LEAVE NOTHING TO CHANCE

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

The D6 sets a new benchmark for AF performance. Its newly designed Multi-CAM 37K autofocus sensor module features 105 focus points—a cross-type, all selectable—which allows users to focus where they want without adjusting their composition. A triple-sensor arrangement for each focus point and the new focus point layout reduce non-AF sensitive areas and achieve approx. 1.6x 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 and the others to -4 EV, making autofocus possible even in dark situations or with low-contrast subjects.

*D1: 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.

*2 At ISO 100, 20 °C/68 °F.

Dedicated new AF engine processes approx. 1.6x 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. 1.6x 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. 14fps 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.

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 image processing 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.

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 group-area AF HL and VL 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 group-area AF 11 x 3 or 15 x 3 to keep focusing on the player moving laterally. In critical situations, this becomes a powerful tool for sports shooters.

* Depending on lens, aperture, etc.

*1 Horizontal Line

*2 Vertical Line

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

![Custom Group-Area AF Mode Variations](image)

Advanced Scene Recognition System improved to further enhance AF performance

![Advanced Scene Recognition System](image)
Ability to set AF starting point expands the potential of auto-area AF

The D6’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.

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 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

1. 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
3. (A) is recorded as the AF tuning value

“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 single point 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.
Approx. 14-fps* 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.

*1 With Full HD selected for image quality.
*2 With 4K UHD selected for image quality.

Note: AF is locked on the first frame while AE tracks in this mode.
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 approximate 200 m/656.1 ft with the IEEE 802.11ac standard. Meanwhile, you can keep shooting and editing while the images are transmitted.

SnapBridge for easy image transfers to smart devices

You can transfer images to your smart device 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.

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.

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.

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.

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

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, movie 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.

Transfer list

To be sent

Image being sent

0004 0003 0002 0001

During automatic transfer

Possible to make the 0020 image cut into the top of the waiting list

Simultaneous deletion of two identical images with a single operation

• Lens: AF-S NIKKOR 120-300mm f/2.8E FL ED SR VR • Exposure: [M] mode, 1/2000 s, f/2.8 • White balance: Color temperature (3230K) • Sensitivity: ISO 2500 • Picture Control: Standard © Matthias Hangst

© Ryan Taylor
The D6’s EXPEED 6 image-processing engine reproduces clear skin tones without any colour 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.

Improved auto white balance for better stability and clear skin tones

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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 image-processing 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.

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.

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.

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 finder, as it requires a much smaller area (3×3 focus points) to acquire grey/white information. This means you don’t have to switch lenses to acquire preset manual data, letting you keep shooting smoothly.

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 post-production.

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

The D6 is truly dependable when it comes to heavy professional demands in tough environments. It possesses an extremely robust and durable body, thanks to the light, strong magnesium alloy on the covers and body, as well as highly durable Kevlar fiber shutter curtains. Effective sealing and the uneven structure of joined sections ensure Nikon’s highest resistance level to dust and water droplets. The covers and body, as well as highly durable Kevlar fiber shutter curtains, are designed to withstand the demands in tough environments. It possesses an extremely robust and durable body, thanks to the light, strong magnesium alloy on the covers and body, as well as highly durable Kevlar fiber shutter curtains. Effective sealing and the uneven structure of joined sections ensure Nikon’s highest resistance level to dust and water droplets. The covers and body, as well as highly durable Kevlar fiber shutter curtains, are designed to withstand the demands in tough environments.

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.

Speedier camera setting changes via customizable I button

The I button gives you a shortcut to a side 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 66 functions*. In addition, while 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.

Support 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.

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.

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 up to 60p, with a standard ISO range from 100 to 102400. It’s now possible to record in both XMP 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 videos, without having to stop recording.

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

Dependably long battery life

Combined with the D6’s exceptional energy efficiency, the EN-EL18c Rechargeable Li-ion Battery enables approx. 3580 shots per charge in single-frame release mode*, or approx. 2050 shots in continuous-release mode*, and filming for approx. 105 min**.

* Based on CIPA Standards.
** Under Nikon’s own test conditions.

IPTC metadata compatible with XMP

Streamline your workflow. With the D6, IPTC metadata is now compatible with XMP. This allows you to confirm and edit metadata in Photo Mechanic®,

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

Newly equipped built-in GPS providing precise mapping and synchronizing for photojournalists and news agencies.

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

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

Interval timer for automatic, in-camera time-lapse creation, in 4K, UHD or Full-HD.

More flexible shutter speed setting extendable up to 900 s

The D6 extends the maximum shutter speed setting from 30 seconds to 900 seconds. Shoot extremely long exposures with a single press of the shutter release button.

*2 Under Nikon’s own test conditions.
*1 Based on CIPA Standards.
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 D3s, your NIKKOR F lenses reveal unique emotions, sharp and clear from edge to edge.

### WIDE-ANGLE ZOOM
- 14-24mm f/2.8G ED
- 20mm f/1.8G ED
- 8-15mm f/3.5-4.5E ED

### NORMAL ZOOM
- 58mm f/1.4G
- 24mm f/1.8G ED
- 16-35mm f/4G ED VR
- 18-35mm f/3.5-4.5G ED

### FIXED FOCAL LENGTH
- 105mm f/2.8G IF-ED
- 85mm f/1.4G
- 50mm f/1.4G

### TELEPHOTO
- 70-200mm f/2.8E FL ED VR
- 300mm f/4E PF ED VR
- 200-500mm f/5.6E ED VR
- 800mm f/5.6E FL ED VR
- 120-300mm f/2.8E FL ED SR VR
- 500mm f/4E FL ED VR
- 600mm f/4E FL ED VR
- 105mm f/2.8G IF-ED

### SPECIAL PURPOSE
- AF-S NIKKOR 120-300mm f/2.8E FL ED SR VR
- AF-S Fisheye NIKKOR 10-17mm f/3.5-5.6E ED
- AF-S NIKKOR 180-360mm f/3.5-5.6E ED

### TELEPHOTO
- 120-300mm f/2.8E FL ED SR VR
- 80-400mm f/4.5-5.6G ED VR
- 200-500mm f/5.6E ED VR
- 85mm f/1.8G
- 17-35mm f/2.8D IF-ED

### NORMAL ZOOM
- 24-120mm f/4G ED VR
- 18-35mm f/3.5-4.5G ED
- 60mm f/2.8G ED
- 50mm f/1.4G

### TELEPHOTO
- 58mm f/1.4G
- 70-200mm f/2.8E FL ED VR
- 120-300mm f/2.8E FL ED SR VR
- 600mm f/4E FL ED VR
- 28mm f/1.8G

### SPECIAL PURPOSE
- AF-S NIKKOR 120-300mm f/2.8E FL ED SR VR
- AF-S Zoom-Nikkor 70-200mm f/4G ED VR
- AF-S Zoom-Nikkor 70-200mm f/4G ED VR
- AF-S Zoom-Nikkor 500mm f/4E FL ED VR
- AF-S Zoom-Nikkor 800mm f/5.6E FL ED VR
- AF-S Zoom-Nikkor 200-500mm f/5.6E ED VR
- AF-S Zoom-Nikkor 105mm f/2.8G IF-ED

* Please refer to Nikon website for the full range of NIKKOR F lenses.

** Apple devices with iOS 14 or later / Android devices with Android 10 or later / Windows 10 or later / macOS 10.15 or later. 

†† A variety of accessories can be downloaded from the application store of each smart device (free).

††† Can be downloaded from Nikon websites (free).

* Support and services are provided at the NPS service centres listed on the NPS Global website.
### Specifications

**Type of camera:** Single-lens reflex digital camera  
**Frame coverage:**  
**Image sensor:**  
**Total pixels:** 1.33 million  
**Effective angle of view:**  
**Exposure compensation:**  
**Release modes:**  
**Double card slots:**  
**File system:**  
**Type of camera:** Single-lens reflex digital camera  
**Lens mount:** Nikkor F mount (with AF coupling and AF contacts)  
**Exposure metering modes:**  
**Shutter speed:**  
**Focusing screen:**  
**AF area modes:**  
**AF-assist infrared illuminator:** Infrared illuminator can be activated automatically according to subject status; full-time AF (AF-F);  
**Focus lock:**  
**Flash control:**  
**Flash modes:**  
**Flash synchronization:**  
**Audio recording format:** linear PCM (for movies recorded in MOV format), AAC (for movies recorded in MP4 format)  
**Audio output:** Stereo mini-pin jack (3.5-mm diameter; plug-in power supported)  
**Audio input:**  
**HDMI output:**  
**Dimensions (W × H × D):**  
**Weight:** Approx. 1670 g/3 lb 10.6 oz (camera body only)  
**Power source:**  
**Battery:**  

### Description

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**Specifications and equipment are subject to change without notice or obligation on the part of the manufacturer. March 2020 © 2020 Nikon Corporation**