Nikon Inc. is the official US supplier for high-quality Nikkor lenses. You can confirm that Nikkor lens has been officially imported by checking the following:

* The serial numbered lens is supplied with an Official Nikon Inc. One Year Limited Warranty Document, and:
* Some Nikkor lenses will have additional identification, including either the letters “US” engraved next to the serial number or a special sticker affixed to the product.

If the Nikkor lens that you purchased in the United States does not include the Official Nikon Inc. One Year Limited Warranty Document, it’s not an officially imported Nikon product, and it will not be entitled to Nikon Inc. Repair Service.

The warranty document must be shown when you send your product for warranty repair, and also for subsequent repair. If the Nikon Inc. product you purchase does not include the official, original Nikon Inc. One Year Limited Warranty Document, even if the vendor claims that it has a US warranty, the product will not be entitled to Nikon Inc. service support.

Special information about Nikkor AF and IX lenses: exclusively for these two lens types, in addition to the Official Nikon Inc. One Year Limited Warranty Document, each lens also includes an envelope, titled “5 Years of Protection”. The envelope contains an official Nikon application that entitles the lens’ owner to an additional 4 years coverage (under the same terms as the one year limited warranty) for their purchase. This application, when properly submitted to Nikon Inc. will register the product for an additional 4 years coverage. You get a total of 5 years’ coverage. The ESC is provided from Nikon Inc. to the retail purchaser at no additional charge and is an important value-added component of your Nikkor lens purchase. Refer to the application for details about submission.

We urge you to insist that your Nikon purchase be an authentic officially imported Nikon Inc. product. Only with the proper warranty documentation can you be assured that your product will be entitled to the quality care and service that is available from Nikon Inc.’s highly trained and officially supplied Service Department.

Specifications and designs are subject to change without any notice or obligation on the part of the manufacturer.
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When it comes to choosing photographic equipment, perhaps the most important decision a photographer faces is which lens system to use. For the majority of professional photographers, that choice is simple: Nikkor. Why? Because Nikkor lenses offer unrivaled clarity, sharpness, focusing accuracy, range and reliability.

The reasons for this are many, not the least of which is Nikon's total commitment to controlling every aspect of lens manufacturing. By selecting only the finest raw materials and employing the most advanced processing and design techniques, Nikon produces the precision-crafted lens elements that help you take the world's greatest pictures.

This no-compromise attitude toward ultrahigh-tech manufacturing extends to performance. For each Nikkor lens is designed to function seamlessly with Nikon SLRs in a synergy of purpose that is simply unparalleled. This is exemplified most clearly in the legendary Nikon F mount. For even the most advanced Nikkor lenses incorporate this standard that has won over decades of devotees for its consistency and reliability. This design also ensures that when we release revolutionary cameras like the Nikon F6, F5 and D2 series with features such as 3D Color Matrix Metering and i-TTL Balanced Fill-Flash, you can be sure to find an array of Nikkor lenses that can handle these advances too.

Once you see for yourself how smoothly the Nikon-Nikkor combination works, chances are you'll do what most of the world's professional photographers do — when you reach for a lens, it'll be a Nikkor.

Nikkor Lenses — Seamless Performance, Absolute Precision, and Total Reliability
Nikon began producing lenses under the Nikkor name in 1933, and since then more than 36 million lenses have been sold worldwide. Throughout the years, our unwavering commitment to quality and innovation has yielded many breakthroughs in the photographic industry. For example, Nikon introduced the Nikkor Auto 24mm f/2.8 incorporating Nikon-pioneered Close-Range Correction (CRC) system in 1967, and started production of ap瑟helitical lenses in 1968. In addition, Nikon developed ED (Extra-low Dispersion) glass which made its first appearance in the 300mm f/2.8 ED Nikkor telephoto in 1972, and is now incorporated in many other Nikkors. And in 2003, Nikon produced the AF-S DX Zoom-Nikkor 12-24mm f/4G ED-IF, as the first lens optimized for Nikon DX Format digital SLRs in the new DX Nikkor series.

These are just a few of the many achievements in lens design that exemplify Nikon’s position as the world’s preeminent manufacturer of professional photographic equipment. The following offers in-depth technical information that will help you understand more fully that Nikkor lenses provide superior performance and are thus the best match for your Nikon SLR.

A history of exceptional performance — Nikkor lenses

Where it all begins — Nikon glassworks

To make the finest lens elements, you must begin with the finest optical glass. To ensure this, Nikon does what few makers can — it manufactures the glass for nearly all Nikkor lenses in its own glassworks. This means our lens designers have over 200 types of glass to choose from, giving them an exceptional variety from which to select just the right optical glass for their requirements.

Moreover, when these requirements demand lens properties not yet available, the glass technicians work to find a solution — which often results in engineering new types of glass. This is precisely how Nikon developed Extra-low Dispersion (ED) glass in 1972 — to meet design demands for super telephoto Nikkors.

Lens construction

The peerless craftsmanship of Nikkor lens elements is matched by the structures that house them. Only the best materials are used for the mechanical construction of each lens. Fine metal alloys and polycarbonates make up the helicoids in some lenses. Inner and outer sleeves are tooled with maximum precision, resulting in the smooth lens movement that characterizes the Nikkor lens. The lens mount, too, features similar materials.

Computers and lens design

Nikon designers employ the latest computers and Nikon-developed software to determine the optical design of each lens. Using this data together with their accumulated experience, they create the finest SLR lenses available.

Computer-aided design simulation is also used to ensure the utmost precision in the optical and mechanical parts of each lens as well as the quality of the lens assembly process. In this way, computers can identify problematic areas thus leading to improved overall lens design and ensuring the superior performance of the finished product.

Electronics — microcomputer innovation for precise performance

The recent advances in the computer industry play an integral role in the makeup as well as design of Nikon lenses. For in addition to superior optics, each AF Nikkor features a built-in microcomputer. This microcomputer works with the Nikon AF camera computer system to provide information that ensures fast autofocus, Matrix exposure metering, and ensuring the superior performance of the finished product.

Optical design using computer

Balanced Fill-Flash, and other Nikon innovations in SLR performance.

Only Nikkor lenses are designed for today’s and tomorrow’s Nikon SLR cameras, based on information and insight available exclusively within Nikon — including autofocus parameters. No other lens maker can provide this type of assurance.

The Nikon F lens mount — a tradition of continuity and forward compatibility

The debut of the original Nikon F also marked the introduction of what is perhaps its most significant technological innovation — the Nikon F lens mount. This legendary design ensures that your Nikon camera is compatible with most Nikkor lenses and that your Nikon equipment can accommodate future system advances.

Moreover, the F mount achieves something no other design can — it is compatible with both types of lens drive systems — the conventional mechanical AF coupling design for wideangle and standard zooms, and Nikon’s exclusive SWM (Silent Wave Motor) system featured in the most advanced supertelephoto Nikkors. This is just one example why the Nikon F mount continues to be an integral part of Nikon camera equipment design.

Reliability — lenses made to withstand the toughest conditions

Each Nikkor lens is manufactured to meet the most stringent requirements in the industry. The optical glass is scrutinized to assure it is free of imperfections, whereupon it is then remelted, cast, ground, polished and hard-coated to emerge as one of the world’s finest lens elements. After being precisely mounted in lens barrels, the lens elements and their assemblies undergo a battery of tests and inspections, including vibration and temperature-resistance analysis. One of these tests concerns the lens’ Optical Transfer Function (OTF), which evaluates the resolving power and contrast of the lens. To perform this test, Nikon developed the exclusive Nikon OTF Analyser (NOA).

In addition to these uncompromising tests, Nikon technicians further guarantee the performance of the final product by going over every detail of every finished lens. They check and assure the mechanical construction, electronics, AF movement, zoom and aperture mechanisms, and lens resolution.

All of which ensures that the lens does what it’s supposed to — provide the outstanding optical performance and reliability that make Nikkor lenses the pro’s choice the world over.
**Designed to be the best lenses in the world**

Nikon employs three types of aspherical lens elements. Precision-ground aspherical lens elements are the finest expression of lens crafting, granting extremely rigorous production standards. Hybrid lenses are made of a special plastic moulded onto optical glass. Moulded glass aspherical lens elements are manufactured by moulding a unique type of optical glass using a special metal die.

**Nikon Crystal Coat**

Nikon Crystal Coat is an anti-reflective coating that original in the development of NSP series (Nikkor Step and Repeat) semiconductor manufacturing devices. It virtually eliminates internal lens element reflections across a wide range of wavelengths, and is particularly effective in reducing ghost and flare to a negligible level. Nikon Super Integrated Coating achieves a number of objectives, including mini

**Nikon Super Integrated Coating ensures exceptional performance**

To enhance the performance of the optical lens elements, Nikon employs an exclusive multi-layer lens coating that reduces ghost and flare to a negligible level. Nikon Super Integrated Coating achieves a number of objectives, including mini
The newest addition to Nikon’s world-class Nikkor lens lineup, the DX Nikkor series was developed in response to the demands of professional and advanced amateur digital SLR users for higher optical performance. The popularity of Nikon’s digital SLRs has risen significantly, and Nikon has answered with the kind of innovation you’d expect from a world leader in optical technology.

Nikon created the DX Nikkor series to provide Nikon DX-Format digital SLR owners with greater wideangle covering power. Mounting a 35mm format 14mm wideangle lens, for example, onto a digital camera would result in a picture angle equivalent to that of a 21mm lens — negating the benefit of wideangle coverage. DX Nikkor, the first interchangeable lenses designed specifically for use with Nikon DX-Format digital SLRs, give owners wideangle shooting capability in a compact, lightweight package.

Nikon offers seven DX Nikkor lenses—various Zoom-Nikkor lenses and the 10.5mm Fisheye—to cover a range of shooting situations. In addition to lenses with popular zoom ranges, the lineup includes newer zoom lenses with telephoto ranges that extend up to 200mm (equivalent to 300mm in 35mm format). The 18-200mm lens offers an astonishing 11.1x zoom power.

Note: We do not recommend use of DX Nikkor lenses with 25mm (135) or IX240 format cameras.
AF-S DX Zoom-Nikkor 18-70mm f/3.5-4.5G ED-IF* (3.8x)

High-power wideangle zoom lens exclusively for use with Nikon DX-format digital SLRs
- Aspherical lens and ED glass elements
- Built-in SWM for ultra-fast, ultra-quiet operation
- M/A mode for quick switching between autofocus and manual operation
- Lightweight and compact design

AF-S DX Zoom-Nikkor 18-135mm f/3.5-5.6G ED-IF* (7.5x)

A high-power zoom lens with SWM for exclusive use with Nikon DX-format digital SLRs
- Built-in SWM for ultra-fast, ultra-quiet operation
- Aspherical lenses and ED glass element
- Seven-blade rounded diaphragm
- High-power 7.5x zoom lens

AF-S VR DX Zoom-Nikkor 18-200mm f/3.5-5.6G ED-IF* (11.1x)

High-power zoom lens with VR II for exclusive use with Nikon DX-format digital SLRs
- VR II offers the equivalent of a shutter speed 4 stops faster**
- Two ED glass elements
- Built-in SWM for ultra-fast, ultra-quiet operation
- M/A mode for quick switching between autofocus and manual operation
- Seven-blade rounded diaphragm

AF-S DX Zoom-Nikkor 55-200mm f/4-5.6G ED* (3.6x)

Affordable high-power zoom lens for exclusive use with Nikon DX-format digital SLRs
- Ultracompact and light (9.0 oz.)
- Two ED glass elements
- Newly developed, compact SWM
- Nine-blade rounded diaphragm

** The G-type Nikkor has no aperture ring; aperture should be selected from camera body.

The G-type Nikkor has no aperture ring; aperture should be selected from camera body.

Lens construction: 16 elements in 12 groups
Closed focusing: 0.45m/1.5 ft. Picture angle with Nikon DX Format: 35mm (135) format equivalent to 27-302.5mm
Filter attachment size: 67mm Hood: HB-32 (provided) Dimensions: 2.9 x 3.0 in. Weight: 13.6 oz.

Lens construction: 15 elements in 13 groups
Closed focusing: 0.38m/1.2 ft. Picture angle with Nikon DX Format: 35mm (135) format equivalent to 27-300mm
Filter attachment size: 67mm Hood: HB-32 (provided) Dimensions: 3.0 x 3.8 in. Weight: 13.8 oz.

Lens construction: 15 elements in 13 groups
Closed focusing: 0.5m/1.6 ft. Picture angle with Nikon DX Format: 35mm (135) format equivalent to 27-105mm
Filter attachment size: 52mm Hood: HB-34 (provided) Dimensions: 2.7 x 3.1 in. Weight: 9.0 oz.
Nikon offers over a dozen AF Zoom-Nikkors all of which are outstanding. The information below will give you a better idea of which lenses are most suitable for you.

The most obvious starting point when considering a zoom lens is focal length, for that will determine your range of usage. Need a great standard zoom for the wideangle to medium telephoto range? For greater wideangle coverage, the 17-35mm and 18-35mm are favourites of landscape photographers and others who need to shoot expansive scenes. Then there are the more powerful lenses like the 70-300mm or 80-400mm. These are ideal for sports and action photography, and for taking shots of people from a distance. And for truly high-power zoom needs, the 24-120mm lens offers 5x ratio. Not only is this lens versatile, this is compact as well.

The speed, or maximum aperture that a lens offers is another crucial factor. There are several AF Zoom-Nikkors in the wide, medium and powerful telephoto range with a fast f/2.8 that are sure to fit your demands. The AF-S 17-35mm f/2.8D ED-IF, AF-S 28-70mm f/2.8D ED-IF and AF-S VR 70-200mm f/2.8G ED-IF are all perfectly suited for hand-held shooting in dim light.

Macro focusing is another feature that most AF Zoom-Nikkors offer. Those lenses with the highest reproduction ratios are the 24-85mm 1:2.8-4D IF (1:2), and the VR 70-200mm 1:2.8G ED-IF (1:3.7).
AF-S VR Zoom-Nikkor 24-120mm f/3.5-5.6G ED-IF (5.0x)

- High-power wideangle zoom lens featuring SWM and VR system
  - SWM for ultra-fast, ultra-quiet AF
  - VR operation offers the equivalent of using a shutter speed 3 stops faster (at 120mm)**
  - High-power 5x zoom lens
  - Two aspherical lenses and two ED glass elements

** As determined by Nikon performance tests.

Lens construction: 15 elements in 13 groups
Closest focusing: 0.5m/1.6 ft.
Picture angle with Nikon DX Format: 35mm (135) format equivalent to 36-180mm
Filter attachment size: 72mm
Hood: HB-25 (provided)
Dimensions: 3.0 x 3.7 in. Weight: 20.3 oz.

AF-S Zoom-Nikkor 28-70mm f/2.8D ED-IF (2.5x) A high-performance standard zoom lens with SWM

- Two ED glass elements and moulded glass aspherical lens element
- Superior optical performance
- M/A mode for quick switching between autofocus and manual focus operation
- Nine-blade rounded diaphragm

Lens construction: 15 elements in 11 groups
Closest focusing: 0.7m/2.3 ft. (0.5m/1.6ft. at macro setting)
Picture angle with Nikon DX Format: 35mm (135) format equivalent to 42-105mm
Filter attachment size: 77mm
Hood: HB-19 (provided)
Dimensions: 3.5 x 4.8 in. Weight: 33.0 oz.

AF-S VR Zoom-Nikkor 70-200mm f/2.8G ED-IF (2.9x) Compact, lightweight G-type fast telephoto zoom lens with Vibration Reduction

- Built-in SWM for ultra-fast, ultra-quiet AF operation
- VR operation offers the equivalent of using a shutter speed 3 stops (eight times) faster**
- Two VR modes are available; [NORMAL] and [ACTIVE]
- Five ED glass elements

** As determined by Nikon performance tests.

Lens construction: 21 elements in 15 groups
Closest focusing: 1.5m/5 ft.
Picture angle with Nikon DX Format: 35mm (135) format equivalent to 105-300mm
Filter attachment size: 77mm
Hood: HB-29 (provided)
Dimensions: 3.4 x 8.5 in. Weight: 51.9 oz. (49.2 oz. without tripod mounting foot)
AF Zoom-Nikkor 70-300mm f/4-5.6D ED (4.3x)

High-power, portable telephoto zoom lens
- Powerful 4.3x telephoto zoom lens
- ED glass elements ensure superior optical performance
- Rotating zoom ring for precise zoom operation

Lens construction: 13 elements in 9 groups
Closed focusing: 1.5m/5 ft. Picture angle with Nikon DX Format: 35mm (135) format equivalent to 105-450mm Filter attachment size: 62mm Hood: HB-15 (provided)
Dimensions: 3.3 x 4.6 in. Weight: 17.8 oz.

AF Zoom-Nikkor 70-300mm f/4-5.6G* (4.3x)

High-power G-type telephoto zoom lens
- Nine-blade rounded diaphragm
- Provides distance information to AF Nikon cameras

Lens construction: 13 elements in 9 groups
Closed focusing: 1.5m/5 ft. Picture angle with Nikon DX Format: 35mm (135) format equivalent to 105-450mm Filter attachment size: 62mm Hood: HB-26 (provided)
Dimensions: 2.9 x 4.6 in. Weight: 13.3 oz.

AF-S VR Zoom-Nikkor 80-400mm f/4.5-5.6D ED-IF* (5x)

Compact, lightweight telephoto zoom lens with Vibration Reduction
- VR operation offers the equivalent of using a shutter-speed 3 stops (eight times) faster*
- Vibration Reduction for the viewfinder is cancellable to conserve battery power
- Panning is automatically detected
- Three ED glass elements ensure superior optical performance
- Nine-blade rounded diaphragm

Lens construction: 17 elements in 11 groups
Closest focusing: 1.8m/6 ft. Picture angle with Nikon DX Format: 35mm (135) format equivalent to 120-600mm Filter attachment size: 77mm Hood: HB-24 (provided)
Dimensions: 3.4 x 7.4 in. Weight: 45.9 oz.

AF Zoom-Nikkor 80-200mm f/2.8D ED (2.5x)

Superb telephoto zoom for sports and portraits
- High-performance, high-speed, telephoto zoom lens
- Holds its fast f/2.8 maximum aperture over the entire range of focal lengths
- Three ED glass elements
- Rotating zoom ring for precise zoom operation

Lens construction: 24 elements in 17 groups
Closest focusing: 1.2m/4 ft. Picture angle with Nikon DX Format: 35mm (135) format equivalent to 300-450mm Filter attachment size: 52mm Hood: HB-40 (provided)
Dimensions: 3.4 x 6.7 in. Weight: 48.0 oz. (H2.7 oz. without tripod mounting foot)

AF Zoom-Nikkor 70-300mm f/4-5.6D ED (4.3x)

Ten-blade rounded diaphragm
- M/A mode for quick switching between autofocus and manual focus operation
- Nine-blade rounded diaphragm

AF-S VR Zoom-Nikkor 200-400mm f/4G ED-IF (2x)

The AF-S VR super telephoto 2x zoom lens
- VR operation offers the equivalent of using a shutter-speed 3 stops (eight times) faster**
- Two VR modes are available: [NORMAL] and [ACTIVE]
- Focus Preset function
- M/A mode for quick switching between autofocus and manual focus operation
- Four ED glass elements

Lens construction: 57 elements in 39 groups
Closest focusing: 3m/9.8 ft. Picture angle with Nikon DX Format: 35mm (135) format equivalent to 600-800mm Filter attachment size: 82mm Hood: HB-7
Dimensions: 4.5 x 14.4 in. Weight: 115.5 oz.
Wideangle Nikkors are perfect for shooting in tight indoor areas or when taking group shots. Travel, landscape, and commercial photography are just a few of the applications suited to these lenses. The 14mm f/2.8D ED offers the widest views.

For one of the most unique perspectives in photography, there’s the 16mm fisheye f/2.8D. Featuring Nikon’s unique Close-Range Correction (CRC) system, the lens provides a 180° angle of view with consistent picture quality from all focusing distances.

Normal lenses are so called because they provide a 46° picture angle, for an angle of view that approximates that of the human eye. They are useful for many applications, from landscapes to candid shots. Other advantages include wide maximum apertures. The 50mm f/1.4D is extremely fast, and the 50mm f/1.8D is the most compact of all AF Nikkor lenses.

Wideangle and Normal AF Nikkors — distinguishing features

AF Nikkor 16mm f/2.8D

- Frame-filling fisheye makes dramatic images
- Full-frame fisheye images with a picture angle of 180° (diagonal)
- Close-Range Correction (CRC) system provides high performance at both near and far focusing distances
- Focuses down to 0.25m/0.85 ft.

AF Nikkor 14mm f/2.8D ED

- High-performance, ultra-wideangle lens for photo journalism
- Hybrid aspherical lens elements and ED glass element
- Picture angle with Nikon DX Format is equivalent to that of 21mm lens in 35mm (135) format
- RF (Rear Focusing) system

AF Nikkor 20mm f/2.8D

- Versatile ultra-wideangle lens for general photography
- Compact ultra-wideangle lens construction
- Close-Range Correction (CRC) system
- 94° picture coverage with edge-to-edge sharpness

ED glass elements
Aspherical lens elements
AF Nikkor 24mm f/2.8D

Superb wideangle for landscapes or candid shots
- Compact wideangle lens
- Lightweight construction
- Close-Range Correction (CRC) system
- 84° picture coverage with edge-to-edge sharpness

Lens construction: 6 elements in 5 groups
Closest focusing: 0.45m/1.5 ft.
Picture angle with Nikon DX Format: 35mm (135) format equivalent to 75mm
Filter attachment size: 52mm
Hood: HR-2
Dimensions: 2.5 x 1.5 in.
Weight: 5.5 oz.

AF Nikkor 28mm f/2.8D

Standard wideangle for general photography
- Compact, lightweight wideangle lens
- 74° picture coverage for superlative flexibility
- Focuses down to 0.25m/0.85 ft.

Lens construction: 6 elements in 6 groups
Closest focusing: 0.25m/0.85 ft. Picture angle with Nikon DX Format: 35mm (135) format equivalent to 42mm
Filter attachment size: 52mm Hood: HR-2 Dimensions: 2.6 x 1.8 in. Weight: 9.5 oz.

AF Nikkor 35mm f/2D

Versatile wideangle ideal for a broad range of uses
- Compact, lightweight wideangle lens
- 62° picture coverage
- Great for travel and candid photography
- Focuses down to 0.25m/0.85 ft.

Lens construction: 6 elements in 5 groups
Closest focusing: 0.25m/0.85 ft. Picture angle with Nikon DX Format: 35mm (135) format equivalent to 52.5mm
Filter attachment size: 52mm Hood: HR-3 Dimensions: 2.5 x 1.7 in. Weight: 7.2 oz.

AF Nikkor 50mm f/1.4D

High-performance normal lens
- High-speed normal lens
- Great for travel and for shooting full-length portraits in available light
- Distortion-free images with superb resolution and color rendition
- Provides high-contrast images even at maximum aperture

Lens construction: 7 elements in 6 groups
Closest focusing: 0.45m/1.5 ft. Picture angle with Nikon DX Format: 35mm (135) format equivalent to 75mm
Filter attachment size: 52mm Hood: HR-2 Dimensions: 2.5 x 1.7 in. Weight: 8.1 oz.

AF Nikkor 50mm f/1.8D

Portable normal lens
- Compact, affordable normal lens
- Lightweight (155g)
- Great depth-of-field control — stops down to f/22
- Ideal for close-up photography with an Auto Extension Ring

Lens construction: 6 elements in 5 groups
Closest focusing: 0.45m/1.5 ft. Picture angle with Nikon DX Format: 35mm (135) format equivalent to 75mm
Filter attachment size: 52mm Hood: HR-2 Dimensions: 2.5 x 1.5 in. Weight: 5.5 oz.
Telephoto AF Nikkor Lenses

With an array of focal lengths from 85mm to 600mm, extraordinary optics and high-performance autofocus, telephoto AF Nikkors have much to offer any serious photographer.

Nikkor telephoto lenses bearing the AF-S name offer incredibly fast, quiet autofocus operation, thanks to Nikon’s exclusive SWM. Indispensable for shooting fast-moving action, these telephoto lenses deliver superior autofocus for the Nikon F5, F6, F100, F90X, F90, F80, F70, F75, F65, PRONEA S, PRONEA 600i, D2-series, D1-series, D200, D90, D100, D70S/D70 and D20 cameras, and provide manual focusing for other Nikon SLRs.

Other AF-S Nikkor features include an innovative M/A control that lets you switch quickly from automatic to manual focusing modes, ergonomically placed focus lock buttons, and a focus range limiter that diminishes autofocus time.

For exceptional portrait photography, try the AF DC-Nikkor lenses. They offer Nikon’s exclusive Defocus-image Control which allows you to adjust the amount of foreground or background blur with a rotating ring. Nine-diaphragm aperture plane inside the lenses creates a rounded out-of-focus blur that is ideal for portraits.

Nikon also offers AF-S Teleconverters designed exclusively for AF-S Nikkor lenses. You can increase the focal length of a Nikkor telephoto lens by 1.4x with the TC-14E II, 1.7x with the TC-17E II or 2.0x with the TC-20E II.
AF DC-Nikkor 135mm f/2D
High-performance telephoto with Defocus-image Control
- Fast telephoto lens featuring Defocus-image Control
- Large maximum aperture allows shooting in dim light
- Recessed diaphragm opening makes out-of-focus elements appear more natural
- RF (Rear Focusing) technology for fast AF operation

AF DC-Nikkor 180mm f/2.8D ED-IF
High-performance medium telephoto for sports arenas or concert halls
- High-performance telephoto lens
- Perfect for news, sports, action and astronomical photography
- ED glass element
- IF (Internal Focusing) technology

AF-S VR Nikkor 200mm f/2G ED-IF
High-performance telephoto featuring SWM and VR system
- VR operation offers the equivalent of using a shutter speed 3 stops faster**
- Four ED glass elements including one Super ED glass
- Two VR modes are available: [NORMAL] and [ACTIVE]
- Focus Preset function
- Focuses down to 1.5m/5 ft.
** As determined by Nikon performance tests.

AF-S VR Nikkor 300mm f/2.8G ED-IF
Telephoto with SWM and VR for serious sport photographers
- VR operation offers the equivalent of using a shutter speed 3 stops faster**
- ED glass elements
- Nano Crystal Coat reduces ghost and flare for clear images
- M/A mode allows rapid switching between autofocus and manual operation
- Nine-blade rounded diaphragm
** As determined by Nikon performance tests.

AF-S Nikkor 180mm f/2.8D ED-IF
- Lens construction: 7 elements in 6 groups
- Closest focusing: 1.1m/4 ft.
- Picture angle with Nikon DX format: 35mm (135) format equivalent to 202mm
- Filter attachment size: 72mm
- Dimensions: 3.1 x 4.7 in. Weight: 28.7 oz.

AF-S VR Nikkor 300mm f/4D ED-IF
A light, compact AF-S telephoto lens
- High optical performance even with a teleconverter attached
- ED glass elements
- Focuses down to 1.45m/4.8 ft.
- M/A mode allows rapid switching between autofocus and manual operation
- Nine-blade rounded diaphragm

Note:
- Nano Crystal Coat is applied to the rear (camera side) of lens surfaces.

The G-type Nikkor has no aperture ring; aperture should be selected from camera body.
G-type Nikkor is compatible with all exposure modes of the Nikon FE, F5, F100, N80, N90, N65, N6000 series, FM2, F4S, D800, D700, D300s, D200 and D300, and the [P] and [S] modes of the F4, N90 series, F100, N8008 series and N6000. Other cameras are not compatible.
**AF-S Nikkor 400mm f/2.8D ED-IF II**

- **Compaitible with AF-S Nikkor lenses**
- Increases original focal length by 70%
- Reduces lens aperture by 1.5 f-stops
- Autofocus possible with AF-S and AF-I Nikkors having maximum aperture of f/2.8 or larger (except AF-S VR Micro 105mm f/2.8G ED-IF)
- Front Cap BF-3A (can be used as body cap)
- **Lens construction:** 11 elements in 9 groups
- **Closest focusing:** 4.6m/15.1 ft. (4.4m/11.2 ft. in MF)
- **Picture angle with Nikon DX Format:** 35mm (135) format equivalent to 600mm
- **Filter attachment size:** 52mm
- **Hood:** HK-27 (provided)
- **Dimensions:** 6.3 x 13.8 in.
- **Weight:** 167.6 oz.

**Note:** AF-S Teleconverters are compatible with AF-S and AF-I Nikkor lenses except AF-S 17-35mm f/2.8D ED-IF, VR 24-120mm f/3.5-5.6G ED-IF, 28-70mm f/2.8D ED-IF and DX Nikkor lenses.

**AF-S Teleconverter TC-14E II**

- **Sophisticated design matches the latest AF-S Nikkor lenses**
- Increases original focal length by 40%
- Reduces lens aperture by one f-stop
- Autofocus possible with AF-S and AF-I Nikkors having maximum aperture of f/4 or larger (except AF-S VR Micro 105mm f/2.8G ED-IF)
- Front Cap BF-3A (can be used as body cap)
- **Lens construction:** 5 elements in 5 groups
- **Dimensions:** 2.6 x 1.0 in.
- **Weight:** 7.1 oz.

**AF-S Teleconverter TC-20E II**

- **Sophisticated design matches the latest AF-S Nikkor lenses**
- Increases original focal length by 100%
- Reduces lens aperture by two f-stops
- Autofocus possible with AF-S and AF-I Nikkors having maximum aperture of f/2.8 or larger (except AF-S VR Micro 105mm f/2.8G ED-IF)
- Front Cap BF-3A (can be used as body cap)
- **Lens construction:** 7 elements in 6 groups
- **Dimensions:** 2.6 x 2.2 in.
- **Weight:** 12.5 oz.

**AF-S Nikkor 500mm f/4D ED-IF II**

- **Compact, high-performance supertelephoto**
- Magnesium alloy ensures lightweight body
- **ED glass elements**
- **Aspherical lens elements**
- M/A mode allows rapid switching between autofocus and manual focus operation
- Nine-blade rounded diaphragm
- **Lens construction:** 11 elements in 9 groups
- **Closest focusing:** 4.6m/15.1 ft. (4.4m/11.2 ft. in MF)
- **Picture angle with Nikon DX Format:** 35mm (135) format equivalent to 750mm
- **Filter attachment size:** 52mm
- **Hood:** HK-28 (provided)
- **Dimensions:** 5.5 x 15.5 in.
- **Weight:** 121.0 oz.

**AF-S Nikkor 600mm f/4D ED-IF II**

- **Powerful supertelephoto for distant fast-moving subjects and wildlife**
- Magnesium alloy ensures lightweight body
- **ED glass elements**
- M/A mode allows rapid switching between autofocus and manual focus operation
- Nine-blade rounded diaphragm
- **Lens construction:** 11 elements in 9 groups
- **Closest focusing:** 3.5m/11.5 ft. (3.4m/11.2 ft. in MF)
- **Picture angle with Nikon DX Format:** 35mm (135) format equivalent to 900mm
- **Filter attachment size:** 52mm
- **Hood:** HK-27 (provided)
- **Dimensions:** 6.3 x 13.8 in.
- **Weight:** 156.6 oz.

**AF-S Nikkor 400mm f/2.8D ED-IF II**

- **ED glass elements**
- **Aspherical lens elements**
- Magnesium alloy ensures lightweight body
- Ideal for wildlife and sports photography
- **ED glass elements**
- M/A mode allows rapid switching between autofocus and manual focus operation
- Nine-blade rounded diaphragm
- **Lens construction:** 10 elements in 7 groups
- **Closest focusing:** 5.4m/17.7 ft. (5.3m/17.3 ft. in MF)
- **Picture angle with Nikon DX Format:** 35mm (135) format equivalent to 900mm
- **Filter attachment size:** 52mm
- **Hood:** HK-29 (provided)
- **Dimensions:** 6.5 x 16.9 in.
- **Weight:** 187.6 oz.

* At normal temperature.
AF Micro- and PC Micro-Nikkors — distinguishing features

For close-up photography without compromise, Micro-Nikkor lenses are the obvious choice for your Nikon SLR.

Each of the AF Micro-Nikkors offers f-stops down to f/32, and the PC Micro-Nikkor down to f/45. This permits maximum depth of field, so crucial for close-up and macro shooting. Plus, Nikon’s Super Integrated Coating and Close-Range Correction system offer superior optical performance and color reproduction.

The three fixed focal length AF Micro-Nikkors (60mm f/2.8D, 105mm f/2.8G ED-IF, 200mm f/4D ED-IF) allow photographers to shoot 1:1 life-size close-ups without any accessory.

The PC Micro-Nikkor 85mm f/2.8D is equipped with a tilt/shift mechanism that lets photographers manipulate image perspective, distortion, and focus.

With 1:2 life-size macro capability, this lens is ideal for commercial photographers who shoot tabletop product photos.

AF Micro-Nikkor 60mm f/2.8D

Nikon’s most compact Micro lens for close-up and general photography

• Versatile lens for macro photography
  • Close-up to approx. 0.22m/0.7 ft. (1:1 reproduction ratio)
  • Close-Range Correction (CRC) system provides high performance at both near and far focusing distances

AF-S VR Micro-Nikkor 105mm f/2.8G ED-IF*

The world’s first macro lens equipped with SWM and VR systems

• Versatile medium telephoto lens for portrait and detail work
  • Close-up to approx. 0.31m/1 ft. (1:1 reproduction ratio)
  • Nano Crystal Coat reduces ghost and flare for clear images
  • Built-in SWM for ultra-fast, ultra quiet AF operation
  • Nikon Vibration Reduction System (VR) operation offers the equivalent of using a shutter speed 4 stops faster*  

AF Micro-Nikkor 200mm f/4D ED-IF

Telephoto Micro lens for close-ups and nature photography

• Extremely versatile telephoto lens with long working distance
  • Close-up to approx. 0.5m/1-5/8 ft. (1:1 reproduction ratio)
  • 28cm working distance for easy close-ups
  • Close-Range Correction (CRC) system
  • Nine-blade rounded diaphragm
  • ED glass elements

PC Micro-Nikkor 85mm f/2.8D

85mm medium telephoto lens with tilt/shift mechanism and macro capability

• Wide tilting and shifting range (tilt: ±8.3°, shift: ±12.4mm)
  • 1/2 life-size macro shooting capability (at 0.39m/1.3 ft.)
  • ±90° lens revolving mechanism for versatile tilt/shift effects.

PC Micro-Nikkor Lenses

PC Micro-Nikkor 60mm f/2.8D

• Two Aspherical lens elements

PC Micro-Nikkor 105mm f/2.8G ED-IF

• ED glass elements

PC Micro-Nikkor 200mm f/4D ED-IF

• Nano Crystal Coat

PC Micro-Nikkor 85mm f/2.8D

• Aspherical lens elements

”The G-type Nikkor has no aperture ring; aperture should be selected from camera body.

* As determined by Nikon performance tests.

Lens construction: 6 elements in 5 groups
Closest focusing: 0.39m/1.3 ft Picture angle with Nikon DX Format: 11mm (0.31) format equivalent to 30mm Working distance: 210mm Filter attachment size: 62mm Hood: HB-22 Dimensions: 3.0 x 7.6 in. Weight: 27.3 oz.

Lens construction: 14 elements in 12 groups
Closest focusing: 0.31m/1.0 ft Picture angle with Nikon DX Format: 10mm (0.33) format equivalent to 30mm Working distance: 154mm Filter attachment size: 62mm Hood: HB-38 (provided) Dimensions: 3.3 x 4.6 in. Weight: 27.9 oz.

Lens construction: 13 elements in 8 groups
Closest focusing: 0.5m/1.5 ft Picture angle with Nikon DX Format: 7mm (0.21) format equivalent to 210mm Working distance: 140mm Filter attachment size: 62mm Hood: HB-22 Dimensions: 3.3 x 4.3 in. Weight: 27.3 oz.

* Working distance is the distance between the front of the lens and the subject. It is desirable to have a longer free working distance for close-up work due to lighting and subject considerations.

85mm medium telephoto lens with tilt/shift mechanism and macro capability

• Wide tilting and shifting range (tilt: ±8.3°, shift: ±12.4mm)

Note: The camera’s exposure metering and flash control system do not work properly when shifting and/or tilting the lens, or when using an aperture other than the maximum aperture. Shifting and/or tilting the lens to a large degree can cause some vignetting. This lens cannot be used with the Nikon PRONEA cameras.
| Lens | Construction (glass elements) | Pupil Angle with 35mm (°/°/°) | Minimum F/Stop | Closed-Net Width | Maximum Reproduction Ratio | Filter Size | Lens Name | Lens Hood | Dia. x Length (extension from lens mount) (x) | Weight (oz.) | TO-201 | TO-301 | TO-HA | TO-HD | TO-HD | TO-HE-9 | TO-20ES | AF-3 | Max. number of HB-15 hands usable | HB-4 | Max. number of HB-27 hands usable |
|------|-----------------------------|-----------------------------|----------------|----------------|----------------------|----------|----------|---------|---------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|-------|---------------- |-------|
| AF 28-70mm f/2.8D IF-ED* | 9/9 15° 60° 22° 29° | 3.25 (3.6) | 1.5 | New attachment type | CL-0715 Sub-n | 3.8 x 5.0 | 13.8 | — | — | — | — | — | — | — | — | — | — | — | Not usable | Not usable | — | — | — | — | — | — | — | — | — |
| AF-S 24-120mm f/4G ED VR* | 11/17 25° 10° 20° 10° | 3.0 x 3.8 | 1.5 | 32 | CL-0815 Sub-n | 3.0 x 4.3 | 16.4 | — | — | — | — | — | — | — | — | — | — | — | Not usable | Not usable | — | — | — | — | — | — | — | — | — |
| AF-S 24-85mm f/3.5-4.5G ED VR* | 11/17 20° 6° 10° 10° | 3.0 x 3.6 | 1.5 | 16 | CL-0815 Sub-n | 2.5 x 3.3 | 9.4 | — | — | — | — | — | — | — | — | — | — | Not usable | Not usable | — | — | — | — | — | — | — | — | — |
| AF-S 50mm f/1.8G | 3/3 20° 10° 10° 5° | 3.0 x 3.6 | 1.5 | 52 | CL-0715 Sub-n | 2.0 x 2.8 | 7.1 | — | — | — | — | — | — | — | — | — | — | Not usable | Not usable | — | — | — | — | — | — | — | — | — |
| AF-S 70-200mm f/2.8E FL ED VR | 9/16 30° 3° 10° 10° | 3.0 x 3.6 | 1.5 | 52 | CL-0715 Sub-n | 2.0 x 2.8 | 7.1 | — | — | — | — | — | — | — | — | — | Not usable | Not usable | — | — | — | — | — | — | — | — | — |
| AF-S 70-200mm f/4E FL ED VR* | 11/16 30° 3° 10° 10° | 3.0 x 3.6 | 1.5 | 52 | CL-0715 Sub-n | 2.0 x 2.8 | 7.1 | — | — | — | — | — | — | — | — | — | Not usable | Not usable | — | — | — | — | — | — | — | — | — |
| AF-S 70-200mm f/2.8E FL ED VR* | 11/16 30° 3° 10° 10° | 3.0 x 3.6 | 1.5 | 52 | CL-0715 Sub-n | 2.0 x 2.8 | 7.1 | — | — | — | — | — | — | — | — | — | Not usable | Not usable | — | — | — | — | — | — | — | — | — |
| AF-S 85mm f/1.4G | 5/5 25° 20° 5° 5° | 3.0 x 3.6 | 1.5 | 52 | CL-0715 Sub-n | 2.0 x 2.8 | 7.1 | — | — | — | — | — | — | — | — | — | Not usable | Not usable | — | — | — | — | — | — | — | — | — |
| AF-S 28-70mm f/2.8G ED | 9/15 25° 10° 10° 10° | 3.0 x 3.6 | 1.5 | 16 | CL-0815 Sub-n | 2.5 x 3.3 | 9.4 | — | — | — | — | — | — | — | — | — | Not usable | Not usable | — | — | — | — | — | — | — | — | — |
| AF-S 105mm f/1.4E ED | 4/4 10° 10° 10° 10° | 3.0 x 3.6 | 1.5 | 52 | CL-0715 Sub-n | 2.0 x 2.8 | 7.1 | — | — | — | — | — | — | — | — | — | Not usable | Not usable | — | — | — | — | — | — | — | — | — |
| AF-S 105mm f/1.4E ED | 6/5 10° 10° 10° 10° | 3.0 x 3.6 | 1.5 | 52 | CL-0715 Sub-n | 2.0 x 2.8 | 7.1 | — | — | — | — | — | — | — | — | — | Not usable | Not usable | — | — | — | — | — | — | — | — | — |
| AF-S 200mm f/2G | 5/5 10° 10° 10° 10° | 3.0 x 3.6 | 1.5 | 52 | CL-0715 Sub-n | 2.0 x 2.8 | 7.1 | — | — | — | — | — | — | — | — | — | Not usable | Not usable | — | — | — | — | — | — | — | — | — |
| AF-S 200mm f/2G | 5/5 10° 10° 10° 10° | 3.0 x 3.6 | 1.5 | 52 | CL-0715 Sub-n | 2.0 x 2.8 | 7.1 | — | — | — | — | — | — | — | — | — | Not usable | Not usable | — | — | — | — | — | — | — | — | — |

Notes: Lens hood names indicate type: HB for Screw-on, HR for Rubber Screw-in, HB for Slip-on, HB for Snap-on, and HB for Bayonet.

1) Tripod mounting collar is provided.
2) Compatible with AF-5 lens release
3) AF-S 35-80mm f/4-5.6G ED AF 35-80mm f/3.5-4.5G ED II, 70-300mm f/4-5.6G ED II and DX Nikkor lenses.
4) The lens aperture may not work properly when shifting and/or tilting the lens, or when using an aperture less than the maximum aperture. Shifting and tilting the lens is a large degree can cause some vignetting. This lens cannot be used with the Nikon PROFESSIONAL SERIES lenses.

- ✔ Usable
- ✔a Righting-screening occurs.
- ✔b Shutter speed cannot be used.
- Not usable

Specifications

1. The Nikon camera and flash system do not work properly when shifting and/or tilting the lenses, or when using an aperture less than the maximum aperture. Shifting and tilting the lens is a large degree can cause some vignetting. This lens cannot be used with the Nikon PROFESSIONAL SERIES lenses.

- ✔ Usable
- ✔a Righting-screening occurs.
- ✔b Shutter speed cannot be used.
- Not usable

When used at smaller aperture than f/11 with high shutter speeds, there is an occasional uneven exposure.

- ✔a Righting-screening occurs.
- ✔b Shutter speed cannot be used.
- Not usable
# Manual-Focus Lenses

A versatile and unique selection of lenses

---

**Nikkor 20mm f/2.8**

Versatile ultra-wideangle lens for general photography

- Compact, ultra-wideangle lens construction
- 94° picture angle with edge-to-edge sharpness
- Close-Range Correction (CRC) system

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**Nikkor 24mm f/2.8**

Superb wideangle for landscapes or candid subjects

- Compact wideangle lens
- 84° picture angle with edge-to-edge sharpness
- Close-Range Correction (CRC) system

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**Nikkor 28mm f/2.8**

Standard wideangle for general photography

- Compact, lightweight wideangle lens
- 74° picture angle for superlative flexibility
- Close-Range Correction (CRC) system

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**Nikkor 35mm f/1.4**

Superior image quality with a wide aperture of f/1.4

- High-speed wideangle lens
- High-contrast, sharp images even at maximum aperture
- Close-Range Correction (CRC) system

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**Nikkor 50mm f/1.2**

Ultra-fast f/1.2 aperture normal lens

- High-speed normal lens
- High-contrast, sharp images even at maximum aperture
- Ideal for candid, scenic, and available-light shooting

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**Nikkor 50mm f/1.4**

High-performance normal lens

- High-speed normal lens
- Distortion-free images with superb resolution
- Great for travel and for shooting full-length portraits in available light

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**Micro-Nikkor 105mm f/2.8**

Superb normal Macro lens with 1/2 maximum reproduction ratio

- Versatile lens for macro photography
- Close-up to approx. 0.25m/0.85 ft.
- 1:2 reproduction ratio
- Close-Range Correction (CRC) system

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**Micro-Nikkor 55mm f/2.8**

Medium telephoto with macro close-up capability

- Versatile medium telephoto lens for close-up and candid photography
- Close-up to approx. 0.41m/1.34 ft.
- 1:2 reproduction ratio
- Close-Range Correction (CRC) system

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© Paolo Patrizi

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### Choosing the Right Lens — Some Points to Consider

Selecting which lens to purchase is one of the most important decisions you can make as a photographer, for the lens often determines both what and how you can shoot. Below, we’ve outlined a range of technical factors to consider when searching for the lens that’s right for you.

#### Depth of Field

The picture angle and the smaller the depth of field, the wider the picture angle and the larger the image size. A larger focal length means a narrower picture angle and larger image size. For example, a 50mm normal lens is so called because it gives a 46° picture angle for images that are about the same size with that of the human eye.

Accordingly, wideangle lenses offer broader views and are the favourites of landscape photographers and those who shoot in tight interior spaces. Telephoto lenses pull in distant subjects and scenes, for a narrower picture angle that can provide dramatic close-ups for many types of photography.

#### Perspective

Perspective is a phenomenon that is easier to understand by example than explanation and is wholly determined by the camera-to-subject distance (see photos, above). In short, perspective is the relative size and depth of subjects within a picture; that is, how far the foreground and background appear to be separated from each other. If foreground objects appear much larger than those in the background — which occurs when using wideangle lenses — this is called exaggerated perspective. Understanding the different perspectives offered by different lenses will help in choosing which lens to use to create certain photographic effects.

#### Focal Length

Focal length is also important, for the depth of field decreases as the lens focal length increases. Thus, wideangle lenses offer inherently more depth of field along the entire focal length while telephoto lenses have less.

### Close-up Accessories

**Auto Extension Rings PK and PN**

Compact, lightweight and easy to attach, these rings — PK-11A, PK-13, PK-13 and PN-11 — offer a wide range of reproduction ratios. They fit between the camera body and lens either isolated or in combination.

**Tipod Mounting Spacer**

AH-5 for the PC Micro-Nikkor 85mm f/1.8D

When using a tripod with the PC Micro-Nikkor 85mm f/1.8D, the AH-5 provides space between the camera body and tripod for smoother tilt/shift operation.

### Photographic Attachment

This attachment lets you transform Nikon Fieldscopes III/III A/EDIII/EDIII A into an 800mm f/12.8 (1,000mm f/13.3 with the ED76/ED78A/ED82/ED82A) super-telephoto lens.

**Fieldscope Digital SLR Camera Attachment**

FSA-L1

Transform your Fieldscope into a 1,200mm or 1,500mm super-telephoto lens for Nikon digital SLR cameras and take spectacular close-up images.

* 35mm-format equivalent

### Lens Caps

Made of hard plastic, metal or leather, these caps protect the front and rear portions of the lens from dust, smudges and scratches. Front lens caps are available in the following attachment sizes: 52mm, 58mm, 62mm, 72mm, 77mm, 85mm, 95mm, 105mm. Rear Lens Cap LF-1 is compatible with all lenses.

### Lens Hoods

Lenses hoods minimise stray light, helping reduce flare and eliminate “ghost” images; they also protect the lens.

### Lens Straps

The lens strap LN-1 is easily adjustable for carrying various telephoto lenses, even large, heavy ones, comfortably on a shoulder.

### Lens Cases

Nikon lens cases keep your fine optical equipment safe from dust, dampness and shocks.

**Cylindrical Case (CL):** The handsome black leatherette finish is complemented by soft, plush lining.

**Trunk Case (CT):** A durable trunk case is supplied with larger lenses including fast super-telephoto lenses.

**Soft Pouch (CL-S2~S4/M1/M2/L1/L2):** Accommodates a variety of lenses of different focal lengths.