected for image quality.

Note: AF is locked on the first frame while AE tracks in this mode.





Assuming this is the first frame at both 14 fps and 60 fps

Moments that can be captured at 60 fps but not at 14 fps

2nd frame at 14 fps

Silent photography with 20.8 megapixels at up to approx. 10.5 fps

There are times when the sound of a shutter might ruin the atmosphere. When shooting a golf player concentrating on reading the green or a press conference where discretion is required, the D6's silent photography function in live view mode allows you to capture sequences at full resolution in complete silence*. It is also useful for reducing wear on the shutter mechanism during interval-timer and time-lapse photography.

^{*} AF is locked on the first frame while AE tracks. Rolling shutter distortion may occur.

ENHANCED POST-SHOOTING WORKFLOW FOR FASTER DELIVERY

Faster wired LAN communication keeps you ahead of the competition

The speed at which you deliver images to your clients can literally make or break your business. The D5 was already highly acclaimed for its image transfer speeds via wired LAN communication, but the D6 is even faster. Using the same reliable 1000BASE-T standard, it achieves 15% quicker transmission — making you even more competitive.

Flexible, reliable wireless communication options

Communication infrastructure varies depending on the venue, and the D6 gives you the flexibility to deliver images accordingly. In addition to the 2.4 GHz band, which tends to be unstable due to radio interference from other electronic devices, the camera's built-in Wi-Fi lets you transfer images to your computer*¹ or a router nearby using the 5 GHz band*², ensuring reliable transmission. It also enables you to transfer images to your smart devices using SnapBridge. The optional WT-6/A/B/C Wireless Transmitter is useful for sending images to editors, as it allows transfers over distances of up to approx. 200 m/656.1 ft with the IEEE 802.11ac standard. Meanwhile, you can keep shooting and editing while the images are transmitted.

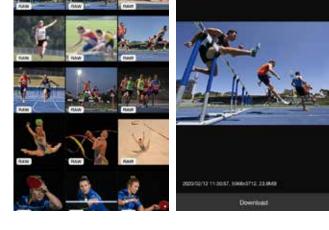
- *1 Wireless Transmitter Utility (downloadable from Nikon websites) must be installed.
- *2 Not available in certain areas.

SnapBridge for easy image transfers to smart devices



You can transfer images to your smart devices using SnapBridge*, letting you post them on social media for on-the-spot reports. The most recent SnapBridge ver.2.6 also permits you to transfer RAW images.

* SnapBridge is compatible with iPhone®, iPad®, iPod touch® or smart devices running on the Android™ operating system. Available free from Apple App Store® and Google Play™. Please check Nikon's website for further information.



MA2_6919.NEF





Simultaneous recording of JPEG small/medium in basic image quality and JPEG large for JPEG shooters

Many sports photojournalists choose the speed of JPEGs over the malleability of RAW. In order to meet their needs, it's now possible to record images simultaneously in two different JPEG sizes or quality options onto separate cards. You can send images at the smaller size for faster delivery while retaining large JPEGs for subsequent editing.



Slot 1: JPEGs recorded in size and quality set using the Qual button or still image recording menu

Slot 2: JPEGs recorded in S/M size and BASIC quality

Note: Example of simultaneous JPEG recording.

Ability to designate playback slot and jump between simultaneously recorded images, for smooth post-shooting workflow

Sports photographers often send small JPEGs right after shooting to ensure fast delivery, despite recording larger files at the same time. With the D6, you can set the card slot storing the smaller JPEGs as the playback slot, allowing you to quickly select for transfer. When you want to confirm focus with large JPEG, the i menu lets you jump to the larger file in the other slot, then return to the smaller one, for more fluid and intuitive operation.



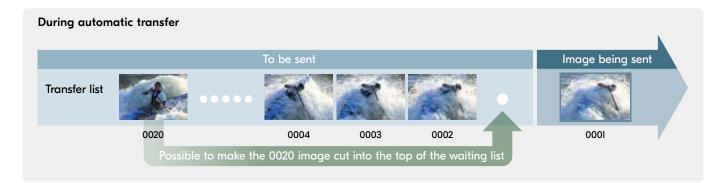
"Jump to copy on other card" in the i menu allows you to go to Slot 1 to confirm focus on the large image and then return to Slot 2 to transfer the small image.



Flick operation for selecting and sending the most competitive images even faster

Delivering the winning images fastest is crucial, even when you don't have access to wired LAN for high-speed transmission. With the D6, you can use a flick operation^{*1} on the LCD monitor during image playback to designate an image to be sent first, before others that have not yet been transmitted — convenient when using the WT-6/A/B/C Wireless Transmitter. This helps you get ahead of the competition. It is also possible to assign other commands such as protect, rate and add voice memo to flick operation, for up to two upward and downward flicks^{*2}.

- *1 Send command is also available via the i menu, using an assigned function button, or by simultaneous pressing of OK button and the multi selector center button.
- *2 One flick activates the assigned command. Another flick in the same direction cancels the command.



Filtered image playback for faster image review

Having faster access to only the images that matter means a lot when you have limited time to review your shots. The D6 offers a filtered playback option from the *i* menu, that displays only images that meet certain criteria: protected, rated, sent and unsent. You can also now set frame advance of rated images by rotating the sub-command dial during full-frame playback, along with the existing options for protected images, stills, movies folders and 10- or 50-frame jump.



Simultaneous deletion of two identical images with a single operation

When recording identical images to both slots in "RAW and JPEG" or "JPEG and JPEG", or identical copies in "Backup recording", the D6 lets you delete both at once with a single operation, for improved efficiency. If images have a voice memo attached, you can choose to delete only the memo, or to delete the image as well.



SUPERB, READY-TO-PUBLISH IMAGE QUALITY



Lens: AF-S NIKKOR 500mm f/4E FL ED VR • Exposure: [M] mode, 1/8000 s, f/6.3 • White balance: Auto 0 • Sensitivity: ISO 100 • Picture Control: Standard
 © Clive Mason

Improved auto white balance for better stability and clear skin tones

The D6's EXPEED 6 image-processing engine reproduces clear skin tones without any color overcast. A newly incorporated "time sequence analysis algorithm" helps the camera's auto white balance achieve more precise and stable white balance results by presuming the current shooting scene based on chronologically accumulated information. You can expect more stable auto white balance performance in a variety of

scenarios, whether it's for sports or portraits.







White balance: Auto 1 © Matthias Hangst



White balance: Auto 1 © Matthias Hangst

Standard ISO up to 102400 and EXPEED 6 ensure images are ready for use, straight from the camera

High image quality also means speed to the market, as images from the camera will rarely require post-production enhancement. The D6 pushes this even further. While maintaining 20.8 effective megapixels and a highest standard ISO sensitivity of 102400, its EXPEED 6 imageprocessing engine delivers even better image quality, with noise effectively suppressed throughout the wide ISO range. What's more, as EXPEED 6 supports the mid-range sharpening parameter — which works together with the existing sharpening and clarity parameters — the resulting images display more overall sharpness and depth, which is maintained unchanged even after trimming. The camera also offers diffraction compensation, which helps provide crisp images when using a smaller aperture to obtain a deeper depth of field.



• Sensitivity: ISO 6400 © Clive Mason

Quick sharp function enables faster sharpness adjustments

If you want to increase image sharpness rapidly and effectively before or after the shoot, try the Quick sharp function incorporated in the Picture Control System. With a single slider operation, it lets you adjust all three sharpening parameters — sharpening, mid-range sharpening, and clarity to deliver optimum results, regardless of usage size.



Quick sharp -2



0



Quick sharp +2

Standard Quick sharp 0 Sharpening +3.00 Mid-range sharpening +2.00 Clarity +1.00 Contrast 0.00 Brightness 0.00 Saturation 0.00 Image: Attraction Image: Attraction Image: Attraction Image: Attraction

20 Creative Picture Controls for instant, distinctively different looks

Creative Picture Control offers 20 different options for adding a distinctive feel to your images instantly, in-camera. They are available in all exposure modes, as well as in movie recording, and you can adjust the effect level in incremental steps on a range from 0 to 100, to explore your preferred look.





Dramatic

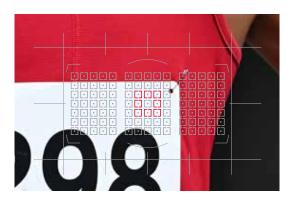
SUPERB, READY-TO-PUBLISH IMAGE QUALITY

More measures for accurate white balance

If auto is selected for white balance in venues where light conditions are not stable with mixed light sources, the D6 allows you to maintain consistent white balance by pressing an assigned custom button to lock the white balance. The camera also makes it easier to measure white balance using preset manual even when shooting with the optical viewfinder, as it requires a much smaller area (3×3 focus points) to acquire gray/white information. This means you don't have to switch lenses to acquire preset manual data, letting you keep shooting smoothly.



PV button



More options for quick editing

The D6 now offers more flexible options for editing images in-camera. The retouch menu lets you trim images to change them between horizontal and vertical, as well as quickly and intuitively select the trimming area by pinching in and out. What's more, it now enables a lighten/darken/add image overlay, which was previously only possible when shooting in multiple-exposure mode, and only with consecutively shot images. Now you can choose freely from individual images, sequential images or folders to create multiple exposures in postproduction.



Dark image overlay

NIKON'S PROFESSIONAL RELIABILITY AND OPERABILITY

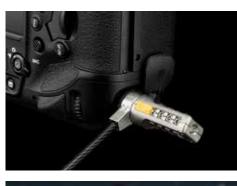


Refined operability, with grip and button layout identical to the D5

Gear needs to work like a natural extension of the photographer. Muscle memory is important in the race to deliver images. The D6 feels just right in your hands, incorporating the same deep, secure grip and button layout as the D5 to ensure comfortable shooting. While the majority of operation systems are unchanged, it offers smoother handling, in response to feedback from agency photographers. Full touch operation is now possible, and the top-deck and rear LCD control panels provide better visibility when button illumination is used in dark situations. The connector location has also been redesigned to make it possible to connect an HDMI cable even when the WT-6/A/B/C Wireless Transmitter is attached.

Supports Kensington® lock for theft prevention

To keep the D6 safe against theft, especially when used in a remote camera position or left in a press room, the camera is designed to be secured with a Kensington[®] lock for anti-theft wiring. This allows photographers to concentrate on what's important — their job — while assuring peace of mind when they are away from their equipment.







Dependable real-world ruggedness to keep you shooting in harsh situations

In competitive real-world shooting situations, photojournalists' cameras are buffeted by other photographers' gear while fighting for position, and they often have to shoot in freezing conditions or rain. Even in such tough environments, the D6 is truly dependable. Employing a light, strong magnesium alloy on the top, rear and bottom covers, as well as the front and rear body, it possesses an extremely robust and durable body, while maintaining high electromagnetic-shielding and heatemission performance. Effective sealing and the uneven structure of joined sections ensure Nikon's highest resistance level to dust and water droplets, letting you shoot with the utmost confidence, even through sudden weather changes. The shutter unit employs highly durable Kevlar fiber for the shutter curtains, and has been tested for 400,000 cycles while actually loaded in a fully assembled camera. Passing Nikon's most rigorous tests under rain and dust, as well as various shocks and impacts, the D6 is ready to take on the heaviest professional demands.



Speedier camera setting changes via customizable *i* button

The *i* button gives you a shortcut to a wide selection of frequently accessed camera settings and lets you change them quickly. You can customize the *i* menu to show the settings you use most, further streamlining your workflow.





Advanced customization options to meet different users' needs

The D6 has 14 customizable controls (including the focus activation button on NIKKOR lenses), to which you can assign an array of 46 functions*. In addition, white balance, AF-area mode and AF lock-on are newly added as customizable settings for "Recall shooting functions". This enables sports shooters to switch instantly between different camera settings according to their needs. For example, while shooting athletic track events in dynamic-area AF, you can swiftly switch to auto-area AF and focus smoothly on field events such as javelin.



* Assignable functions differ depending on the control.

46 functions that can be assigned in custom controls:

PRE	Preset focus point		Playback	
[1]	AF-area mode	ÞY	Filtered playback	
[1]65	AF-area mode + AF-ON	~	Select to send (wired LAN/WT)	
AF-ON	AF-ON	RESET	Select center focus point	
Δī.	AF lock only	= AFON	Same as AF-ON button	
Æ®	AE lock (Hold)	SHOOT	SHOOT Photo shooting menu bank	
۵.	AE/AWB lock (hold)	AF/[+]	AF mode/AF area mode	
Å:®	AE lock (Reset on release)	R	Choose image area	
£3	AE lock only	₿ġ.	Active D-Lighting	
Å	AE/AF lock	DLY	Exposure delay mode	
\$L	FV lock	്ക്	Shutter spd & aperture lock	
() /\$	\$ Disable/enable	06	1 step spd/aperture	
6	Preview	Non-CPU	Choose non-CPU lens number	
,¢	Recall shooting functions	MODE	Exposure mode	
BKT型	Bracketing burst	Z	Exposure compensation	
۵≓۵	Sync. release selection	ISO	ISO sensitivity	
+RAW	+ NEF (RAW)	So.	Metering	
	Framing grid display	*	Rating	
÷	Viewfinder virtual horizon	ВКТ	Auto bracketing	
ĥ	Voice memo		Multiple exposure	
器/\T	Wired LAN/WT	HDR	HDR (high dynamic range)	
₹	MY MENU	= 🕀	Same as multi selector	
ſ≂	Access top item in MY MENU	[1]	Focus point selection	

Optical viewfinder with approx. 0.72× magnification* and approx. 100% frame coverage delivers clear, real-time visibility

It is imperative for professionals to see their subjects' movements clearly and in real-time in order to capture decisive moments. That's why Nikon designed the D6 as a D-SLR that offers a natural, stress-free view under various light sources, even during long hours of shooting. The new "Clear Matte B" viewfinder screen delivers smoother bokeh and more precise focus confirmation. The detachable viewfinder eyepiece adopts a fluorine coat that repels dirt and water droplets.



 * 50 mm f/1.4 lens at infinity, -1.0 m $^{\text{-1}}$

Dependably long battery life

The D6 demonstrates exceptional energy efficiency, so you can concentrate on shooting without having to worry about battery life. The internal power circuit has been optimized, and key components such as the EXPEED 6 image-processing engine are designed to minimize energy consumption. The EN-EL18c Rechargeable Li-ion Battery enables up to approx. 3580 shots per charge in single-frame release mode^{*1}, or approx. 8670 shots in continuousrelease mode^{*2}, and filming for approx. 105 min^{*1}.

*1 Based on CIPA Standards.

*2 Under Nikon's own test conditions.

Built-in GPS for photojournalists to precisely map and synchronize images*

Accurate location and time information are essential for photojournalists. To meet their requirements, the D6 is newly equipped with built-in GPS. This enables news agencies that work with GPS maps to accurately confirm the locations of captured images, and place images from multiple journalists working at the same locations in chronological order.

* Compatible with GPS signals emitted from GPS satellites, GLONASS satellites, and Quasi-Zenith satellites. GPS is not available in certain countries.

Nikon W

IPTC metadata compatible with XMP

With the D6, IPTC metadata is now compatible with XMP. This allows you to confirm and edit metadata in Photo Mechanic[®], the image-browsing software used by many professionals, for an even more streamlined workflow.



[26]

4K UHD video with enhanced recording capabilities

The D6 offers 4K UHD videos at 30p/25p/24p with dot-by-dot readout, and Full HD at up to 60p, with a standard ISO range from 100 to 102400. It's now possible to record in both MP4 and MOV formats, while the addition of focus peaking and time codes further enhances operability. You can also capture still images* (at the same size as videos) while shooting video, without having to stop recording.

 * During movie recording, a maximum of 50 frames in single-frame release is possible.

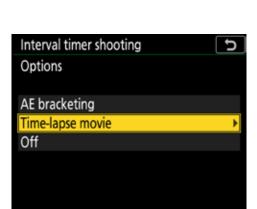
Time-lapse movies generated in-camera with interval-timer photography

Interval-timer photography has become more convenient with the D6. Once you have finished shooting, you can automatically create a time-lapse movie in-camera, in 4K UHD or Full HD. This allows you to instantly confirm the results on site. AE bracketing is also possible during interval-timer shooting.

More flexible shutter speed setting extendable up to 900 s

The D6 extends the maximum shutter speed setting from 30 seconds to 900 seconds. You can now shoot extremely long exposures with a single press of the shutter-release button, without the need to keep it held down, or to use accessories such as a wireless remote controller or remote release cord.

▶ d7Extended shutter speeds (M)
 ▶
 ▶
 On
 ▶
 Off
 ▶





PROFESSIONAL SYSTEM AND SUPPORT



Diverse range of NIKKOR F lenses, from ultra-wide-angle to super-telephoto

Lenses are the decisive factor in photography. NIKKOR F lenses are praised by leading professionals for their excellent sharpness, and are available in a diverse lineup of primes and zooms, from ultra-wide-angle to super-telephoto, to support various needs. Fast super-telephoto lenses, indispensable for sports and wildlife shooters, enable astonishing image rendition for indoor sports and low-light scenes. Combined with the D6, your NIKKOR F lenses reveal lifelike emotions, sharp and clear from edge to edge.

NIKKOR



AF-S Fisheye NIKKOR 8-15mm f/3.5-4.5E ED © Matthias Hangst



AF-S NIKKOR 800mm f/5.6E FL ED VR © Matthias Hangst



© Matthias Hangst



AF-S NIKKOR 120-300mm f/2.8E FL ED SR VR

One ED glass and two fluorite lens elements combined with Nikon's new SR (Short-wavelength Refractive) lens technology achieve superb image quality while minimizing chromatic aberration. Nikon's advanced ARNEO Coat, first employed with the NIKKOR Z 24-70mm f/2.8 S, is used alongside Nano Crystal Coat to attain unparalleled ultra-low reflection throughout the visible light spectrum, delivering exceptional clarity even when there are light sources in the frame. Vibration Reduction (VR) provides compensation equivalent to a shutter speed 4.0 stops* faster. The algorithm that controls Silent Wave Motor drive has also been enhanced to ensure better AF tracking performance, even when the speed of the subject's movement changes suddenly.

* Based on CIPA Standard; in NORMAL mode. This value is achieved when attached to a D-SLR camera equipped with a 35mm film size image sensor.



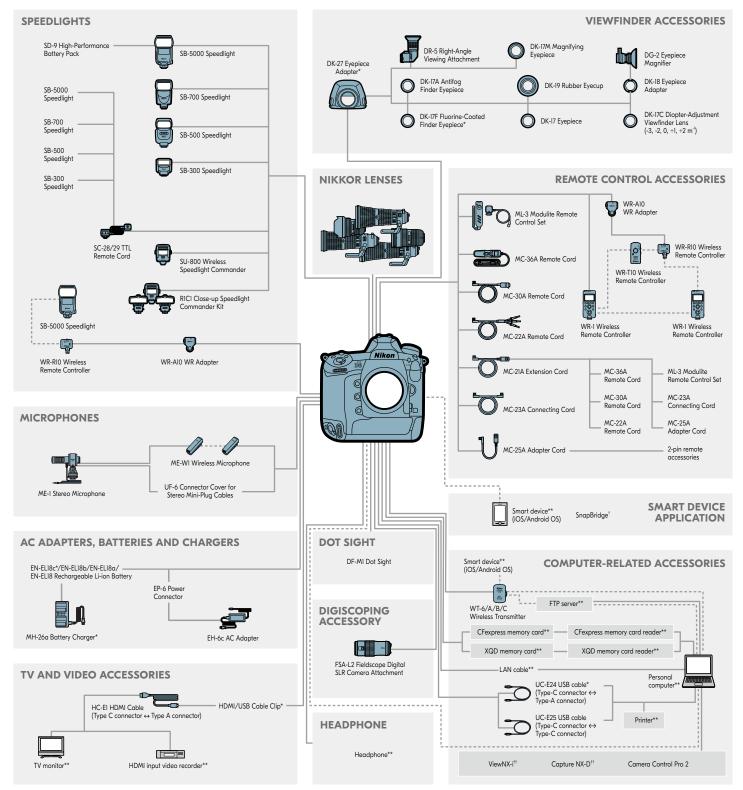
Dependable support for professionals on a global level (NPS)

Nikon's relationship with professional photographers is about more than technology: it's about ensuring they can always get their job done with confidence, wherever they are. Nikon Professional Services (NPS) offers a global support network* to members. This means that if an NPS member from the United States has an accident and damages their camera while on assignment in Europe, they can have access to priority repair or rental services from the local NPS branch. Local NPS support also provides inspection and cleaning of registered products.

* Support and services are provided at the NPS service centers listed on the NPS Global website.



SYSTEM CHART



* Supplied accessories. ** Non-Nikon products. † Can be downloaded from the application store of each smart device (free). †† Can be downloaded from Nikon websites (free).









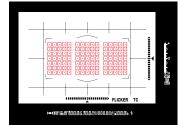


- GNSS antenna
- 2 Exposure mode button
- 8 Release mode dial lock release
- ④ Eyelet for camera strap
- 6 Bracketing button
- 6 Release mode dial
- Metering button
- 8 Movie-record button Power switch
- Shutter-release button
- Exposure compensation button 12 ISO sensitivity button/Formatting memory cards button
- Top control panel
- Focal plane mark
- Diopter adjustment control
- Accessory shoe (for optional flash unit)
- USB connector cover
- Peripheral connector cover
- (B) HDMI connector cover
- Over for microphone, headphone, and Ethernet connectors
- Battery-chamber cover
- Battery-chamber cover latch
- 23 Peripheral connector
- Ø USB connector
- 4 HDMI connector
- 2 Connector for external microphone
- Headphone connector
- Ethernet connector
- ② Stereo microphone (for movies)
- Sub-command dial
- O Pv button

- 69 Fn1 button
- In State State
- Bub-command dial for vertical shooting Shutter-release button for vertical
- shooting
- 6 Fn button (vertical)
- Security slot (attachment point for anti-theft cable locks)
- Vertical shooting shutter-release button lock
- 39 CPU contacts
- Self-timer lamp
- ④ Flash sync terminal cover
- Ten-pin remote terminal cover
- Lens mounting mark
- Meter coupling lever
- 45 Lens release button
- Mirror
- Icens mount
- AF-mode button
- ④ Focus-mode selector
- Tripod socket
- O Viewfinder
- Ø Viewfinder eyepiece
- 63 Eyepiece adapter
- Eyepiece shutter lever
- 55 Eyepiece adapter latch
- 6 Deletion button/Formatting memory
- cards button
- Playback button
- 63 Menu button
- 69 Monitor
- Protection button/Picture Control button/
- Help button

- 6) Playback zoom in button
- Thumbnail playback button/Playback
 zoom out button/Flash mode button/ Flash compensation button
- 🚯 OK button
- 60 Network indicator
- 69 Fn3 button/Voice memo button
- 66 Rear control panel
- 6 Release mode button/Two-button reset button
- Image quality button/Image size button
- White balance button/Two-button reset button
- Info button
- Sub-selector
- AF-ON button
- 🔞 Main command dial
- Multi selector
- Memory card slot cover
- 6 Memory card access lamp
- Focus selector lock Card slot cover release button (under
- cover)
- i button
- AF-ON button for vertical shooting
- Multi selector (vertical)
- Microphone (for voice memos)
- Main command dial (vertical)/Speaker
- (8) Live view selector
- 85 Live view button

Viewfinder display



Top control panel



Rear control panel



	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
mage 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)
lmage size (pixels)	 [FX (36 × 24)] selected for image area: 5568 × 3712 (L: 20.7 million), 4176 × 2784 (M 11.6 million), 2784 × 1856 (S: 5.2 million) • [I.2 × (30 × 20)] selected for image area: 4640 × 3088 (L: 14.3 million), 3472 × 2312 (M: 8.0 million), 2320 × 1544 (S: 3.6 million)
	 (DX (24 × 16)] selected for image area: 3648 × 2432 (J: 8.9 million), 2736 × 1824 (M 5.0 million), 1824 × 1216 (S: 2.2 million) • (5:4 (30 × 24)) selected for image area: 4640 × 3712 (L: 17.2 million), 3472 × 2784 (M: 9.7 million), 2320 × 1856 (S: 4.3 million) • [5:1 (24 × 24)] selected for image area: 3712 × 3712 (L: 1.3 8 million), 2784 × 2784 (M: 7. million), 1856 × 1856 (S: 3.4 million) • [16:9 (36 × 20)] selected for image area: 5568 × 3128 (L: 17.4 million), 4176 × 2344 (M: 9.8 million), 2784 × 1560 (S: 4.3 million) Photographs taken while filming movies at a frame size of 3840 × 2160: 3840 × 216
71. (Photographs taken while filming movies at a frame size of 1280 × 720: 1280 × 720
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). JPEG: JPEG-Baseline compliant with fine (approx. 1:4), normal (approx. 1:8) or basic (approx. 1:16) compression; size-priority and optimal-quality compression available - NEF (RAW)+JPEG: Single photograph recorded in beth NEF (RAW) and JPEG format.
Picture Control System	recorded in both NEF (RAW) and JPEG formats Auto, Standard, Neutral, Vivid, Monochrome, Portrait, Landscape, Flat, Creative Picture Controls (Dream, Morning, Pop, Sunday, Somber, Dramatic, Silence, Bleacher Melancholic, Pure, Denim, Toy, Sepia, Blue, Red, Pink, Charcoal, Graphite, Binary, Carbon); selected Picture Control can be modified; storage for custom Picture
Storage media	Controls CFexpress (Type B) and XQD memory cards
Double card slots	The card in Slot 2 can be used for overflow or backup storage, for separate storage of NEF (RAW) and JPEG copies of photos taken at image quality settings of NEF (RAW) + JPEG, or to store separate copies of JPEG photos at different sizes and compression ratios; pictures can be copied between cards
File system	DCF 2.0, Exif 2.31
/iewfinder	Eye-level pentaprism single-lens reflex viewfinder
Frame coverage	 FX (36×24): Approx. 100% horizontal and 100% vertical • 1.2× (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 • 1:1 (24×24): Approx. 95%
Magnification	horizontal and 100% vertical • 16:9 (36×20): Approx. 100% horizontal and 96% vertical Approx. 0.72× (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 Focusing screen	-3 to +1 m ⁻¹ Type B BriteView Clear Matte Mark X 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
	• Types G, E, and D (some restrictions apply to PC lenses) • Other AF NIKKOR lenses (excluding IX NIKKOR lenses and lenses for the F3AF) • AI-P NIKKOR lenses (sing [DX (24 × 16)] image area) • Non-CPU AI lenses (mades A and M only) During viewfinder photography, the electronic rangefinder can be used with lenses that have a maximum aperture of f/S or faster. With lenses that have a maximum aperture of f/S or faster, the electronic rangefinder supports 15 focus points.
Shutter type	Electronically-controlled vertical-travel focal-plane mechanical shutter; electronic front-curtain shutter; electronic shutter
Shutter speed	1/8000 to 30 s (choose from step sizes of 1/3, 1/2, and 1 EV, extendable to 900 s in
	mode M), Bulb; Time; X250
Flash sync speed	mode $ \!\!\!M \!\!\rangle,$ Bulb; Time; X250 $X=1/250$ s; synchronizes with shutter at 1/250 s or slower; auto FP high-speed sync supported
Release modes	mode M), Bulb; Time; X250 X=1/250 s; synchronizes with shutter at 1/250 s or slower; auto FP high-speed sync supported \$ (single frame), CL (continuous low speed), CH (continuous high speed), Q (quiet shutter-release), ⓒ (self-timer), Mur (mirror up)
Release modes Approx. frame advance rate	mode M), Bulb; Time; X250 X=1/250 s; synchronizes with shutter at 1/250 s or slower; auto FP high-speed sync supported S (single frame), CL (continuous low speed), CH (continuous high speed), Q (quiet shutter-release), ⊗ (self-timer), Mur (mirror up) • CL: 1 to 10 fps • CH: 10 to 14 fps • Q: 1 to 5 fps
Release modes Approx. frame advance rate Self-timer	mode M), Bulb; Time; X250 X=1/250 s; synchronizes with shutter at 1/250 s or slower; auto FP high-speed sync supported \$ (single frame), CL (continuous low speed), CH (continuous high speed), Q (quiet shutter-release), ⓒ (self-timer), Mur (mirror up)
Release modes Approx. frame advance rate Self-timer Exposure metering system	mode M), Bulb; Time; X250 X=1/250 s; synchronizes with shutter at 1/250 s or slower; auto FP high-speed sync supported S (single frame), CL (continuous low speed), CH (continuous high speed), Q (quiet shutter-release), S (self-timer), MUP (mirror up) • CL: 1 to 10 fps • CH: 10 to 14 fps • Q: 1 to 5 fps 2 s, 5 s, 10 s, 20 s; 1 to 9 exposures at intervals of 0.5, 1, 2 or 3 s • Viewfinder photography: TTL exposure metering using RGB sensor with approximately 180K (180,000) pixels • Live view: TTL exposure metering performed b image sensor
Release modes Approx. frame advance rate Self-timer Exposure metering system	mode M), Bulb; Time; X250 X=1/250 s; synchronizes with shutter at 1/250 s or slower; auto FP high-speed sync supported S(single frame), CL (continuous low speed), CH (continuous high speed), Q (quiet shutter-release), S) (self-timer), Mur (mirror up) • CL: 1 to 10 fps • CH: 10 to 14 fps • Q: 1 to 5 fps 2 s, 5 s, 10 s, 20 s; 1 to 9 exposures at intervals of 0.5, 1, 2 or 3 s • Viewfinder photography: TTL exposure metering using RGB sensor with approximately 180K (180,000) pixels • Live view: TTL exposure metering performed b image sensor • 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 and AF-S Fisheye NIKKOR 8-15mm
Release modes Approx. frame advance rate Self-timer Exposure metering system	mode M), Bulb; Time; X250 X=1/250 s; synchronizes with shutter at 1/250 s or slower; auto FP high-speed sync supported S (single frame), CL (continuous low speed), CH (continuous high speed), Q (quiet shutter-release), S (self-timer), Mur (mirror up) • CL: 1 to 10 fps • CH: 10 to 14 fps • Q: 1 to 5 fps 2 s, 5 s, 10 s, 20 s; 1 to 9 exposures at intervals of 0.5, 1, 2 or 3 s • Viewfinder photography: TTL exposure metering using RGB sensor with approximately 180K (180,000) pixels • Live view: TTL exposure metering performed b image sensor • 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 and AF-S Fisheye NIKKOR 8-I5mm f/3.5 - 4.5E ED lenses use 12 mm circle) • Spot: Meters circle approximately 4 mm in diameter (about 1.5% of frame) centered on selected focus point (on center focus point when non-CPU or AF-S Fisheye NIKKOR 8-I5mm f/3.5-4.5E ED lenses is used)
Release modes Approx. frame advance rate Self-timer Exposure metering system Exposure metering modes Metering range	 mode M), Bulb; Time; X250 X=1/250 s; synchronizes with shutter at 1/250 s or slower; auto FP high-speed sync supported S (single frame), CL (continuous low speed), CH (continuous high speed), Q (quiet shutter-release), S (self-timer), Mur (mirror up) CL: 1 to 10 fps - CH: 10 to 14 fps • CH: 10 to 5 fps 2 s, 5 s, 10 s, 20 s; 1 to 9 exposures at intervals of 0.5, 1, 2 or 3 s Viewfinder photography: TTL exposure metering using RGB sensor with approximately 180K (180,000) pixels • Live view: TTL exposure metering performed to image sensor Matrix: 3D color matrix metering III (type G, E and D lenses); color matrix metering III (ther CPU lenses); color matrix metering available with non-CPU enses 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 and AF-S Fisheye NIKKOR 8-15mm f/3.5-4.5E ED lenses use 12 mm circle) · Spot: Meters circle approximately 4 mm in diameter (about 1.5% of frame) centered on selected focus point (on center focus point when non-CPU or AF-S Fisheye NIKKOR 8-15mm f/3.5-4.5E ED lens is used) Highlight-weighted: Available with type G, E and D lenses
Release modes Approx. frame advance rate Self-timer Exposure metering system Exposure metering modes Exposure metering modes Metering range ISO 100, (/1.4 lens, 20°C/68°F)	 mode M), Bulb; Time; X250 X=1/250 s; synchronizes with shutter at 1/250 s or slower; auto FP high-speed sync supported S (single frame), CL (continuous low speed), CH (continuous high speed), Q (quiet shutter-release), S (self-timer), Mur (mirror up) CL: 1 to 10 fps · CH: 10 to 14 fps · Q: 1 to 5 fps 2 s, 5 s, 10 s, 20 s; 1 to 9 exposures at intervals of 0.5, 1, 2 or 3 s · Viewfinder photography: TTL exposure metering using RGB sensor with approximately 180K (180,000) pixels · Live view: TTL exposure metering performed b image sensor · 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 and AF-S Fisheye NIKKOR 8-15mm f/3.5-4.5E ED lenses use 12 mm circle) · Spot: Meters circle approximately 4 mm in diameter (doubut 1.5% of frame) centered on selected focus point (on center focus point when non-CPU or AF-S Fisheye NIKKOR 8-15mm f/3.5-4.5E ED lens is used) · Highlight-weighted: Available with type G, E and D lenses
Release modes Approx. frame advance rate Self-timer Exposure metering system Exposure metering modes Exposure metering range ISO 100, 1/1.4 lens, 20°C/68°F) Exposure meter coupling	 mode M), Bulb; Time; X250 X=1/250 s; synchronizes with shutter at 1/250 s or slower; auto FP high-speed sync supported S(single frame), CL (continuous low speed), CH (continuous high speed), Q (quiet shutter-release), S0 (self-timer), Mur (mirror up) CL: 1 to 10 fps * CH: 10 to 14 fps * Q: 1 to 5 fps 2 s, 5 s, 10 s, 20 s; 11 o 9 exposures at intervals of 0.5, 1, 2 or 3 s Viewfinder photography: TTL exposure metering using RGB sensor with approximately 180K (180,000) pixels * Live view: TTL exposure metering performed b image sensor Matrix: 3D color matrix metering 111 (type G, E and D lenses); color matrix metering 111 (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 and AF-S fisheye NIKKOR 8-I5mm f/3.5-4.5E ED lenses use 12 mm circle) * 5pot: Meters circle approximately 4 mm in diameter (about 1.5% of frame) centered on selected focus point (on center focus point when non-CPU or AF-S Fisheye NIKKOR 8-I5mm f/3.5-4.5E ED lens is used) Highlight-weighted: Available with type G, E and D lenses Matrix or center-weighted metering: -3 to +20 EV * Spot metering: 2 to 20 EV Highlight-weighted metering: 0 to 20 EV
Release modes Approx. frame advance rate Self-timer Exposure metering system Exposure metering modes Exposure metering range ISO 100, 1/1.4 lens, 20°C/68°F) Exposure meter coupling	 mode M), Bulb; Time; X250 X=1/250 s; synchronizes with shutter at 1/250 s or slower; auto FP high-speed sync supported S (single frame), CL (continuous low speed), CH (continuous high speed), Q (quiet shutter-release), S (self-timer), Mur (mirror up) CL: 1 to 10 fps - CH: 10 to 14 fps • CH: 10 to 5 fps 2 s, 5 s, 10 s, 20 s; 1 to 9 exposures at intervals of 0.5, 1, 2 or 3 s Viewfinder photography: TTL exposure metering using RGB sensor with approximately 180K (180,000) pixels • Live view: TTL exposure metering performed b image sensor Matrix: 3D color matrix metering III (type G, E and D lenses); color matrix metering III (ther CPU lenses); color matrix metering available with non-CPU enses 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 and AF-S Fisheye NIKKOR 8-15mm f/3.5-4.5E ED lense us 12 mm circle) · Spot: Meters circle approximately 4 mm in diameter (about 1.5% of frame) centered on selected focus point (on center focus point when non-CPU or AF-S Fisheye NIKKOR 8-15mm f/3.5-4.5E ED lens is used) Highlight-weighted metering: 0 to 20 EV Matrix or center-weighted metering: 3 to +20 EV · Spot metering: 2 to 20 EV Highlight-weighted metering: 0 to 20 EV Combined CPU and AI P (programmed auto with flexible program); S (shutter-priority auto); A (aperture-
Release modes Approx. frame advance rate Self-timer Exposure metering system Exposure metering modes Metering range ISO 100, 1/1.4 lens, 20°C/68°F) Exposure meter coupling Exposure modes	 mode M), Bulb; Time; X250 X=1/250 s; synchronizes with shutter at 1/250 s or slower; auto FP high-speed sync supported S (single frame), CL (continuous low speed), CH (continuous high speed), Q (quiet shutter-release), S (self-timer), Mue (mirror up) CL: 1 to 10 fps * CH: 10 to 14 fps * Q: 1 to 5 fps 2 s, 5 s, 10 s, 20 s, 1 to 9 exposures at intervals of 0.5, 1, 2 or 3 s Viewfinder photography: TTL exposure metering using RGB sensor with approximately 180K (180,000) pixels • Live view: TTL exposure metering performed b image sensor 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 and AF-S Fisheye NIKKOR 8-15mm f/3.5-4.5E ED lenses use 12 mm circle) · Spot: Meters circle approximately 4 mm in diameter (about 1.5% of frame) centered on selected focus point (on center focus point when non-CPU or AF-S Fisheye NIKKOR 8-15mm f/3.5-4.5E ED lens is used) Highlight-weighted: Available with type G, E and D lenses Matrix or center-weighted metering: -3 to +20 EV · Spot metering: 2 to 20 EV Linghight-weighted metering: 0 to 20 EV Combined CPU and AI P (programmed auto with flexible program); S (shutter-priority auto); A (aperture-priority auto); M (mnual) -5 to +5 EV (-3 to +3 EV when filming movies) (choose from step sizes of 1/3, 1/2, and the step sizes of 1/3, 1/2, and
Release modes Approx. frame advance rate Self-timer Exposure metering system Exposure metering modes Matering range Iso ton, 1/1.4 lens, 20°C/68°F) Exposure meter coupling Exposure modes	 mode M), Bulb; Time; X250 X=1/250 s; synchronizes with shutter at 1/250 s or slower; auto FP high-speed sync supported S (single frame), CL (continuous low speed), CH (continuous high speed), Q (quiet shutter-release), S (self-timer), MuP (mirror up) CL: 1 to 10 fps - CH: 10 to 14 fps • CH: 10 to 5 fps 2 s, 5 s, 10 s, 20 s; 1 to 9 exposures at intervals of 0.5, 1, 2 or 3 s Viewfinder photography: TTL exposure metering using RGB sensor with approximately 180K (180,000) pixels • Live view: TTL exposure metering performed to image sensor Matrix: 3D color matrix metering III (type G, E and D lenses); color matrix metering III (after CPU lenses); color matrix metering available with non-CPU enses; color matrix metering to 8, 15 or 20 mm, or weighting can be based on average of entrie frame (non-CPU and AF-S Fisheye NIKKOR 8-15mm f/3.5-4.5E ED lense use 12 mm circle) > 5pot: Meters circle approximately 4 mm in diameter (about 1.5% of frame) centered on selected focus point (on center focus point when non-CPU or AF-S Fisheye NIKKOR 8-15mm f/3.5-4.5E ED lense used) Matrix or center-weighted metering: -3 to +20 EV · Spot metering: 2 to 20 EV Highlight-weighted metering: 0 to 20 EV Combined CPU and AI P (programmed auto with flexible program); S (shutter-priority auto); A (aperture-priority auto); M (manual) -5 to +5 EV (-3 to +3 EV when filming movies) (choose from step sizes of 1/3, 1/2, an 1EV)
Release modes Approx. frame advance rate Self-timer Exposure metering system Exposure metering modes Metering range ISO 100, 1/1.4 lens, 20°C/68°F) Exposure meter coupling Xposure modes Exposure compensation Exposure lock	 mode M), Bulb; Time; X250 X=1/250 s; synchronizes with shutter at 1/250 s or slower; auto FP high-speed sync supported S (single frame), CL (continuous low speed), CH (continuous high speed), Q (quiet shutter-release), S (self-timer), Mue (mirror up) CL: 1 to 10 fps * CH: 10 to 14 fps * Q: 1 to 5 fps 2 s, 5 s, 10 s, 20 s, 1 to 9 exposures at intervals of 0.5, 1, 2 or 3 s Viewfinder photography: TTL exposure metering using RGB sensor with approximately 180K (180,000) pixels • Live view: TTL exposure metering performed b image sensor 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 and AF-S Fisheye NIKKOR 8-15mm f/3.5-4.5E ED lenses use 12 mm circle) · Spot: Meters circle approximately 4 mm in diameter (about 1.5% of frame) centered on selected focus point (on center focus point when non-CPU or AF-S Fisheye NIKKOR 8-15mm f/3.5-4.5E ED lens is used) Highlight-weighted: Available with type G, E and D lenses Matrix or center-weighted metering: -3 to +20 EV · Spot metering: 2 to 20 EV Linghight-weighted metering: 0 to 20 EV Combined CPU and AI P (programmed auto with flexible program); S (shutter-priority auto); A (aperture-priority auto); M (mnual) -5 to +5 EV (-3 to +3 EV when filming movies) (choose from step sizes of 1/3, 1/2, and the step sizes of 1/3, 1/2, and
Release modes Approx. frame advance rate Self-timer Exposure metering system Exposure metering modes Metering range ISO 100, //.4 lens, 20°C/68°F) Exposure meter coupling Exposure modes Exposure compensation Exposure lock SO sensitivity	 mode M), Bulb; Time; X250 X=1/250 s; synchronizes with shutter at 1/250 s or slower; auto FP high-speed sync supported S (single frame), CL (continuous low speed), CH (continuous high speed), Q (quiet shutter-release), S (self-timer), Mur (mirror up) CL: 1 to 10 fps · CH: 10 to 14 fps · CH (to 5 fps 2 s, 5 s, 10 s, 20 s; 1 to 9 exposures at intervals of 0.5, 1, 2 or 3 s Viewfinder photography: TTL exposure metering using RGB sensor with approximately 180K (180,000) pixels · Live view: TTL exposure metering performed to image sensor Matrix: 3D color matrix metering III (type G, E and D lenses); color matrix metering 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 and AF-5 Fisheye NIKKOR 8-15mm f/3.5-4.5E ED lenses use 12 mm circle) · Spot: Meters circle approximately 4 mm in diameter (about 1.5% of frame) centered on selected focus point (on center focus point when non-CPU or AF-5 Fisheye NIKKOR 8-15mm f/3.5-4.5E ED lens is used) Highlight-weighted: Available with type G, E and D lenses Matrix or center-weighted metering: -3 to +20 EV · Spot metering: 2 to 20 EV Highlight-weighted: Available program); S (shutter-priority auto); A (aperture-priority auto); M (manual) -5 to +5 EV (-3 to +3 EV when filming movies) (choose from step sizes of 1/3, 1/2, an 1EV) Luminosity locked at detected value ISO 100 to 102400 (choose from step sizes of 1/3, 1/2, and 1 EV); can also be set to approx. 0.3, 0.5, 0.7, r 1 EV (ISO 3280000 equivalent) below ISO 100 to 102400; auto ISO
Release modes Approx. frame advance rate Self-timer Exposure metering system Exposure metering modes Metering range (SO 100, 1/1.4 lens, 20°C/68°F) Exposure meter coupling Exposure modes Exposure compensation Exposure lock SO sensitivity Recommended Exposure Index)	 mode M), Bulb; Time; X250 X=1/250 s; synchronizes with shutter at 1/250 s or slower; auto FP high-speed sync supported S (single frame), CL (continuous low speed), CH (continuous high speed), Q (quiet shutter-release), S (self-timer), Mur (mirror up) CL: 1 to 10 fps · CH: 10 to 14 fps · CH: 10 to 5 fps 2 s, 5 s, 10 s, 20 s; 1 to 9 exposures at intervals of 0.5, 1, 2 or 3 s · Viewfinder photography: TTL exposure metering using RGB sensor with approximately 180K (180,000) pixels · Live view: TTL exposure metering performed b image sensor · 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 and AF-S Fisheye NIKKOR 8-15mm f/3.5-4.5E ED lenses use 12 mm circle) · Spot: Meters circle approximately 4 mm in diameter (about 1.5% of frame) centered on selected focus point (on center focus point when non-CPU or AF-S Fisheye NIKKOR 8-15mm f/3.5-4.5E ED lens is used) · Highlight-weighted metering: -3 to +20 EV · Spot metering: 2 to 20 EV · Highlight-weighted metering: 0 to 20 EV Combined CPU and AI P (programmed auto with flexible program); S (shutter-priority auto); A (aperture-priority auto); M (annual) -5 to +5 EV (-3 to +3 EV when filming movies) (choose from step sizes of 1/3, 1/2, and 1 EV); can also be set to approx. 0.3, 0.5, 0.7, 1, 2, 3, 4, or 5 EV (SO 3280000 equivalent) above ISO 100 dor to approx. 0.3, 0.5, 0.7, 1, 2, 3, 4, or 5 EV (SO 3280000 equivalent) above ISO 102400; auto ISO
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Self-timer Exposure metering system	 mode M), Bulb; Time; X250 X=1/250 s; synchronizes with shutter at 1/250 s or slower; auto FP high-speed sync supported S (single frame), CL (continuous low speed), CH (continuous high speed), Q (quiet shutter-release), S (self-timer), Mur (mirror up) CL: 1 to 10 fps - CH: 10 to 14 fps • CH: 10 to 5 fps 2 s, 5 s, 10 s, 20 s; 1 to 9 exposures at intervals of 0.5, 1, 2 or 3 s Viewfinder photography: TTL exposure metering using RGB sensor with approximately 180K (180,000) pixels • Live view: TTL exposure metering performed to image sensor Matrix: 3D color matrix metering III (type G, E and D lenses); color matrix metering III (ther CPU lenses); color matrix metering available with non-CPU enses 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 and AF-S Fisheye NIKKOR 8-15mm f/3.5-4.5E ED lenses use 12 mm circle) · Spot: Meters circle approximately 4 mm in diameter (about 1.5% of frame) centered on selected focus point (on center focus point when non-CPU or AF-S Fisheye NIKKOR 8-15mm f/3.5-4.5E ED lens is used) Highlight-weighted metering: 0 to 20 EV Combined CPU and AI P (programmed auta with flexible program); S (shutter-priority auto); A (aperture-priority auto); M (manual) -5 to +5 EV (-3 to +3 EV when filming movies) (choose from step sizes of 1/3, 1/2, an 1EV) Luminosity locked at detected value ISO 100 to 102400 (choose from step sizes of 1/3, 1/2, and 1EV); can also be set to approx. 0.3, 0.5, 0.7, or 1 EV (ISO 3280000 equivalent) below ISO 100 or to approx. 0.3, 0.5, 0.7, n 1 EV (ISO 3280000 equivalent) below ISO 100 at o approx. 0.3, 0.5, 0.7, n 1 EV (ISO 3280000 equivalent) below ISO 100 or to approx. 0.3, 0.5, 0.7, n 1 EV (ISO 3280000 equivalent) below ISO 100 or to approx. 0.3, 0.5, 0.7, n 1 EV (ISO 3280000 equivalent) below

AF-area modes	Viewfinder photography: Single-point AF; 9-, 25-, 49- or 105-point dynamic-area AF AP tracking group area AF: (C)) group group AF: (C)) group group AF: (C))
	3D-tracking; group-area AF; group-area AF (C1); group-area AF (C2); auto-area AF • Live view: Face-detection AF, wide-area AF, normal-area AF, subject-tracking AF
Focus lock	Focus can be locked by pressing shutter-release button halfway (single-servo AF/AF
Flash control	S) or by pressing center of sub-selector TTL flash control using RGB sensor with approx. 180K pixels; i-TTL flash control; 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, red-eye reduction, slow sync, red-eye reduction with slow sync, rear-curtain sync, off
Flash compensation Flash-ready indicator	 -3 to +1 EV (choose from step sizes of 1/3, 1/2 and 1 EV) 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	i-TTL flash control, radio-controlled Advanced Wireless Lighting, optical Advanced
Lighting System (CLS)	Wireless Lighting, modeling illumination, FV lock, color information communication, auto FP high-speed sync, AF-assist for multi-area AF (viewfinder photography), unified flash control
Sync terminal	ISO 519 sync terminal with locking thread
White balance	Auto (3 types), natural light auto, direct sunlight, cloudy, shade, incandescent, fluorescent (7 types), flash, choose color temperature (2500 K to 10000 K), preset manual (up to 6 values can be stored, spot white balance measurement available
D 1 1 1	during live view), all with fine-tuning
Bracketing types Live view modes	Exposure, flash, white balance and ADL (photo live view), 🕱 (movie live view)
Movie metering system	TL metering using camera image sensor
Movie metering modes	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, 1920 × 1080 crop; 60p, 50p, 30p, 25p, 24p Actual frame rates for 60p, 50p, 30p, 25p and 24p are 5994, 50, 2997, 25 and 23976 fps respectively quality selection available at all sizes except 3840 × 2160, of which quality is fixed at * (high)
File format	MOV, MP4
Video compression Audio recording format	H.264/MPEG-4 Advanced Video Coding Linear PCM (for movies recorded in WAV format), AAC (for movies recorded in MP4 format)
Audio recording device Movie ISO sensitivity (Recommended Exposure Index)	Built-in stereo or external microphone with attenuator option; sensitivity adjustable • Exposure mode M: Manual selection (ISO 100 to 102400; choose from step sizes of 1/3, 1/2, and 1 EV) with additional options available equivalent to approx. 0.3, 0.5, 0. 1, 2, 3, 4, or 5 EV (ISO 3280000 equivalent) above ISO 102400; auto ISO sensitivity
	control (ISO 100 to Hi 5) available with selectable upper limit • Exposure modes P , S , and A : Auto ISO sensitivity control (ISO 100 to Hi 5) with selectable upper limit
Movie Active D-Lighting	Can be selected from extra high, high, normal, low or off
Other movie options	Time-lapse movie recording, electronic vibration reduction, time codes
Monitor	8-cm/3.2-in., approx. 235%-dot (XGA) tilting TFT touch-sensitive LCD with 170° viewing angle, approx.100% frame coverage, 11-level manual brightness adjustment, and color balance control
Playback	Full-frame and thumbnail (4, 9, or 72 images) playback with playback zoom, playbac
	zoom cropping, movie playback, photo and/or movie slide shows, histogram display highlights, photo information, location data display, picture rating, auto image rotation, index marking, voice memo input and playback, and IPTC information embedding and display
USB	Type C USB connector (SuperSpeed USB); connection to built-in USB port is
HDMI output	recommended 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	Built-in (can be used with MC-30A/MC-36A remote cords and other optional accessories)
Ethernet	RI-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 • Port: 1000BASE-T/100BASE-TX/10BASE-T (AUTO-MDIX) Maximum logical data rates
Peripheral connector	according to IEEE standard; actual rates may differ. For WT-6/A/B/C
Wi-Fi	 Standards: IEEE 802.11b/g/n/a/ac (Europe, U.S.A., Canada, Mexico), IEEE 802.11b/ g/n/a (other countries in the Americas) • Operating frequency: 2412 to 2462 MHz (channel 11) and 5180 to 5825 MHz (U.S.A., Canada, Mexico), 2412 to 2462 MHz (channel 11) and 5180 to 5805 MHz (other countries in the Americas), 2412 to 2462 MHz (channel 11) and 5745 to 5805 MHz (Georgia), 2412 to 2462 MHz (channel 11) and 5180 to 5320 MHz (other European countries) • Maximum output power (EIRP): 2.4 GHz band: 7.0 dBm, 5 GHz band: 9.1 dBm (Georgia), 5 GHz band: 12.1 dBm (othe countries) • Authentication: Open system, WPA2-PSK
Bluetooth	Communication protocols: Bluetooth Specification Version 4.2 • Operating frequency: 2402 to 2480 MHz (Bluetooth), 2402 to 2480 MHz (Bluetooth Low Energy
Range (line of sight)	 Maximum output power (EIRP): Bluetoath: 1.5 dBm, Bluetoath Law Energy: 0 dBm Approximately 10 m/32 ft without interference; range may vary with signal strength and presence or absence of obstacles.
Supported GNS systems	GPS (USA), GLONASS (Russia), QZSS (Japan)
Data acquired	Latitude, longitude, altitude, UTC (Universal Coordinated Time)
Clock synchronization Track logs	Camera clock can be set to time acquired via GNSS NMEA-compliant
Log interval	15 s, 30 s, 1 min., 2 min., 5 min.
Maximum log recording time	
Log deletion	Supported
Battery	One EN-ELI8c Rechargeable Li-ion Battery; EN-ELI8b/EN-ELI8a/EN-ELI8 batteries can also be used. Note, however, that fewer pictures can be taken on a single charge with an EN-ELI8 than with an EN-ELI8c/EN-ELI8b.
AC adapter	EH-6c AC Adapter; requires EP-6 Power Connector (available separately)
Tripod socket	1/4 in. (ISO 1222)
Dimensions (W × H × D) Weight	Approx. 160 × 163 × 92 mm/6.3 × 6.5 × 3.7 in. Approx. 1450 g/3 lb 3.2 oz with battery and two CFexpress memory cards but without body cap and accessory shoe cover; approx. 1270 g/2 lb 12.8 oz (camera
Operating and	body only) Temperature: 0 to 40° C (22 to 104° Er humidity: 85% or less (no condeposition)
Operating environment Supplied accessories	Temperature: 0 to 40°C/32 to 104°F; humidity: 85% or less (no condensation) EN-EL18c Rechargeable Li-ion Battery, MH-26a Battery Charger, HDMI/USB Cable
Supplied accessories (may differ by country or area)	EN-ELISC Rechargeable Li-Ion Battery, MH-20a Battery Charger, HDMI/USB Cable Clip, UC-E24 USB Cable, AN-DC22 Strap, BF-1B Body Cap, BS-3 Accessory Shoe Cove
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NG TO ENSURE CORRECT USAGE, READ MANUALS CAREFULLY BEFORE USING YOUR EQUIPMENT.

