

***Nikon***

# Nikkor Lenses

High-performance tools  
for your Nikon SLR



# Nikkor Lenses — Seamless Performance, Abs

**W**hen 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 unrivalled 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

## Fisheye Wide angle Normal AF Nikkor Lenses

Pp. 14-17

Provide both **versatility** and **portability** for every type of photographers from beginners to pros for **every moment.**

Pp. 8-13

## Zoom- AF Nikkor Lenses



### Wideangle AF

**Nikkors**, including AF Fisheye Nikkor, provide superior depth of field and fast apertures for photojournalism and travel. There are also **Normal AF Nikkors** for a natural perspective for diverse applications, from landscapes to candid shots.



## Telephoto AF Nikkor Lenses

Pp. 18-23

**Telephoto AF Nikkors**, including **AF DC-Nikkors**, **AF-S Nikkors**, and **AF-S & AF-I**

**Teleconverters**, create dramatic sports, wildlife, portrait photographs and everything in between. AF DC-Nikkors offer creative focusing control for exceptional portraits.

# olute Precision, and Total Reliability

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 F5, D1 with features such as 3D

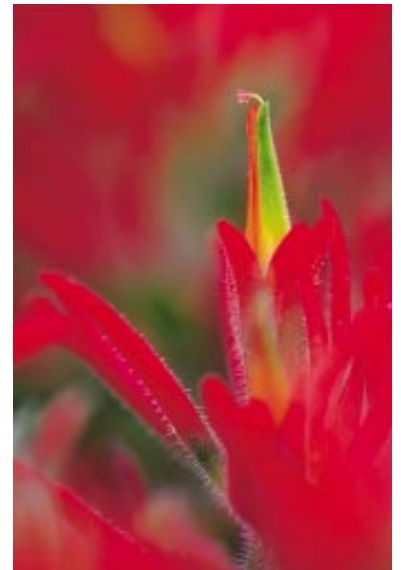
Colour Matrix Metering and 3D Multi-Sensor Balanced Fill-Flash, you can be sure to find an array of Nikkor lenses that can handle these advances too.

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.**



For absolute **clarity** and **sharpness** of detail for close-up photography.

AF Micro-  
PC Micro- &  
Nikkor Lenses  
Pp.24-25



Manual-  
focus Lenses Pp.28-29



A **versatile** and **unique selection** of manual focus lenses from the ultrawideangle to Reflex Nikkor.



Pp.30-31  
**Accessories**



Suggested equipment combinations, and accessories for Nikkor lenses.

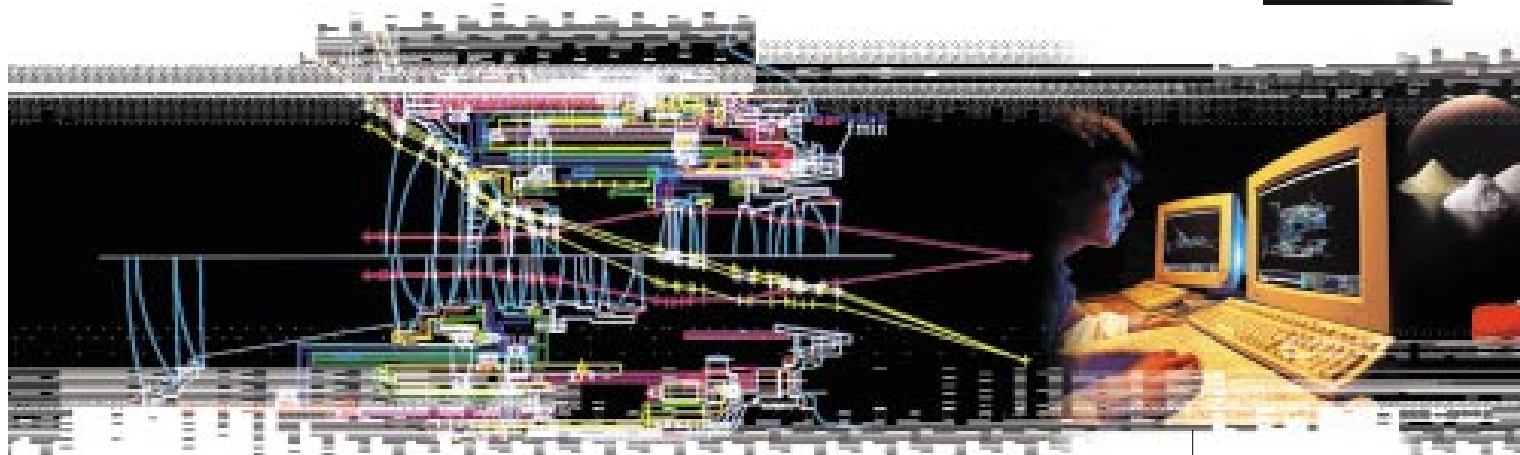
## A history of exceptional performance — Nikkor lenses

Nikon began producing lenses under the Nikkor name in 1933, and since then more than 25 million lenses have been sold worldwide. Throughout the years, our unwavering commitment to quality and innovation has yielded many breakthroughs in the photographic industry. In the 1960s, for example, Nikon pioneered the design and production of **aspherical lenses**. 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 1997, Nikon produced the world's first AF zoom lens for macro photography — the **AF Zoom-Micro 70-180mm f/4.5-5.6D ED**.

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 why **Nikkor lenses provide superior performance and are thus the best match for your Nikon SLR.**

“Our commitment to innovation, to the professional and amateur photographers who rely on us, and to the Nikon tradition of excellence, inspires us to design lenses and equipment that are **simply the best.**”

*Nikon optical designer*



Optical design using computer

### 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 new 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 characterises

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 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 Nikkor 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,

that your Nikon camera is compatible with virtually all 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

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

Optical glass raw materials



Inspecting glass blocks

Coating lenses

Adjusting optical axis

Inspecting resolution

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

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 scrutinised 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

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.



**“In the last 12 years I’ve used the Nikon system under all kinds of conditions, from the extreme heat of Death Valley to the extreme cold of Antarctica — and I’m totally satisfied with its reliable performance.”**

Rod Planck

“The legendary **sharpness** and **contrast** of Nikkor lenses are major factors in my choosing Nikon equipment.”

John Shaw

**ED glass — an essential element of Nikkor telephoto lenses**

Nikon developed ED (Extra-low Dispersion) glass to enable the production of lenses that offer superior sharpness and colour correction by minimising chromatic aberration.

Put simply, chromatic aberration is a type of image

even at their largest apertures. In this way, Nikkor's ED-series lenses exemplify Nikon's pre-eminence in lens innovation and performance.

**Nikon Super Integrated Coating ensures exceptional performance**

To enhance the performance of its optical lens elements, Nikon employs an exclusive

types of ED glass suitable for various lenses.

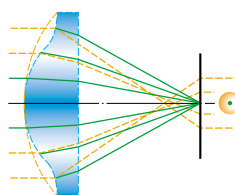
They deliver stunning sharpness and contrast

characterises Nikkor lenses. This results in lenses that meet much higher standards than the rest of the industry.

**ASP Aspherical lens elements**

Nikon introduced the first photographic lens with aspherical lens elements in 1968. What sets them apart? Aspherical lenses virtually eliminate the problem of coma and other types of lens aberration — even when used at the widest aperture. They are particularly useful in correcting the distortion in wideangle lenses. In addition, use of aspherical lenses contributes to a lighter and

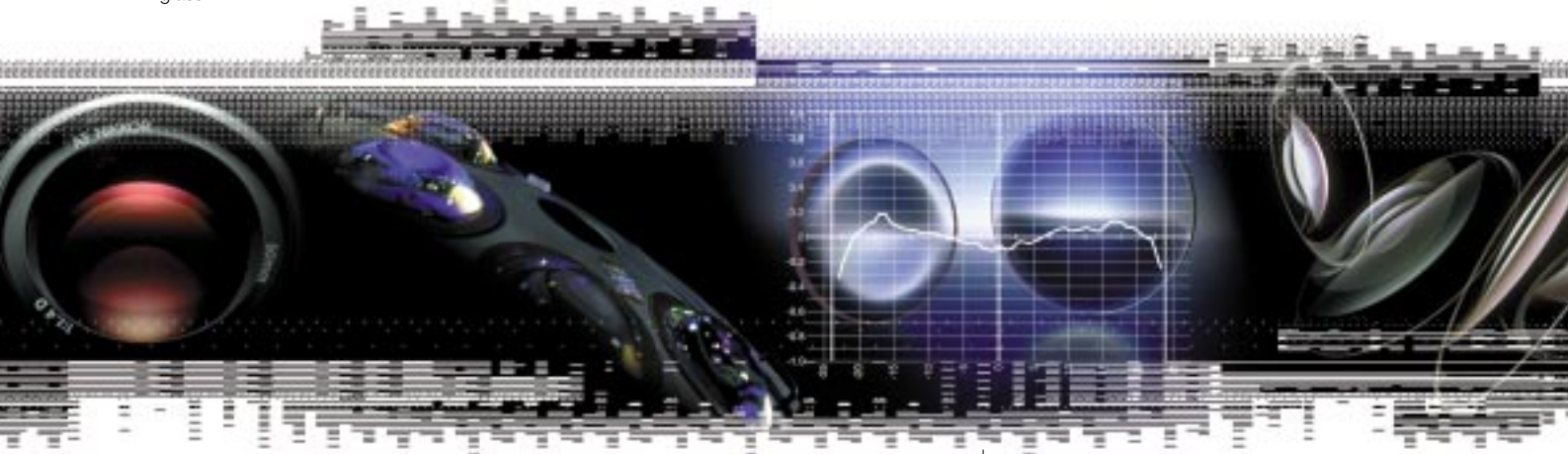
**Aspherical Lens**



— : Optical path of normal lens  
— : Optical path of aspherical lens

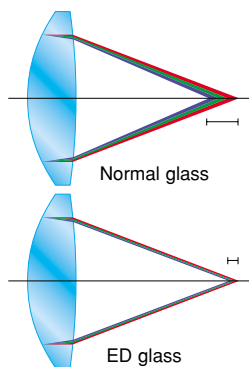


ED glass



Aspherical lens elements

**Secondary spectrum**



and colour dispersion that occurs when light rays of varying wavelengths pass through optical glass. In the past, correcting this problem for telephoto lenses required special optical elements that offer anomalous dispersion characteristics — specifically calcium fluoride crystals. However, fluorite easily cracks and is sensitive to temperature changes that can adversely affect focusing by altering the lens' refractive index.

So Nikon designers and engineers put their heads together and came up with ED glass, which offers all the benefits, yet none of the drawbacks of calcium fluoride-based glass. With this innovation, Nikon developed several

new multilayer lens coating that helps reduce ghost and flare to a negligible level.

Nikon Super Integrated Coating achieves a number of objectives, including minimised reflection in the wider wavelength range and superior colour balance and reproduction. Nikon Super Integrated Coating is especially effective for lenses with a large number of elements, like our Zoom-Nikkors.

Also, Nikon's multilayer coating process is tailored to the design of each particular lens. The number of coatings applied to each lens element is carefully calculated to match the lens type and glass used, and also to assure the uniform colour balance that

smaller lens design.

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

## **CRC** Close-Range Correction system

The Close-Range Correction (CRC) system is one of Nikon's most important focusing innovations, for it provides superior picture quality at close focusing distances and increases the focusing range.

With CRC, the lens elements are configured in a "floating element" design wherein each lens group moves independently to achieve focusing. This ensures superior lens performance even when shooting at close distances.

The CRC system is used

## **RF** Rear Focusing (RF)

With Nikon's new Rear Focusing (RF) system, all the lens elements are divided into specific lens groups, with only the rear lens group moving for focusing. This makes autofocus operation smoother and faster.

## **AF DC-Nikkor lenses—unique Nikkors for unique portraits**

AF DC-Nikkors feature exclusive Nikon Defocus-image Control technology. This allows photographers to control the degree of spherical aberration in the foreground or background by rotating

Flash control; F5, F100, F90X, F80, F70, D1 series and D100.

## **SWM** Silent Wave Motor

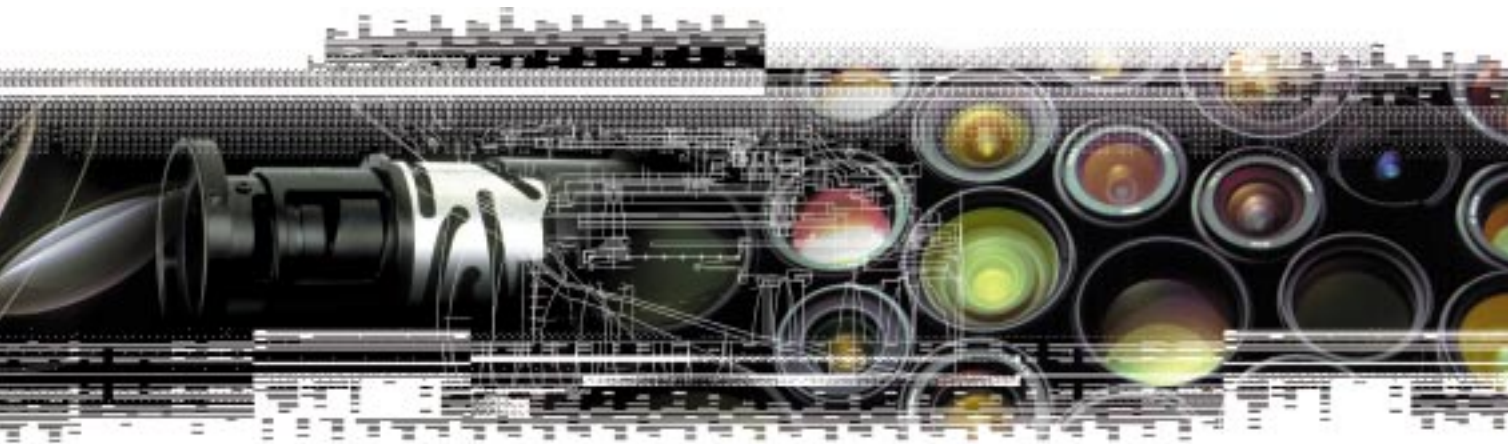
Nikon's AF-S technology is yet another reason professional photographers like Nikkor telephoto lenses. AF-S Nikkors feature Nikon's SWM which converts "traveling waves" into rotational energy to focus the optics. This enables high-speed autofocus that's extremely accurate and super quiet.

## **M/A** M/A mode

AF-S Nikkors feature Nikon's exclusive M/A mode, that allows switching from autofocus to manual operation with virtually no time lag —

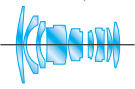


SWM

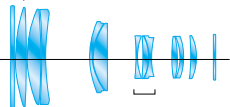


Cam for zoom mechanism

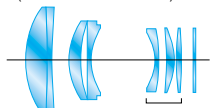
### Focusing lens groups CRC (AF 24mm f/2.8D)



### IF (AF-S 300mm f/2.8D IF-ED II)



### RF (AF DC 135mm f/2D)



in fisheye, wideangle, Micro, and selected medium telephoto Nikkors.

## **IF** Internal Focusing (IF)

Imagine being able to focus a lens without it changing in size. Nikon's IF technology enables just that. All internal optical movement is limited to the interior of the nonextending lens barrel. This allows for a more compact, lightweight construction as well as a closer focusing distance. In addition, a smaller and lighter focusing lens group is employed to ensure faster focusing. The IF system is featured in most Nikkor telephoto and selected Nikkor zoom lenses.

the lens' DC ring. This will create a rounded out-of-focus blur that is ideal for portrait photography. No other lenses in the world offer this special technique.

## **D** Distance information

D-type and G-type Nikkors relay subject-to-camera distance information to AF Nikon camera bodies. This then makes possible advances like 3D Matrix Metering and 3D Multi-Sensor Balanced Fill-Flash.

Note: D-type and G-type Nikkors provide distance information to the following cameras: Auto exposure; F5, F100, F90X, F80, F70, F65, F60, F55, F50, PRONEA S, PRONEA 600i, D1 series and D100

even during AF servo operation and regardless of AF mode in use.

## **VR** Vibration Reduction (VR)

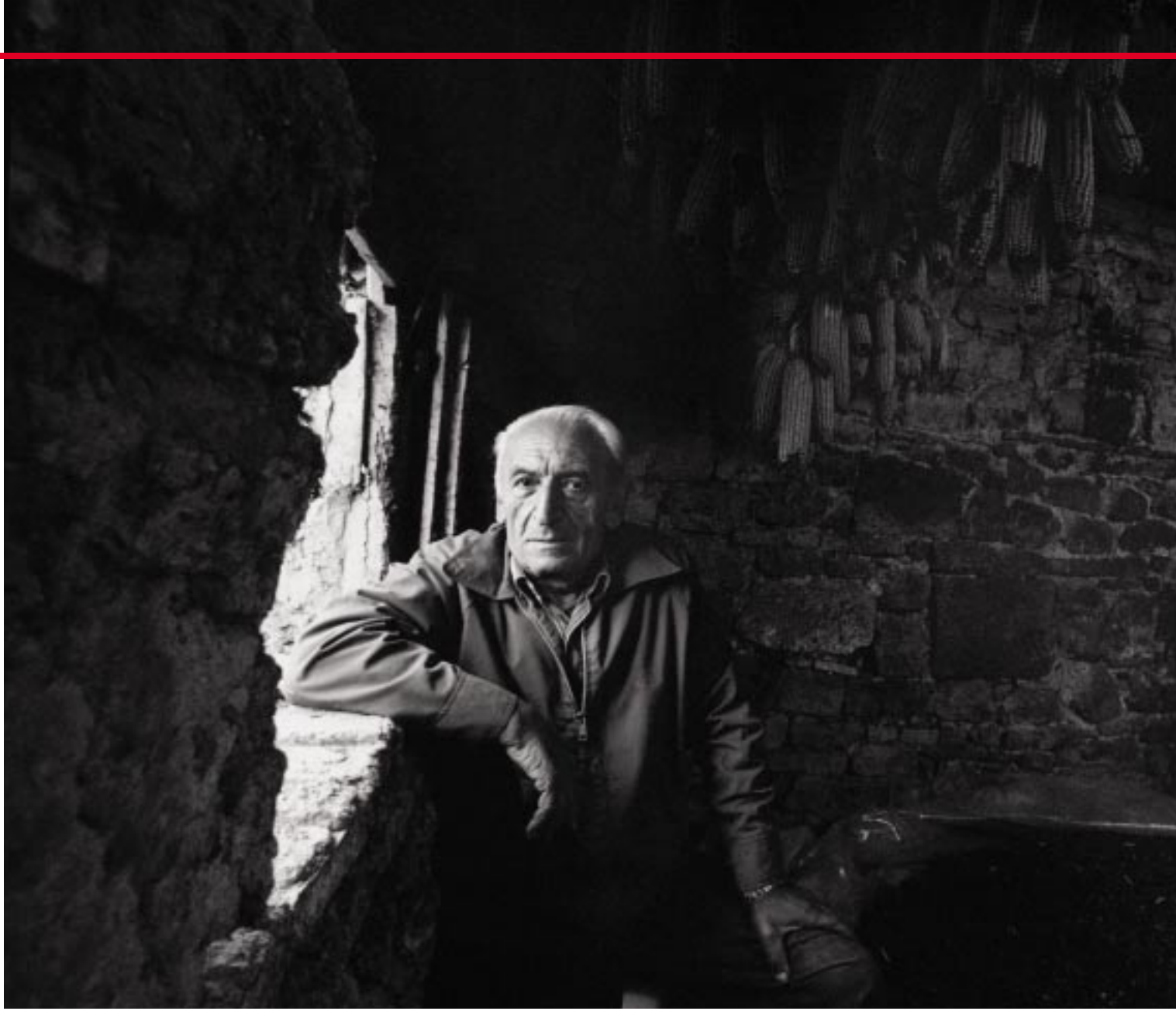
This innovative VR system minimises image blur caused by camera shake, and offers the equivalent of shooting at a shutter speed three stops (eight times) faster.\* It allows handheld shooting at dusk, at night, and even in poorly lit interiors. The lens' VR system also detects automatically when the photographer pans — no special mode is required.

\* As determined by Nikon performance tests.



VR lens unit







# AF Zoom-Nikkor Lenses



© Jon Ormer  
AF Zoom-Nikkor 28-105mm f/3.5-4.5D IF

**“**I bought my **17-35mm f/2.8** Nikkor last fall and ... here's what I found. It's **sharp**. It's **bright**. It's simple. It fits my hand. It covers my new most favourite focal lengths. If I had to choose only one 35mm lens to use, this would be the one. No hesitations.**”**

Sue Bennett

## AF Zoom-Nikkors — distinguishing features

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? There's the **28-80mm** lens, one of the most popular. 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** and **28-200mm** lenses offer 5x and 7x zoom ratio, respectively. Not only are these two lenses versatile, they're 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 IF-ED**, **35-70mm f/2.8D**, **AF-S 28-70mm f/2.8D IF-ED**, **AF-S 80-200mm f/2.8D IF-ED** and **80-200mm f/2.8D ED** 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 f/2.8-4D IF** (max. magnification: 1/2), **28-105mm f/3.5-4.5D IF** (max. magnification: 1/2) and the **70-300mm f/4-5.6D ED** (max. magnification: 1/3.9).



AF-S Zoom-Nikkor 28-70mm f/2.8D IF-ED © Darcy Padilla



AF Zoom-Nikkor 24-50mm f/3.3-4.5D © Yu Yuntian

## Ready for every moment

What makes a professional capable of capturing the moment boils down to readiness. And no lenses provide that edge better than **AF Zoom-Nikkors**: lenses that set world standards with all the versatility and portability needed for flawless focusing at an instant's notice. Unbeatable resolution and clarity throughout the entire zoom range put Nikkors in a high-performance class all their own. And SWMs in each **AF-S Zoom-Nikkor\*** make autofocus

extra fast and quiet. Explore from a fixed shooting position the extensive focal range of a AF Zoom-Nikkor, and witness how Nikon makes capturing every once-in-a-lifetime moment easier than ever.

\* AF operation is possible with the Nikon F5, F4, F100, F90X, F90, F80, F70, F65, PRONEA S, PRONEA 600i, D1 series and D100 only.

### AF-S Zoom-Nikkor 17-35mm f/2.8D IF-ED (2.1×)



#### *A high-performance, ultra-wideangle zoom lens with SWM*

- Aspherical lenses and ED glass elements
- 0.28m closest focusing throughout zoom range
- M/A mode for quick switching between autofocus and manual focus operation
- Nine-blade rounded diaphragm



Lens construction: 13 elements in 10 groups  
Closest focusing: 0.28m/0.9 ft.  
Filter attachment size: 77mm Hood: HB-23 (provided) Dimensions: 82.5 x 106mm Weight: 745g

### AF Zoom-Nikkor 18-35mm f/3.5-4.5D IF-ED (1.9×)



#### *Portable ultra-wideangle zoom lens*

- Aspherical lenses and ED glass elements
- Focuses down to 0.33m
- IF (Internal Focusing) technology
- Seven-blade rounded diaphragm



Lens construction: 11 elements in 8 groups  
Closest focusing: 0.33m/1.1 ft. Filter attachment size: 77mm Hood: HB-23 (provided) Dimensions: 82.7 x 82.5mm Weight: 370g

### AF Zoom-Nikkor 24-50mm f/3.3-4.5D (2.1×)



#### *Wideangle zoom for landscapes*

- Compact, lightweight wideangle zoom
- Excellent picture quality at every focal length
- Focuses down to 0.5m



Lens construction: 9 elements in 9 groups  
Closest focusing: 0.6m/2 ft. (0.5m/1.6 ft. at macro setting)  
Filter attachment size: 62mm Hood: HB-3 Dimensions: 67.5 x 74.1mm Weight: 355g

### AF Zoom-Nikkor 24-85mm f/2.8-4D IF (3.5×)



#### *High-performance standard zoom lens for landscapes to portraits*

- Fast f/2.8 maximum aperture at 24mm focal length
- Provides maximum 1:2 reproduction ratio from 35-85mm
- Hybrid and moulded-glass aspherical lens elements
- Nine-blade rounded diaphragm



Lens construction: 15 elements in 11 groups  
Closest focusing: 0.5m/1.6 ft. (0.21m/0.7 ft. at macro setting) Filter attachment size: 72mm Hood: HB-25 (provided) Dimensions: 78.5 x 82.5mm Weight: 545g

**AF-S Zoom-Nikkor 24-85mm f/3.5-4.5G IF-ED\* (3.5×)**      

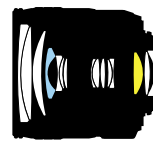


**High-quality G-type standard zoom lens**

- SWM provides super-fast, super-quiet AF operation
- ED glass element
- Hybrid-type aspherical lens element
- M/A mode for quick switching between autofocus and manual focus operation
- IF technology
- Seven-blade rounded diaphragm

 : ED glass elements

 : Aspherical lens elements



Lens construction: 15 elements in 12 groups  
Closest focusing: 0.38m/1.25 ft.  
Filter attachment size: 67mm Hood: HB-28 (provided) Dimensions: Approx. 73 x 72.5mm Weight: Approx. 415g

**AF Zoom-Nikkor 24-120mm f/3.5-5.6D IF (5.0×)**    



**Portable high-power zoom lens**

- Compact, lightweight, versatile 5× zoom lens
- Ideal for travel, landscape and portrait photography
- Hybrid and moulded-glass aspherical lens elements
- IF (Internal Focusing) technology



Lens construction: 15 elements in 11 groups  
Closest focusing: 0.5m/2 ft.  
Filter attachment size: 72mm Hood: HB-11 Dimensions: 79 x 80mm Weight: 550g

**AF-S Zoom-Nikkor 28-70mm f/2.8D IF-ED (2.5×)**       



**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/1.6 ft. at macro setting) Filter attachment size: 77mm Hood: HB-19 (provided) Dimensions: 88.5 x 121.5mm Weight: 935g

**AF Zoom-Nikkor 28-80mm f/3.3-5.6G\* (2.9×)**   



**Portable G-type standard zoom lens**

- Ultracompact and light (195g)
- Hybrid-type aspherical lens element
- Focuses down to 0.35m
- Seven-blade rounded diaphragm



Lens construction: 6 elements in 6 groups  
Closest focusing: 0.35m/1.1 ft.  
Filter attachment size: 58mm Hood: HB-20 Dimensions: 66.5 x 64mm Weight: 195g

**AF Zoom-Nikkor 28-100mm f/3.5-5.6G\* (3.6×)**   



**High-power standard G-type zoom lens with enhanced telephoto capabilities**

- Ultracompact and light (245g)
- Hybrid-type aspherical lens element
- Seven-blade rounded diaphragm
- Super Integrated Coating technology



Lens construction: 8 elements in 6 groups  
Closest Focusing: 0.56m/1.83 ft.  
Filter attachment size: 62mm Hood: HB-27 Dimensions: Approx. 68 x 80mm Weight: Approx. 245g

**AF Zoom-Nikkor 28-105mm f/3.5-4.5D IF (3.8×)**    



**High-performance standard zoom**

- Provides maximum 1:2 reproduction ratio from 50-105mm
- Effective aperture does not vary with focus distance
- Hybrid-type aspherical lens element
- IF (Internal Focusing) technology
- Nine-blade rounded diaphragm



Lens construction: 16 elements in 12 groups  
Closest focusing: 0.5m/1.5 ft. (0.22m/0.7 ft. at macro setting)  
Filter attachment size: 62mm Hood: HB-18 Dimensions: 73 x 81.5mm Weight: 455g

**Note:** Slight vignetting may occur when macro shooting near the maximum 1:2 reproduction ratio at telephoto setting.

\* 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 F5, F100, F80, F65, F60, F55, F50, F-401-series, PRONEA 600i, PRONEA S, D1 series and D100, and the P and S modes of the F4, F90-series, F70, F-801-series and F-601M. Other cameras are not compatible.



## AF Zoom-Nikkor 28-200mm f/3.5-5.6D IF (7.1×)



**Flexible high-power zoom lens for landscapes, portraits, sports...**

- Powerful 7.1× zoom lens
- Compact and lightweight
- Hybrid and moulded glass aspherical lens elements
- IF (Internal Focusing) technology



**Note:** Autofocus may not work properly with the Nikon F-801s camera body. Please contact your local Nikon Service Centre for camera body modification information.

**Lens construction:** 16 elements in 13 groups  
**Closest focusing:** 2m/7 ft. (0.85m-1.5m/2.8 ft.-4.9 ft. at macro setting\*)  
**Filter attachment size:** 72mm **Hood:** HB-12 (Provided) **Dimensions:** 78 x 86.5mm  
**Weight:** 520g

\* 0.85m/2.8 ft. at 28mm or 1.5m/4.9 ft. at 200mm.

## AF Zoom-Nikkor 35-70mm f/2.8D (2.0×)



**High-performance standard zoom for general photography**

- High-speed, standard zoom lens
- Holds its fast f/2.8 maximum aperture over the entire range of focal lengths
- Minimum distortion throughout zoom range



**Lens construction:** 15 elements in 12 groups  
**Closest focusing:** 0.6m/2 ft. (0.28m/0.9 ft. at macro setting) **Filter attachment size:** 62mm  
**Hood:** HB-1 **Dimensions:** 71.5 x 94.5mm  
**Weight:** 665g

## AF-S VR Zoom-Nikkor 70-200mm f/2.8G\* IF-ED (2.9×)

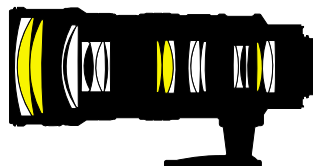


**Compact, lightweight G-type fast telephoto zoom lens with Vibration Reduction**

- 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.

**Note:** VR operation works with the Nikon F5, F100, F80, F65, D1 series and D100



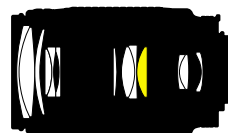
**Lens construction:** 21 elements in 15 groups  
**Closest focusing:** 1.5m/5 ft. **Filter attachment size:** 77mm **Hood:** HB-29 (provided)  
**Dimensions:** 87 x 215mm **Weight:** 1470g (1395g without tripod mounting foot)

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



**High-power, portable telephoto zoom**

- Powerful 4.3× telephoto zoom lens
- ED glass elements ensure superior optical performance
- Rotating zoom ring for precise zoom operation



**Lens construction:** 13 elements in 9 groups  
**Closest focusing:** 1.5m/5 ft. **Filter attachment size:** 62mm **Hood:** HB-15 (Provided)  
**Dimensions:** 74 x 116mm **Weight:** 505g

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



**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  
**Closest focusing:** 1.5m/4.9 ft. **Filter attachment size:** 62mm **Hood:** HB-26 (provided)  
**Dimensions:** 74 x 116.5mm **Weight:** 425g

\* 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 F5, F100, F80, F65, F60, F55, F50, F-401-series, PRONEA 600i, PRONEA S, D1 series and D100, and the P and S modes of the F4, F90-series, F70, F-801-series and F-601M. Other cameras are not compatible.



VR



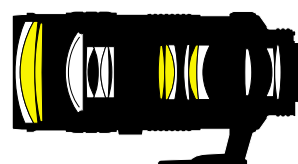
With Vibration Reduction (Exposure data: 1/5.6, 1/8 sec., 300mm setting)   
Without Vibration Reduction (Exposure data: 1/5.6, 1/8 sec., 300mm setting)

## AF-S Zoom-Nikkor 80-200mm f/2.8D IF-ED (2.5×)



### A high-performance telephoto zoom lens with SWM

- SWM provides super-fast, super-quiet AF operation
- Closest focusing distance of 1.5m
- M/A mode for quick switching between autofocus and manual focus operation
- Newly designed optical system for superior optical performance
- Five ED glass elements



Lens construction: 18 elements in 14 groups  
Closest focusing: 1.5m/4.9 ft. Filter attachment size: 77mm Hood: HB-17 (provided)  
Dimensions: 88 x 207mm Weight: 1580g (1450g without tripod collar)

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



### 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: 16 elements in 11 groups  
Closest focusing: 1.8m/6 ft. (1.5m/4.9 ft. at macro setting) Filter attachment size: 77mm Hood: HB-7 Dimensions: 87 x 187mm Weight: 1300g

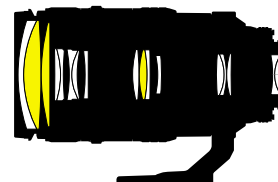
## AF VR Zoom-Nikkor 80-400mm f/4.5-5.6D ED (5×)



### 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

\* As determined by Nikon performance tests.  
Note: VR operation works with the Nikon F5, F100, F80, F65, D1 series and D100



Lens construction: 17 elements in 11 groups  
Closest focusing: 2.3m/7.5 ft. Filter attachment size: 77mm Hood: HB-24 (provided)  
Dimensions: 91 x 171mm Weight: 1340g (1210g without tripod mounting foot)

*John Shaw*

John Shaw

“For years I’ve carried Nikon wideangle lenses for two very simple reasons: I know the **image quality** will be the **very best** possible, and for a working pro **like myself**, there is no substitute.”



AF Nikkor 35mm f/2D © John Shaw

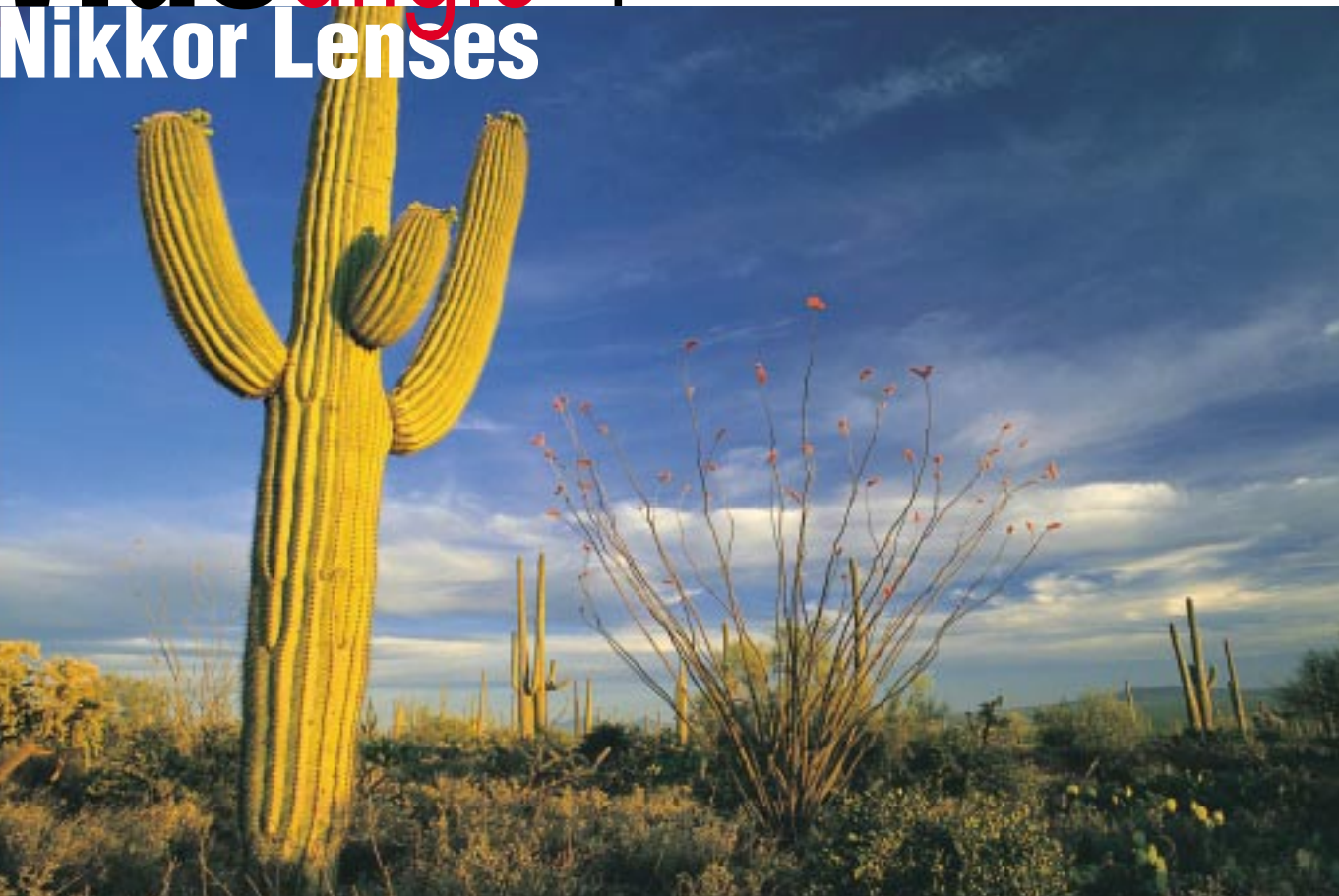
# AF **N**ormal Nikkor Lenses

“**I** always come back to it because it is the **closest** lens to using my **eyes**.”

Darcy Padilla

*Darcy Padilla*

# Fisheye & **W**ide angle AF Nikkor Lenses



AF Nikkor 24mm f/2.8D © John Shaw



## Wideangle and Normal AF Nikkors — distinguishing features

**W**ideangle 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** and **18mm f/2.8D** offer the widest views, while the **28mm f/1.4D** is the fastest of the group, making it especially useful when shooting in dim light.

**F**or 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.



AF Nikkor 50mm f/1.4D © Darcy Padilla

AF Nikkor 50mm f/1.4D © Conrad Godly



AF Nikkor 50mm f/1.4D © Samuel Zuder



AF Fisheye-Nikkor 16mm f/2.8D © Joe McNally

For **expansive views**  
and **natural** perspectives

Nikon's wideangle Nikkor lenses deliver superior performance for a variety of photographic purposes. From 14mm ultra-wideangle to standard 35mm, they offer a large picture angle, impressive depth of field and fast optics.

There are also two normal lenses that provide exquisite optics and speed — great for landscapes, candid shots and portraits, to name a few.

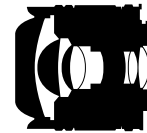
### AF Fisheye-Nikkor 16mm f/2.8D



#### *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

### AF **Fisheye** Nikkor Lenses



Lens construction: 8 elements in 5 groups **Closest focusing:** 0.25m/0.85 ft. **Filter (provided):** L37C, A2, B2, O56 **Hood:** Built-in **Dimensions:** 63 x 57mm **Weight:** 290g

### AF Nikkor 14mm f/2.8D ED



#### *High-performance, ultra -wideangle lens for photo journalism*

- Hybrid aspherical lens elements and ED glass element
- Used as 21mm (converted to 135 format) lens when attached to the Nikon D1 series
- RF (rear focusing) system

### AF **Wideangle** Nikkor Lenses



Lens construction: 14 elements in 12 groups **Closest focusing:** 0.2m/0.66 ft. **Built-in gelatine filter holder:** provided at rear of lens **Hood:** Built-in **Dimensions:** 87 x 86.5mm **Weight:** 670g

### AF Nikkor 18mm f/2.8D



#### *Ultra-wideangle for architectural and scenic photography*

- Compact ultra-wideangle lens with a 100° picture angle
- Moulded-glass aspherical lens and rear-focusing system ensures superior optical performance
- Superb centre-to-edge sharpness
- Advanced optical system minimises coma even at maximum aperture



Lens construction: 13 elements in 10 groups **Closest focusing:** 0.25m/0.85 ft. **Filter attachment size:** 77mm **Hood:** HB-8 (Provided) **Dimensions:** 82 x 58mm **Weight:** 380g

### 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



Lens construction: 12 elements in 9 groups **Closest focusing:** 0.25m/0.85 ft. **Filter attachment size:** 62mm **Hood:** HB-4 **Dimensions:** 69 x 42.5mm **Weight:** 270g

## AF Nikkor 24mm f/2.8D



### *Superb wideangle for landscapes or candid*

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

 : ED glass elements  
 : Aspherical lens elements



Lens construction: 9 elements in 9 groups  
Closest focusing: 0.3m/1 ft.  
Filter attachment size: 52mm Hood: HN-1  
Dimensions: 64.5 x 46mm Weight: 270g

## AF Nikkor 28mm f/1.4D



### *Fast lens for landscapes and dimly lit situations indoors or out*

- Fast, f/1.4 wideangle lens
- Ideal for low-light photography
- Precision-ground aspherical lens element
- Close-Range Correction (CRC) system



Lens construction: 11 elements in 8 groups  
Closest focusing: 0.35m/1.15 ft.  
Filter attachment size: 72mm Hood: HK-7  
Dimensions: 75 x 77.5mm Weight: 520g

## 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. Filter attachment size: 52mm Hood: HN-2  
Dimensions: 65 x 44.5mm Weight: 205g

## 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



Lens construction: 6 elements in 5 groups  
Closest focusing: 0.25m/0.85 ft. Filter attachment size: 52mm Hood: HN-3  
Dimensions: 64.5 x 43.5mm Weight: 205g



AF Nikkor 28mm f/1.4D © John Shaw

## 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 colour rendition
- Provides high-contrast images even at maximum aperture



Lens construction: 7 elements in 6 groups  
Closest focusing: 0.45m/1.5 ft.  
Filter attachment size: 52mm Hood: HR-2  
Dimensions: 64.5 x 42.5mm Weight: 230g

## AF Nikkor 50mm f/1.8D



### *Portable normal lens*

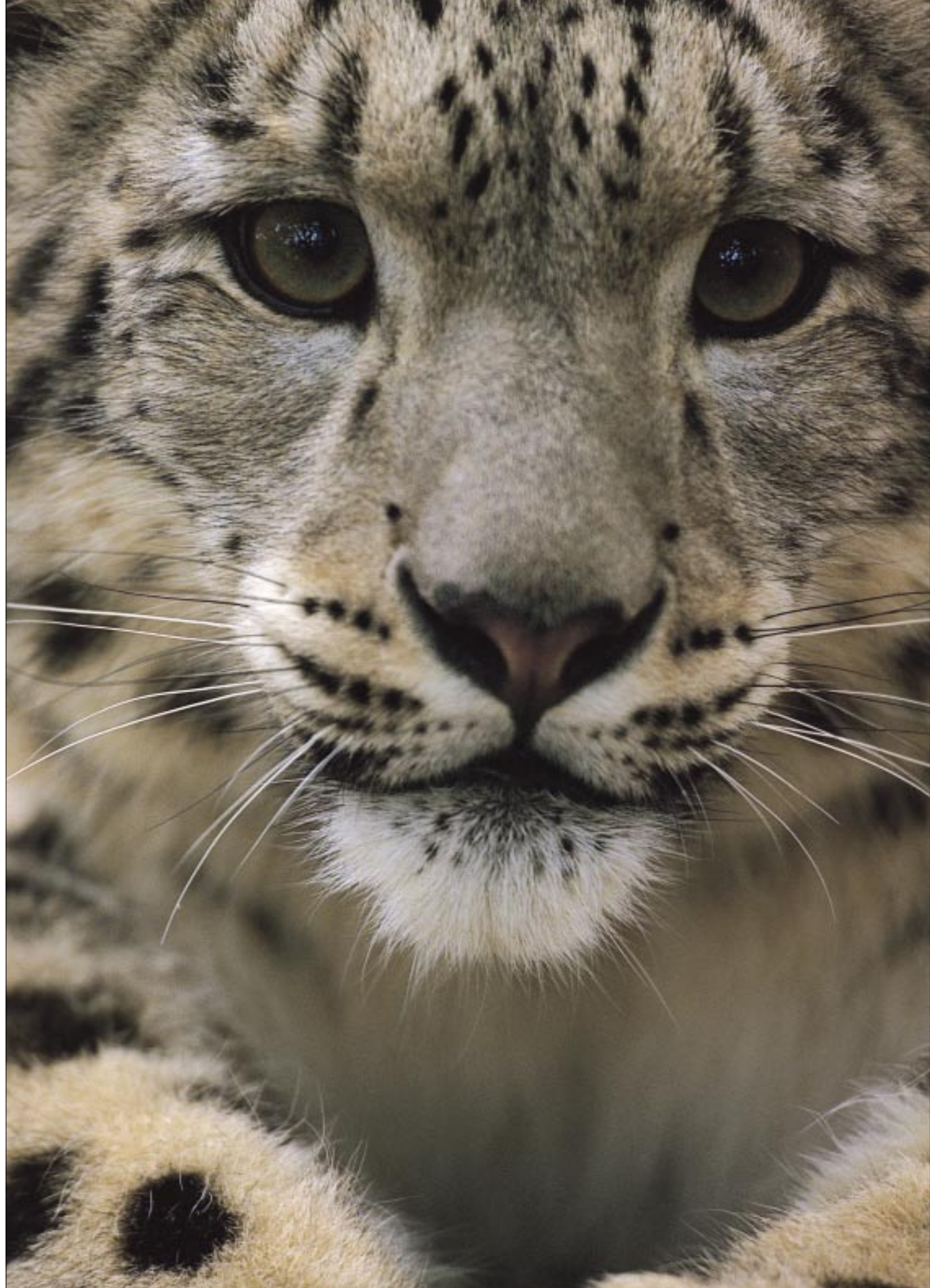
- Compact, affordable normal lens
- Lightweight (155g)
- Great depth-of-field control — stops down to f/22
- Ideal for close-up photography with an auto extension ring



Lens construction: 6 elements in 5 groups  
Closest focusing: 0.45m/1.5 ft.  
Filter attachment size: 52mm Hood: HR-2  
Dimensions: 63.5 x 39mm Weight: 155g

AF **Normal**  
Nikkor Lenses



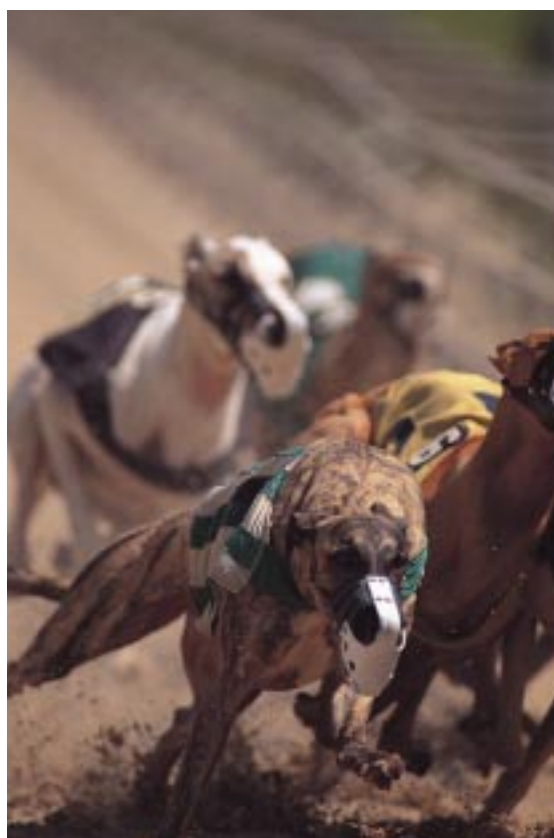


# Telephoto AF Nikkor Lenses

(DC-Nikkors, AF-S Nikkors, AF-S & AF-I Teleconverters)

“The Nikkor **300mm f/2.8 AF-S** lens is the single most important lens in my bag. With extenders I can use it to photograph wildlife far away without loss of quality but I also use it for close-ups when animals are too nervous to allow me to use a shorter lens. That was the case with the snow leopard. It was a captive individual but even captive cats get annoyed when you get too close to them and stare them in the face. The 300mm f/2.8 was a perfect solution.”

Frans Lanting



Telephoto AF  
Nikkors — distin-  
guishing features

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, F100, F90X, F90, F80, F70, F65, PRONEA S, PRONEA 600i and D1 series 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-blade diaphragm built into the lenses creates a rounded out-of-focus blur that is ideal for portraits.

Nikon also offers **AF-S & AF-I Teleconverters** designed exclusively for Nikkor AF-S and AF-I lenses. The **TC-14E II/14E** increases the focal length of your Nikkor telephoto lens by 40%, while the **TC-20E II/20E** transforms a 300mm telephoto lens, for example, into a 600mm supertelephoto — thus doubling your telephoto power.

AF-S Nikkor 300mm f/2.8D IF-ED II © Frans Lanting  
AF-S Nikkor 600mm f/4D IF-ED II © Joe McNally





AF Nikkor 180mm f/2.8D IF-ED © Yu Yuntian

The **muscle** and **speed** to bring **distant scenes** up close

When you need the power to pull distant scenes up close, focus quickly and get the shot, Nikkor telephoto lenses do the job — and then some. There's nothing better for making dynamic sports or action shots that fill the entire frame, or making your subject stand out against the background for real impact. And with Nikkor, you've got an exceptional array of lenses to choose from.

Create **dramatic sports, wildlife, portrait** photographs and **everything** in between.

## Telephoto AF Nikkor Lenses

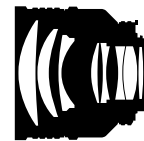
### AF Nikkor 85mm f/1.4D IF IF D SC



*The fastest Nikkor telephoto — great for indoor portraits*

- High-performance medium telephoto lens
- Fast maximum aperture of f/1.4
- IF (Internal Focusing) technology for fast AF operation
- Rounded diaphragm opening makes out-of-focus elements appear more natural

- : ED glass elements
- : Aspherical lens elements



Lens construction: 9 elements in 8 groups  
Closest focusing: 0.85m/3 ft. Filter attachment size: 77mm Hood: HN-31 (Provided)  
Dimensions: 80 x 72.5mm Weight: 550g

### AF Nikkor 85mm f/1.8D RF D SC



*Portable medium telephoto — ideal for portraits*

- High-speed telephoto lens
- RF (rear focus) technology for fast AF operation
- Very compact and light
- Ideal for indoor or outdoor portrait shooting



Lens construction: 6 elements in 6 groups  
Closest focusing: 0.85m/3 ft. Filter attachment size: 62mm Hood: HN-23 (Provided)  
Dimensions: 71.5 x 58.5mm Weight: 380g

### AF Nikkor 180mm f/2.8D IF-ED ED IF D SC



*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



Lens construction: 8 elements in 6 groups  
Closest focusing: 1.5m/5 ft. Filter attachment size: 72mm Hood: Built-in  
Dimensions: 78.5 x 144mm Weight: 760g



**AF Nikkor 300mm f/2.8 IF-ED**   



**High-performance telephoto for sports and fast-action shooting**

- High-performance, high-speed 300mm telephoto lens
- Optimum balance and operation even when focusing manually
- ED glass elements
- IF (Internal Focusing) technology



Lens construction: 8 elements in 6 groups  
Closest focusing: 3m/10 ft. Filter attachment size: 39mm Hood: Built-in, HE-6 (Provided) Dimensions: 133 x 255mm  
Weight: 2700g

Creative focusing control for exceptional portraits.



**AF DC**  
Nikkor Lenses

AF DC-Nikkor 105mm f/2D  
© Conrad Godly

**AF DC-Nikkor 105mm f/2D**    



**Standard portrait lens with Defocus-image Control**

- Fast, medium telephoto lens with Defocus-image Control
- Large maximum aperture allows shooting in dim light
- Rounded diaphragm opening makes out-of-focus elements appear more natural
- RF (rear focus) technology for fast AF operation



Lens construction: 6 elements in 6 groups  
Closest focusing: 0.9m/3 ft. Filter attachment size: 72mm Hood: Built-in  
Dimensions: 79 x 111mm Weight: 640g

**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
- Rounded diaphragm opening makes out-of-focus elements appear more natural
- RF (rear focus) technology for fast AF operation



Lens construction: 7 elements in 6 groups  
Closest focusing: 1.1m/4 ft. Filter attachment size: 72mm Hood: Built-in  
Dimensions: 79 x 120mm Weight: 815g



AF-S Nikkor 400mm f/2.8D IF-ED II © Dave Black



AF-S Nikkor 500mm f/4D IF-ED II © John Shaw

## AF-S Nikkor Lenses

### AF-S Nikkor 300mm f/2.8D IF-ED II



#### *Telephoto lens with SWM for serious sport photographers*

- Magnesium alloy ensures lightweight body
- High optical performance even with a teleconverter attached
- ED glass elements
- M/A mode
- Focuses down to 2.3m (2.2m for MF)
- Nine-blade rounded diaphragm



**Lens construction:** 11 elements in 8 groups  
**Closest focusing:** 2.3m/7.5 ft. (2.2m/7.2 ft. in MF)\* **Filter attachment size:** 52mm  
**Hood:** HK-26 (Provided) **Dimensions:** 124 x 268.5mm **Weight:** 2560g  
 \* At normal temperature

### AF-S Nikkor 300mm f/4D IF-ED



#### *A light, compact AF-S telephoto lens*

- High optical performance even with a teleconverter attached
- ED glass elements
- 1.45m closest focusing
- M/A mode allows rapid switching between autofocus and manual operation
- Nine-blade rounded diaphragm



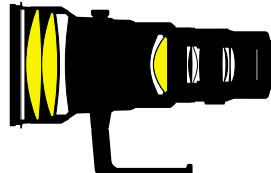
**Lens construction:** 10 elements in 6 groups  
**Closest focusing:** 1.45m/4.8 ft. **Filter attachment size:** 77mm **Hood:** Built-in **Dimensions:** 90 x 222.5mm **Weight:** 1440g (1300g without tripod mounting foot)

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



#### *Compact, high-performance supertelephoto*

- 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:** 11 elements in 9 groups  
**Closest focusing:** 3.5m/11.5 ft. (3.4m/11.2 ft. in MF)\* **Filter attachment size:** 52mm **Hood:** HK-25 (Provided) **Dimensions:** 159.5 x 351.5mm **Weight:** 4440g  
 \* At normal temperature

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

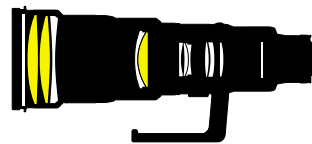
ED IF D SWM M/A SG



### Powerful supertelephoto with SWM

- Magnesium alloy ensures lightweight body
- ED glass elements
- M/A mode allows rapid switching between autofocus and manual focus operation
- Nine-blade rounded diaphragm

■ ED glass elements  
■ Aspherical lens elements



**Lens construction:** 11 elements in 9 groups  
**Closest focusing:** 4.6m/15.1 ft.  
(4.4m/14.4 ft. in MF)\* **Filter attachment size:** 52mm **Hood:** HK-24 (Provided)  
**Dimensions:** 139.5 x 394mm  
**Weight:** 3430g

\* At normal temperature

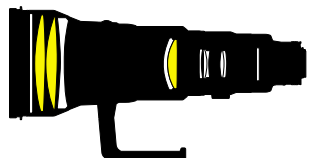
## AF-S Nikkor 600mm f/4D IF-ED II

ED IF D SWM M/A SG



### 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
- Perfect for sports and fast-action photography
- Nine-blade rounded diaphragm



**Lens construction:** 10 elements in 7 groups  
**Closest focusing:** 5.6m/18.4 ft.  
(5.4m/17.7 ft. in MF)\* **Filter attachment size:** 52mm **Hood:** HK-23 **Dimensions:** 166 x 430.5mm **Weight:** 4750g

\* At normal temperature

A Simple way to  
boost the power  
of your  
**AF-S Nikkor.**



AF-S Nikkor 400mm f/2.8D IF-ED II with TC-14E II © John Shaw

## AF-S & AF-I Teleconverters

### Note:

AF-S and AF-I Teleconverters are compatible with AF-S and AF-I Nikkor lenses except AF-S 17-35mm f/2.8D IF-ED, AF-S 24-85mm f/3.5-4.5G IF-ED and AF-S 28-70mm f/2.8D IF-ED.

## AF-S Teleconverter TC-14E II



- New cosmetic design matches the latest AF-S Nikkor lenses
- Increases the original focal length by 40%
- Reduces lens aperture by one f-stop
- Autofocus possible with AF-S and AF-I Nikkor lenses
- New Front Cap BF-3A (can be used as body cap)

**Lens construction:** 5 elements in 5 groups  
**Dimensions:** 66 x 24.5mm  
**Weight:** 200g

## AF-S Teleconverter TC-20E II



- New cosmetic design matches the latest AF-S Nikkor lenses
- Increases the 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
- New Front Cap BF-3A (can be used as body cap)

**Lens construction:** 7 elements in 6 groups  
**Dimensions:** 66 x 55mm  
**Weight:** 355g

## AF-I Teleconverter TC-14E



- Designed for AF-S and AF-I Nikkor lenses
- Increases the original focal length by 40%
- Reduces lens aperture by one f-stop
- Autofocus possible with AF-S and AF-I Nikkor lenses

**Lens construction:** 5 elements in 5 groups  
**Dimensions:** 66 x 24.5mm  
**Weight:** 200g

## AF-I Teleconverter TC-20E



- Designed for AF-S and AF-I Nikkor lenses
- Increases the 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

**Lens construction:** 7 elements in 6 groups  
**Dimensions:** 66 x 55mm  
**Weight:** 355g



# AF Micro- and

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



AF Micro-Nikkor 105mm f/2.8D © Conrad Godly

PC Micro-Nikkor 85mm f/2.8D (with tilting) © N. Yuasa



PC Micro-Nikkor 85mm f/2.8D (without tilting) © N. Yuasa

# PC Micro-Nikkor Lenses

“In addition to the **exquisite sharpness** (a feature of all Micro-Nikkors), the 200mm AF Micro offers me almost four times the working distance of a 60mm Micro. The narrow angle of view is a **great aid** for simplifying backgrounds.”

*Rod Planck*

Rod Planck

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 colour reproduction.

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

The **AF Zoom Micro-Nikkor 70-180mm f/4.5-5.6D ED** adds remarkable flexibility to close-up photography. Aside from the obvious versatility of multiple focal lengths, this lens allows you to adjust perspective and reproduction ratios up to 1:1.3 as you zoom. The Optics Design Research Group of the Optics Society of Japan selected this lens as the Best Lens of 1998.

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.

For absolute **clarity** and **sharpness** of detail.

### 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. 22cm (1:1 reproduction ratio)
- Close-Range Correction (CRC) system provides high performance at both near and far focusing distances

 : ED glass elements  
 : Aspherical lens elements



Lens construction: 8 elements in 7 groups  
 Closest focusing: 0.219m (8-3/4 in.)  
 Working distance\*: 90.4mm Filter attachment size: 62mm Hood: HN-22  
 Dimensions: 70 x 74.5mm Weight: 440g

### AF Micro-Nikkor 105mm f/2.8D



#### *Medium telephoto Micro lens for close-up and candid photography*

- Versatile medium telephoto lens for portrait and detail work
- Close-up to approx. 31cm (1:1 reproduction ratio)
- Close-Range Correction (CRC) system



Lens construction: 9 elements in 8 groups  
 Closest focusing: 0.314m (1 ft.)  
 Working distance\*: 136mm  
 Filter attachment size: 52mm Hood: HS-7  
 Dimensions: 75 x 104.5mm Weight: 560g

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



#### *Telephoto Micro lens for close-ups and nature photography*

- Extremely versatile telephoto lens with long working distance
- Close-up to approx. 50cm (1:1 reproduction ratio)
- 26cm working distance for easy close-ups
- Close-Range Correction (CRC) system
- Nine-blade rounded diaphragm
- ED glass elements



Lens construction: 13 elements in 8 groups  
 Closest focusing: 0.5m (1-5/8 ft.)  
 Working distance\*: 260mm  
 Filter attachment size: 62mm Hood: HN-30  
 Dimensions: 76 x 193mm Weight: 1190g

### AF Zoom-Micro Nikkor 70-180mm f/4.5-5.6D ED



#### *The world's first AF zoom lens for macro photography*

- Versatile telephoto zoom lens for macro photography
- Close-ups to approx. 37cm (1:1.3 reproduction ratio)
- Effective aperture does not vary with focus distance
- Nine-blade rounded diaphragm
- ED glass element
- Even life-size (1:1) magnification is possible with close-up attachment lens No. 6T (at 180mm)



Lens construction: 18 elements in 14 groups  
 Closest focusing: 0.37m (1.2 ft.)  
 Working distance\*: 112.4mm  
 Filter attachment size: 62mm Hood: HB-14 (Provided) Dimensions: 75 x 167mm  
 Weight: 1010g

**Note:** When using Matrix or Centre-Weighted Metering with this lens attached to F4-series cameras, set the exposure compensation dial for focusing screens to -1/2.

### PC Micro-Nikkor 85mm f/2.8D



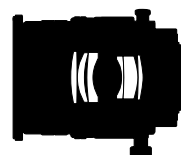
#### *85mm medium telephoto lens with tilt/shift mechanism and macro capability*

- Wide tilting and shifting range (tilt:  $\pm 8.3^\circ$ , shift:  $\pm 12.4$ mm)
- 1/2 life-size macro shooting capability (at 0.39m)
- $\pm 90^\circ$  lens revolving capability for versatile tilt/shift effects.

**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 S camera.



Only the subject's face is in focus. (with tilting)



Lens construction: 6 elements in 5 groups  
 Closest focusing: 0.39m (1.3 ft.)  
 Working distance\*: 210mm  
 Filter attachment size: 77mm Hood: HB-22  
 Dimensions: 83.5 x 109.5mm  
 Weight: 770g

**\*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.



# Choosing <sup>the</sup> 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.



16mm



20mm



24mm



28mm



35mm



50mm



105mm



135mm



180mm



210mm



300mm



600mm

**Picture angle** Picture angle refers to the view or image area the lens provides, and different picture angles can dramatically affect the way you view the world through your lens.

Basically, it is the focal length of the lens that determines the picture angle — the shorter the focal length, the wider

the picture angle and the smaller the image size. A longer 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 favourite lenses 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.



20mm



50mm



200mm



400mm

**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.

**Maximum aperture (f-number)** The maximum aperture of the lens can determine how and in what lighting situations you can shoot. Aperture value is indicated by f-number which can be expressed in various ways: f/8, F8 and 1:8, for example, all refer to the same effective aperture. Lenses with large maximum apertures

(smaller f-numbers) are 'fast' lenses that allow photographers to use faster shutter speeds in dim light. This minimises the need for a tripod or flash, allows greater depth-of-field control (see below) and offers a brighter image through the lens finder for easier focusing.

Lenses with smaller maximum aper-

tures (larger f-numbers) allow the use of lower shutter speeds for available light but are also lighter and smaller than faster lenses. Nikon offers some Nikkor lenses with equal focal lengths, but different maximum apertures to give you a variety from which to choose.

**Depth of field** This term refers to the areas of the photograph — both in front of and behind the main subject — that are acceptably sharp. You can adjust depth of field by adjusting the lens aperture. The smaller the aperture (larger f-number) gives you a greater depth of field. This means that shooting at larger apertures like f/1.8 will make the background appear blurred, while using small apertures like f/16 or f/22

will result in a picture where much of the scene is in sharp focus.

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.



Great depth of field (f/16)



Shallow depth of field (f/2.8)



# Specifications

| Lens                                      | Lens Construction<br>(groups/<br>elements) | Picture Angle | Minimum f/Stop | Closest Marked Focus Distance<br>[Macro Setting]<br>m (ft.) | Maximum Reproduction Ratio<br>[Macro Setting] | Filter Attachment Size (mm) | Lens Case             | Lens Hood      | Weight (g) | Dia. x Length<br>(extension from lens mount)<br>(mm) | TC-201 | TC-301 | TC-14A | TC-14B | TC-14E/14E II | TC-20E II | Max. number of AF-3 hoods usable | Max. number of AF-4 hoods usable |   |   |
|-------------------------------------------|--------------------------------------------|---------------|----------------|-------------------------------------------------------------|-----------------------------------------------|-----------------------------|-----------------------|----------------|------------|------------------------------------------------------|--------|--------|--------|--------|---------------|-----------|----------------------------------|----------------------------------|---|---|
| Zoom                                      |                                            |               |                |                                                             |                                               |                             |                       |                |            |                                                      |        |        |        |        |               |           |                                  |                                  |   |   |
| AF-S 17-35/2.8D IF-ED                     | 10/13                                      | 104°-62°      | 22             | 0.28 (0.9)                                                  | 1/4.6                                         | 77                          | CL-S3, CL-76          | HB-23          | 745        | 82.5 x 106                                           | ①      | —      | ①      | —      | —             | —         | ✓ <sup>NC</sup>                  | 0                                | ✓ | 0 |
| AF 18-35/3.5-4.5D IF-ED                   | 8/11                                       | 100°-62°      | 22             | 0.33 (1.1)                                                  | 1/6.7                                         | 77                          | CL-S1                 | HB-23          | 370        | 82.7 x 82.5                                          | ①      | —      | ①      | —      | —             | —         | ✓ <sup>NC</sup>                  | 0                                | ✓ | 0 |
| AF 24-50/3.3-4.5D                         | 9/9                                        | 84°-46°       | 22             | 0.6 (2) [0.5 (1.6)]                                         | 1/10.6 [1/8.5]                                | 62                          | CL-S1, CL-17, CL-32S  | HB-3           | 355        | 67.5 x 74.1                                          | ①      | —      | ①      | —      | —             | —         | ✓                                | 0                                | ✓ | 0 |
| AF 24-85/2.8-4D IF                        | 11/15                                      | 84°-28°30'    | 22             | 0.5 (1.6) [0.21 (0.7)]                                      | 1/5.9 [1/2]                                   | 72                          | CL-S1                 | HB-25          | 545        | 78.5 x 82.5                                          | ①      | —      | ①      | —      | —             | —         | ✓ <sup>NC</sup>                  | 0                                | ✓ | 0 |
| AF-S 24-85/3.5-4.5G IF-ED                 | 12/15                                      | 84°-28°30'    | 22             | 0.38 (1.25)                                                 | 1/4.7                                         | 67                          | CL-S2                 | HB-28          | 415        | 73 x 72.5                                            | —      | —      | —      | —      | —             | —         | ✓                                | 0                                | ✓ | 0 |
| AF 24-120/3.5-5.6D IF                     | 11/15                                      | 84°-20°30'    | 22             | 0.5 (2)                                                     | 1/4.8                                         | 72                          | CL-S1, CL-49          | HB-11          | 550        | 79 x 80                                              | ①      | —      | ①      | —      | —             | —         | ✓                                | 0                                | ✓ | 0 |
| AF-S 28-70/2.8D IF-ED                     | 11/15                                      | 74°-34°20'    | 22             | 0.7 (2.3) [0.5 (1.7)]                                       | 1/8.6 [1/5.6]                                 | 77                          | CL-S1, CL-32S         | HB-19          | 935        | 88.5 x 121.5                                         | ④      | —      | ④      | —      | —             | —         | ✓ <sup>NC</sup>                  | 0                                | ✓ | 0 |
| AF 28-80/3.3-5.6G                         | 6/6                                        | 74°-30°10'    | 38             | 0.35 (1.1)                                                  | 1/3.4                                         | 58                          | CL-S1, CL-32S         | HB-20          | 195        | 66.5 x 64                                            | —      | —      | —      | —      | —             | —         | ✓                                | 0                                | ✓ | 0 |
| AF 28-100/3.5-5.6G                        | 6/8                                        | 74° -24°20'   | 22             | 0.56 (1.8)                                                  | 1/4.8                                         | 62                          | CL-S2, CL-32S         | HB-27          | 245        | 68 x 80                                              | —      | —      | —      | —      | —             | —         | ✓                                | 0                                | ✓ | 0 |
| AF 28-105/3.5-4.5D IF                     | 12/16                                      | 74°-23°20'    | 22             | 0.5 (1.7) [0.22 (0.7)]                                      | 1/5.2 [1/2]                                   | 62                          | CL-S2, CL-49          | HB-18          | 455        | 73 x 81.5                                            | ①      | —      | ①      | —      | —             | —         | ✓                                | 0                                | ✓ | 0 |
| AF 28-200/3.5-5.6D IF                     | 13/16                                      | 74°-12°20'    | 22             | 2 (7)<br>[0.85-1.5 (2.8-4.9)**]                             | 1/12.7<br>[1/9.9]                             | 72                          | CL-S3, CL-49          | HB-12          | 520        | 78 x 86.5                                            | ①      | —      | ①      | —      | —             | —         | ✓ <sup>NC</sup>                  | 0                                | ✓ | 0 |
| AF 35-70/2.8D                             | 12/15                                      | 62°-34°20'    | 22             | 0.6 (2) [0.28 (0.9)]                                        | 1/7.7 [1/4]                                   | 62                          | CL-S2, CL-33S         | HB-1           | 665        | 71.5 x 94.5                                          | ①      | —      | ①      | —      | —             | —         | ✓                                | 1                                | ✓ | 2 |
| AF-S VR 70-200/2.8G IF-ED                 | 15/21                                      | 34°20'-12°20' | 22             | 1.5 (5)                                                     | 1/6.1                                         | 77                          | CL-M2                 | HB-29          | 1470       | 87 x 215                                             | —      | —      | —      | —      | ①             | ①         | ✓                                | 0                                | ✓ | 2 |
| AF 70-300/4-5.6D ED                       | 9/13                                       | 34°20'-8°10'  | 32             | 1.5 (5)                                                     | 1/3.9                                         | 62                          | CL-S4, CL-72          | HB-15          | 505        | 74 x 116                                             | ①      | —      | ①      | —      | —             | —         | ✓                                | 3                                | ✓ | 4 |
| AF 70-300/4-5.6G                          | 9/13                                       | 34°20'-8°10'  | 32             | 1.5 (4.9)                                                   | 1/3.9                                         | 62                          | CL-S4, CL-72          | HB-26          | 425        | 74 x 116.5                                           | —      | —      | —      | —      | —             | —         | ✓                                | 3                                | ✓ | 4 |
| AF-S 80-200/2.8D IF-ED <sup>*1</sup>      | 14/18                                      | 30°10'-12°20' | 22             | 1.5 (4.9)                                                   | 1/6.3                                         | 77                          | CL-M2, CL-73          | HB-17          | 1580       | 88 x 207                                             | ④      | —      | —      | ①      | ②             | ②         | ✓ <sup>NC</sup>                  | 0                                | ✓ | 2 |
| AF 80-200/2.8D ED <sup>*1</sup>           | 11/16                                      | 30°10'-12°20' | 22             | 1.8 (6) [1.5 (4.9)]                                         | 1/7.1 [1/5.9]                                 | 77                          | CL-M2, CL-43A         | HB-7           | 1300       | 87 x 187                                             | ④      | —      | ④      | ①      | —             | —         | ✓                                | 0                                | ✓ | 3 |
| AF VR 80-400/4.5-5.6D ED <sup>*1</sup>    | 11/17                                      | 30°10'-6°10'  | 32             | 2.3 (7.5)                                                   | 1/4.8                                         | 77                          | CL-M1                 | HB-24          | 1340       | 91 x 171                                             | ④      | —      | ④      | —      | —             | —         | ✓                                | 2                                | ✓ | 3 |
| Fisheye                                   |                                            |               |                |                                                             |                                               |                             |                       |                |            |                                                      |        |        |        |        |               |           |                                  |                                  |   |   |
| AF Fisheye 16/2.8D                        | 5/8                                        | 180°          | 22             | 0.25 (0.85)                                                 | 1/10                                          | Provided                    | CL-S1, CL-31S         | Built-in       | 290        | 63 x 57                                              | ①      | —      | ①      | —      | —             | —         | Not usable                       |                                  |   |   |
| Wideangle                                 |                                            |               |                |                                                             |                                               |                             |                       |                |            |                                                      |        |        |        |        |               |           |                                  |                                  |   |   |
| AF 14/2.8D ED                             | 12/14                                      | 114°          | 22             | 0.2 (0.66)                                                  | 1/6.5                                         | Provided                    | CL-S2                 | Built-in       | 670        | 87 x 86.5                                            | ①      | —      | ①      | —      | —             | —         | Not usable                       |                                  |   |   |
| AF 18/2.8D                                | 10/13                                      | 100°          | 22             | 0.25 (0.85)                                                 | 1/9.1                                         | 77                          | CL-S1, CL-47          | HB-8           | 380        | 82 x 58                                              | ①      | —      | ①      | —      | —             | —         | ✓ <sup>a</sup>                   | 0                                | ✓ | 0 |
| AF 20/2.8D                                | 9/12                                       | 94°           | 22             | 0.25 (0.85)                                                 | 1/8.3                                         | 62                          | CL-S1, CL-30S, CL-37  | HB-4           | 270        | 69 x 42.5                                            | ①      | —      | ①      | —      | —             | —         | ✓ <sup>b</sup>                   | 0                                | ✓ | 0 |
| AF 24/2.8D                                | 9/9                                        | 84°           | 22             | 0.3 (1)                                                     | 1/8.9                                         | 52                          | CL-S1, CL-30S, CL-34A | HN-1           | 270        | 64.5 x 46                                            | ①      | —      | ①      | —      | —             | —         | ✓                                | 0                                | ✓ | 1 |
| AF 28/1.4D                                | 8/11                                       | 74°           | 16             | 0.35 (1.15)                                                 | 1/8.3                                         | 72                          | CL-S1, CL-44          | HK-7           | 520        | 75 x 77.5                                            | ①      | —      | ①      | —      | —             | —         | ✓                                | 0                                | ✓ | 1 |
| AF 28/2.8D                                | 6/6                                        | 74°           | 22             | 0.25 (0.85)                                                 | 1/5.6                                         | 52                          | CL-S1, CL-30S, CL-34A | HN-2           | 205        | 65 x 44.5                                            | ①      | —      | ①      | —      | —             | —         | ✓                                | 0                                | ✓ | 1 |
| AF 35/2D                                  | 5/6                                        | 62°           | 22             | 0.25 (0.85)                                                 | 1/4.2                                         | 52                          | CL-S1, CL-30S         | HN-3           | 205        | 64.5 x 43.5                                          | ①      | —      | ①      | —      | —             | —         | ✓                                | 0                                | ✓ | 2 |
| Normal                                    |                                            |               |                |                                                             |                                               |                             |                       |                |            |                                                      |        |        |        |        |               |           |                                  |                                  |   |   |
| AF 50/1.4D                                | 6/7                                        | 46°           | 16             | 0.45 (1.5)                                                  | 1/6.8                                         | 52                          | CL-S1, CL-30S         | HR-2           | 230        | 64.5 x 42.5                                          | ③      | —      | ③      | —      | —             | —         | ✓                                | 1                                | ✓ | 3 |
| AF 50/1.8D                                | 5/6                                        | 46°           | 22             | 0.45 (1.5)                                                  | 1/6.6                                         | 52                          | CL-S1, CL-30S         | HR-2           | 155        | 63.5 x 39                                            | ①      | —      | ①      | —      | —             | —         | ✓                                | 1                                | ✓ | 3 |
| Telephoto                                 |                                            |               |                |                                                             |                                               |                             |                       |                |            |                                                      |        |        |        |        |               |           |                                  |                                  |   |   |
| AF 85/1.4D IF                             | 8/9                                        | 28°30'        | 16             | 0.85 (3)                                                    | 1/8.8                                         | 77                          | CL-S1, CL-44          | HN-31          | 550        | 80 x 72.5                                            | ①      | —      | ①      | —      | —             | —         | ✓                                | 1                                | ✓ | 3 |
| AF 85/1.8D                                | 6/6                                        | 28°30'        | 16             | 0.85 (3)                                                    | 1/9.2                                         | 62                          | CL-S1, CL-15S, CL-31S | HN-23          | 380        | 71.5 x 58.5                                          | ①      | —      | ⑤      | —      | —             | —         | ✓                                | 2                                | ✓ | 4 |
| AF DC 105/2D                              | 6/6                                        | 23°20'        | 16             | 0.9 (3)                                                     | 1/7.7                                         | 72                          | CL-S3, CL-38          | Built-in       | 640        | 79 x 111                                             | —      | —      | —      | —      | —             | —         | ✓                                | 1                                | ✓ | 5 |
| AF DC 135/2D                              | 6/7                                        | 18°           | 16             | 1.1 (4)                                                     | 1/7.1                                         | 72                          | CL-S4, CL-38          | Built-in       | 815        | 79 x 120                                             | —      | —      | —      | ①      | —             | —         | ✓                                | 1                                | ✓ | 4 |
| AF 180/2.8D IF-ED                         | 6/8                                        | 13°40'        | 22             | 1.5 (5)                                                     | 1/6.6                                         | 72                          | CL-S4, CL-38          | Built-in       | 760        | 78.5 x 144                                           | ④      | —      | ④      | —      | —             | —         | ✓                                | 5                                | ✓ | 5 |
| AF 300/2.8 IF-ED <sup>*1</sup>            | 6/8                                        | 8°10'         | 22             | 3 (10)                                                      | 1/7.0                                         | 39                          | CT-303                | Built-in, HE-6 | 2700       | 133 x 255                                            | ④      | ①      | ④      | ①      | —             | —         | Not usable                       |                                  |   |   |
| AF-S 300/2.8D IF-ED II <sup>*1</sup>      | 8/11                                       | 8°10'         | 22             | 2.3 (7.5)                                                   | 1/6.2                                         | 52                          | CT-305, CL-L1         | HK-26          | 2560       | 124 x 268.5                                          | —      | ①      | —      | ①      | ②             | ②         | Not usable                       |                                  |   |   |
| AF-S 300/4D IF-ED <sup>*1</sup>           | 6/10                                       | 8°10'         | 32             | 1.45 (4.8)                                                  | 1/3.7                                         | 77                          | CL-M2                 | Built-in       | 1440       | 90 x 222.5                                           | —      | ①      | —      | ①      | ②             | ①         | ✓                                | 2                                | ✓ | 5 |
| AF-S 400/2.8D IF-ED II <sup>*1</sup>      | 9/11                                       | 6°10'         | 22             | 3.5 (11.5)                                                  | 1/7.7                                         | 52                          | CT-402, CL-L2         | HK-25          | 4400       | 159.5 x 351.5                                        | —      | ①      | —      | ①      | ②             | ②         | Not usable                       |                                  |   |   |
| AF-S 500/4D IF-ED II <sup>*1</sup>        | 9/11                                       | 5°            | 22             | 4.6 (15.1)                                                  | 1/8.3 [1/7.7]                                 | 52                          | CT-502, CL-L2         | HK-24          | 3430       | 139.5 x 394                                          | —      | ①      | —      | ①      | ②             | ①         | Not usable                       |                                  |   |   |
| AF-S 600/4D IF-ED II <sup>*1</sup>        | 7/10                                       | 4°10'         | 22             | 5.6 (18.4)                                                  | 1/8.3                                         | 52                          | CT-606, CL-L2         | HK-23          | 4750       | 166 x 430.5                                          | —      | ①      | —      | ①      | ②             | ①         | Not usable                       |                                  |   |   |
| Special Purpose                           |                                            |               |                |                                                             |                                               |                             |                       |                |            |                                                      |        |        |        |        |               |           |                                  |                                  |   |   |
| AF Micro 60/2.8D                          | 7/8                                        | 39°40'        | 32             | 0.219 (8 3/4 in.)                                           | 1                                             | 62                          | CL-S1, CL-32S         | HN-22          | 440        | 70 x 74.5                                            | ①      | —      | ①      | —      | —             | —         | ✓                                | 1                                | ✓ | 3 |
| AF Micro 105/2.8D                         | 8/9                                        | 23°20'        | 32             | 0.314 (1)                                                   | 1                                             | 52                          | CL-S3, CL-15S         | HS-7           | 560        | 75 x 104.5                                           | ⑤      | —      | —      | —      | —             | —         | ✓                                | 3                                | ✓ | 5 |
| AF Micro 200/4D IF-ED <sup>*1</sup>       | 8/13                                       | 12°20'        | 32             | 0.5 (1 5/8)                                                 | 1                                             | 62                          | CL-M2, CL-45          | HN-30          | 1190       | 76 x 193                                             | —      | —      | —      | —      | —             | —         | ✓                                | 5                                | ✓ | 5 |
| AF Micro 70-180/4.5-5.6D ED <sup>*1</sup> | 14/18                                      | 34°20'-13°40' | 32             | 0.37 (1.2)                                                  | 1/1.32                                        | 62                          | CL-M1, CL-71          | HB-14          | 1010       | 75 x 167                                             | ①      | —      | ①      | —      | —             | —         | ✓                                | 2                                | ✓ | 3 |
| AF-S & AF-I Teleconverters <sup>*2</sup>  |                                            |               |                |                                                             |                                               |                             |                       |                |            |                                                      |        |        |        |        |               |           |                                  |                                  |   |   |
| TC-14E II/14E                             | 5/5                                        | —             | —              | —                                                           | —                                             | —                           | CL-S1, CL-30S         | —              | 200        | 66 x 24.5                                            | —      | —      | —      | —      | —             | —         | —                                | —                                | — | — |
| TC-20E II/20E <sup>*3</sup>               | 6/7                                        | —             | —              | —                                                           | —                                             | —                           | CL-S1, CL-31S         | —              | 355        | 66 x 55                                              | —      | —      | —      | —      | —             | —         | —                                | —                                | — | — |

\*1 Tripod mounting collar is provided.

\*2 Compatible with AF-S and AF-I lenses except AF-S 17-35mm f/2.8D IF-ED, AF-S 24-85mm f/3.5-4.5G IF-ED and AF-S 28-70mm f/2.8D IF-ED.

\*3 Autofocusing is possible only with an AF-S or AF-I Nikkor lens having a maximum aperture of f/2.8.

\*4 0.85m (2.8 ft.) at 28mm or 1.5m (4.9 ft.) at 200mm.

- ① Usable.  
 ② Usable. Autofocusing is possible.  
 ③ When used at smaller aperture than f/11 with high shutter speeds, there is occasional uneven exposure.  
 ④ Usable, but there is occasional vignetting.  
 ⑤ There is occasional vignetting. And when used at smaller aperture than f/11 with high shutter speeds, there is occasional uneven exposure.  
 — Not usable.

- ✓ Usable.  
 \*a Vignetting occurs.  
 \*b Slight vignetting occurs.  
 \*c Vignetting will occur only in certain situations.

**Note:** Lens hood names indicate type: HN for Screw-in, HR for Rubber Screw-in, HK for Slip-on, HS for Snap-on, and HB for Bayonet.

A versatile and unique  
selection of lenses

Nikon offers a wide array of manual-focus lenses ranging from the ultrawideangle **15mm** to the powerful **1000mm Reflex** and unique **PC-type Nikkor**.

# Manual- focus Lenses



Nikkor 85mm f/1.4 © Paolo Patrizi

## PC-Nikkor lens

PC or "Perspective Control" Nikkor is essential lens for architectural and interior photography. The PC-Nikkor 28mm f/3.5 lens provides perspective control for your Nikon SLR. It offers 11mm off-axis and 360° rotation.

## P-Type Nikkor lens

Both the 45mm f/2.8 P and 500mm f/4 P IF-ED have a built-in CPU (Central Processing Unit) for the advanced automatic exposure features found in the most recent Nikon SLRs.

## Reflex-Nikkor lenses

Reflex-Nikkors employ a combination of mirrors and lens elements based on catadioptric (mirror-reflex) telescopes. The 500mm f/8 and 1000mm f/11 are both designed compact and lightweight.



| Lens                           | Lens Construction<br>(groups/elements) | Picture Angle | Minimum f/Stop | Closest Marked Focus Distance [Macro Setting] m (ft.) | Maximum Reproduction Ratio [Macro Setting] | Filter Attachment Size (mm) | Lens Case                                                          | Lens Hood      | Weight (g) | Dia. x Length (extension from lens mount) (mm) | TC-201 | TC-301 | TC-14A | TC-14B | AF-3 number of HN-36 hoods usable | Max. AF-4 number of HN-37 hoods usable |
|--------------------------------|----------------------------------------|---------------|----------------|-------------------------------------------------------|--------------------------------------------|-----------------------------|--------------------------------------------------------------------|----------------|------------|------------------------------------------------|--------|--------|--------|--------|-----------------------------------|----------------------------------------|
| Wideangle                      |                                        |               |                |                                                       |                                            |                             |                                                                    |                |            |                                                |        |        |        |        |                                   |                                        |
| 15/3.5 <sup>*1</sup>           | 11/14                                  | 110°          | 22             | 0.3 (1)                                               | 1/12.5                                     | Provided                    | CL-S2, CL-17                                                       | Built-in       | 630        | 90 x 83.5                                      | ①      | —      | ①      | —      | Not usable                        |                                        |
| 18/3.5 <sup>*1</sup>           | 10/11                                  | 100°          | 22             | 0.25 (0.85)                                           | 1/8.3                                      | 72                          | CL-S1, CL-34A, CL-37                                               | HK-9           | 350        | 75 x 61.5                                      | ①      | —      | ③      | —      | ✓ <sup>*3</sup> 0                 | ✓ 0                                    |
| 20/2.8 <sup>*1</sup>           | 9/12                                   | 94°           | 22             | 0.25 (0.85)                                           | 1/8.3                                      | 62                          | CL-S2, CL-30S                                                      | HK-14          | 260        | 65 x 42.5                                      | ①      | —      | ①      | —      | ✓ <sup>*b</sup> 0                 | ✓ 0                                    |
| 24/2 <sup>*1</sup>             | 10/11                                  | 84°           | 22             | 0.3 (1)                                               | 1/8.6                                      | 52                          | CL-S1, CL-31S, CL-34A                                              | HK-2           | 300        | 63 x 51.5                                      | ①      | —      | ①      | —      | ✓ 0                               | ✓ 1                                    |
| 24/2.8 <sup>*1</sup>           | 9/9                                    | 84°           | 22             | 0.3 (1)                                               | 1/8.8                                      | 52                          | CL-S1, CL-30S, CL-34A                                              | HN-1           | 275        | 63 x 46                                        | ①      | —      | ①      | —      | ✓ 0                               | ✓ 1                                    |
| 28/2 <sup>*1</sup>             | 8/9                                    | 74°           | 22             | 0.25 (0.9)                                            | 1/5.4                                      | 52                          | CL-S1, CL-31S, CL-32S                                              | HN-1           | 345        | 63 x 58.5                                      | ①      | —      | ①      | —      | ✓ 0                               | ✓ 1                                    |
| 28/2.8 <sup>*1</sup>           | 8/8                                    | 74°           | 22             | 0.2 (0.7)                                             | 1/3.9                                      | 52                          | CL-S1, CL-30S, CL-34A                                              | HN-2           | 250        | 63 x 44.5                                      | ①      | —      | ①      | —      | ✓ 0                               | ✓ 1                                    |
| 35/1.4 <sup>*1</sup>           | 7/9                                    | 62°           | 16             | 0.3 (1)                                               | 1/5.6                                      | 52                          | CL-S1, CL-31S, CL-32S                                              | HN-3           | 400        | 67.5 x 62                                      | ②      | —      | ②      | —      | ✓ 0                               | ✓ 1                                    |
| 35/2                           | 6/8                                    | 62°           | 22             | 0.3 (1)                                               | 1/5.7                                      | 52                          | CL-S1, CL-31S, CL-32S                                              | HN-3           | 280        | 63 x 51.5                                      | ①      | —      | ①      | —      | ✓ 0                               | ✓ 1                                    |
| 45/2.8 P                       | 3/4                                    | 50°           | 22             | 0.45 (2)                                              | 1/7.6                                      | 52                          | Soft pouch type provided                                           | HN-35          | 120        | 63 x 17                                        | —      | —      | —      | —      | ✓ 3                               | ✓ 4                                    |
| Normal                         |                                        |               |                |                                                       |                                            |                             |                                                                    |                |            |                                                |        |        |        |        |                                   |                                        |
| 50/1.2                         | 6/7                                    | 46°           | 16             | 0.5 (1.7)                                             | 1/7.9                                      | 52                          | CL-S1, CL-31S, CL-34A                                              | HS-12, HR-2    | 360        | 68.5 x 47.5                                    | ①      | —      | ①      | —      | ✓ 1                               | ✓ 2                                    |
| 50/1.4                         | 6/7                                    | 46°           | 16             | 0.45 (1.5)                                            | 1/6.8                                      | 52                          | CL-S1, CL-30S                                                      | HS-9, HR-1     | 250        | 63 x 40                                        | ②      | —      | ②      | —      | ✓ 1                               | ✓ 3                                    |
| 50/1.8                         | 5/6                                    | 46°           | 22             | 0.6 (2)                                               | 1/9.6                                      | 52                          | CL-30S                                                             | HR-4, HS-11    | 145        | 63 x 27.5                                      | ①      | —      | ①      | —      | ✓ 2                               | ✓ 3                                    |
| Telephoto                      |                                        |               |                |                                                       |                                            |                             |                                                                    |                |            |                                                |        |        |        |        |                                   |                                        |
| 85/1.4 <sup>*1</sup>           | 5/7                                    | 28°30'        | 16             | 0.85 (3)                                              | 1/7.9                                      | 72                          | CL-S2                                                              | HN-20          | 620        | 80.5 x 64.5                                    | ②      | —      | ②      | —      | ✓ 1                               | ✓ 3                                    |
| 105/1.8                        | 5/5                                    | 23°20'        | 22             | 1 (3.5)                                               | 1/7.6                                      | 62                          | CL-S1, CL-15S                                                      | Built-in       | 580        | 78.5 x 80.5                                    | ②      | —      | ②      | —      | ✓ 1                               | ✓ 3                                    |
| 105/2.5                        | 4/5                                    | 23°20'        | 22             | 1 (3.5)                                               | 1/7.7                                      | 52                          | CL-S1, CL-32S                                                      | Built-in       | 435        | 64 x 69.5                                      | ①      | —      | ③      | —      | ✓ 3                               | ✓ 5                                    |
| 135/2                          | 4/6                                    | 18°           | 22             | 1.3 (4.5)                                             | 1/7.5                                      | 72                          | CL-S2, CL-15S                                                      | Built-in       | 860        | 80.5 x 93.5                                    | ②      | —      | ②      | —      | ✓ 1                               | ✓ 4                                    |
| 135/2.8                        | 4/5                                    | 18°           | 32             | 1.3 (4.5)                                             | 1/7.5                                      | 52                          | CL-S1, CL-32S                                                      | Built-in       | 435        | 64 x 83.5                                      | ③      | —      | ①      | ①      | ✓ 3                               | ✓ 5                                    |
| 180/2.8 ED                     | 5/5                                    | 13°40'        | 32             | 1.8 (6)                                               | 1/7.5                                      | 72                          | CL-S4, CL-38                                                       | Built-in       | 800        | 78.5 x 130                                     | ②      | —      | ②      | —      | ✓ 2                               | ✓ 5                                    |
| 200/2 IF-ED <sup>*2</sup>      | 8/10                                   | 12°20'        | 22             | 2.5 (9)                                               | 1/9.5                                      | Gelatine filter             | CT-200                                                             | Built-in, HE-4 | 2550       | 132 x 225.5                                    | ②      | —      | ④      | ②      | Not usable                        |                                        |
| 300/2.8 IF-ED <sup>*2</sup>    | 6/8                                    | 8°10'         | 22             | 3 (10)                                                | 1/8.3                                      | 39                          | CT-302                                                             | Built-in, HE-4 | 2400       | 132 x 255                                      | ③      | ①      | ③      | ①      | Not usable                        |                                        |
| 400/2.8 IF-ED <sup>*2</sup>    | 6/8                                    | 6°10'         | 22             | 4 (15)                                                | 1/8.3                                      | 52                          | CT-400                                                             | Built-in, HE-3 | 5150       | 163 x 378.5                                    | ④      | ②      | —      | ②      | Not usable                        |                                        |
| 400/3.5 IF-ED <sup>*2</sup>    | 6/8                                    | 6°10'         | 22             | 4.5 (15)                                              | 1/9.8                                      | 122/39 <sup>*4</sup>        | CL-61A                                                             | Built-in       | 2800       | 134 x 296                                      | —      | ①      | ③      | ①      | Not usable                        |                                        |
| 500/4 P IF-ED <sup>*2</sup>    | 6/8                                    | 5°            | 22             | 5 (20)                                                | 1/9.1                                      | 39                          | CT-500                                                             | HK-17          | 3000       | 138 x 384                                      | —      | ①      | —      | ①      | Not usable                        |                                        |
| 600/5.6 IF-ED <sup>*2</sup>    | 6/7                                    | 4°10'         | 32             | 5 (20)                                                | 1/7.3                                      | 39                          | CT-603                                                             | Built-in, HE-4 | 2800       | 132 x 387.5                                    | —      | ①      | —      | ①      | Not usable                        |                                        |
| 800/5.6 IF-ED <sup>*2</sup>    | 6/8                                    | 3°            | 32             | 8 (30)                                                | 1/9.1                                      | 52                          | CT-800                                                             | Built-in, HE-3 | 5450       | 163 x 546                                      | —      | ②      | —      | ②      | Not usable                        |                                        |
| Reflex                         |                                        |               |                |                                                       |                                            |                             |                                                                    |                |            |                                                |        |        |        |        |                                   |                                        |
| 500/8 <sup>*2</sup>            | 6/6                                    | 5°            | —              | 1.5 (5)                                               | 1/2.5                                      | 82/39 <sup>*4</sup>         | CL-39                                                              | HN-27          | 840        | 89 x 109                                       | ③      | —      | ③      | ⑤      | Not usable                        | ✓ 5                                    |
| 1000/11 <sup>*2</sup>          | 5/5                                    | 2°30'         | —              | 8 (25)                                                | 1/7.1                                      | 39                          | CL-29                                                              | Built-in       | 1900       | 119 x 233.5                                    | ③      | ⑤      | —      | ⑤      | Not usable                        |                                        |
| Zoom                           |                                        |               |                |                                                       |                                            |                             |                                                                    |                |            |                                                |        |        |        |        |                                   |                                        |
| 28-85/3.5-4.5                  | 11/15                                  | 74°-28°30'    | 22             | 0.8 (3) [0.23 (0.8)]                                  | 1/8.3 [1/3.4]                              | 62                          | CL-S1, CL-33S                                                      | HK-16          | 510        | 67 x 89                                        | ①      | —      | ①      | —      | ✓ 0                               | ✓ 0                                    |
| 35-70/3.3-4.5                  | 7/8                                    | 62°-34°20'    | 22             | 0.5 (2) [0.35 (1)]                                    | 1/6.7 [1/4.3]                              | 52                          | CL-S1, CL-31S                                                      | HN-2           | 250        | 63 x 61                                        | ①      | —      | ①      | —      | ✓ 0                               | ✓ 1                                    |
| 35-105/3.5-4.5                 | 12/16                                  | 62°-18°       | 22             | 1.4 (5) [0.27 (0.9)]                                  | 1/11.6 [1/4]                               | 52                          | CL-S1, CL-33S                                                      | HK-11          | 510        | 64 x 86.5                                      | ①      | —      | ①      | —      | ✓ 0                               | ✓ 0                                    |
| 35-200/3.5-4.5                 | 13/17                                  | 62°-12°20'    | 22             | 1.6 (5.5) [0.3 (1)]                                   | 1/7 [1/4]                                  | 62                          | CL-S3, CL-13A                                                      | HK-15          | 740        | 70 x 119                                       | ③      | —      | —      | —      | ✓ 0                               | ✓ 1                                    |
| 70-210/4.5-5.6                 | 8/11                                   | 34°20'-11°50' | 32             | 1.5 (5)                                               | 1/6                                        | 52                          | CL-38                                                              | HR-1           | 375        | 64 x 104                                       | ①      | —      | ①      | —      | ✓ 2                               | ✓ 3                                    |
| Special Purpose                |                                        |               |                |                                                       |                                            |                             |                                                                    |                |            |                                                |        |        |        |        |                                   |                                        |
| PC 28/3.5 <sup>*3</sup>        | 8/9                                    | 74°           | 22             | 0.3 (1)                                               | 1/6.7                                      | 72                          | CL-S2, CL-34A                                                      | HN-9           | 380        | 78 x 64.5                                      | —      | —      | —      | —      | ✓ <sup>*c</sup> 0                 | ✓ 0                                    |
| PC Micro 85/2.8D <sup>*5</sup> | 5/6                                    | 28°30'        | 45             | 0.39 (1.3)                                            | 1/2                                        | 77                          | CL-75                                                              | HB-22          | 770        | 83.5 x 109.5                                   | —      | —      | —      | ①      | ✓ <sup>*c</sup> 0                 | ✓ 0                                    |
| Micro 55/2.8 <sup>*1</sup>     | 5/6                                    | 43°           | 32             | 0.25 (0.9)                                            | 1/2                                        | 52                          | CL-S1, CL-31S, CL-32S, CL-33S <sup>*6</sup> , CL-15S <sup>*6</sup> | HN-3           | 290        | 63.5 x 62                                      | ①      | —      | ①      | —      | ✓ 1                               | ✓ 3                                    |
| Micro 105/2.8 <sup>*1</sup>    | 9/10                                   | 23°20'        | 32             | 0.41 (1.34)                                           | 1/2                                        | 52                          | CL-S4, CL-32S, CL-33S, CL-38 <sup>*7</sup>                         | HS-14          | 515        | 66.5 x 83.5                                    | ①      | —      | ①      | —      | ✓ 3                               | ✓ 5                                    |
| Micro 200/4 IF <sup>*2</sup>   | 6/9                                    | 12°20'        | 32             | 0.71 (2.34)                                           | 1/2                                        | 52                          | CL-S4, CL-36, CL-45                                                | Built-in       | 800        | 66 x 172                                       | —      | ①      | ③      | ①      | ✓ 2                               | ✓ 5                                    |
| Teleconverters                 |                                        |               |                |                                                       |                                            |                             |                                                                    |                |            |                                                |        |        |        |        |                                   |                                        |
| TC-201                         | 5/7                                    | —             | —              | —                                                     | —                                          | —                           | CL-S1, CL-30S                                                      | —              | 230        | 64.5 x 52                                      | —      | —      | —      | —      | —                                 | —                                      |
| TC-301                         | 5/5                                    | —             | —              | —                                                     | —                                          | —                           | CL-S1, CL-33S                                                      | —              | 325        | 64.5 x 115                                     | —      | —      | —      | —      | —                                 | —                                      |
| TC-14A                         | 5/5                                    | —             | —              | —                                                     | —                                          | —                           | CL-S1, CL-30S                                                      | —              | 145        | 65 x 25.5                                      | —      | —      | —      | —      | —                                 | —                                      |
| TC-14B                         | 5/5                                    | —             | —              | —                                                     | —                                          | —                           | CL-S1, CL-30S                                                      | —              | 165        | 65 x 34                                        | —      | —      | —      | —      | —                                 | —                                      |
| Photographic Attachment        | 3/5                                    | —             | —              | —                                                     | —                                          | —                           | CL-S1                                                              | —              | 200        | 65.4 x 56                                      | —      | —      | —      | —      | —                                 | —                                      |

\*1 Features Close-Range Correction (CRC) system.

\*2 Tripod mounting collar is provided.

\*3 Manual-type diaphragm with preset ring.

\*4 Front filter / rear filter.

\*5 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 S camera.

\*6 With a PK-13 ring.

\*7 With a PN-11 ring.

① Usable.

② When used at smaller aperture than f/11 with high shutter speeds, there is occasional uneven exposure.

③ Usable, but there is occasional vignetting.

④ There is occasional vignetting. And when used at smaller aperture than f/11 with high shutter speeds, there is occasional uneven exposure.

⑤ Usable if the rear screw-in filter is removed.

— Not usable.

✓ Usable.

\*a Vignetting occurs.

\*b Slight vignetting occurs.

\*c Vignetting will occur only in certain situations.



# Suggested Equipment Combinations

For **Professionals**



## 1. Sports

F5, F100 and/or D1H  
AF-S VR 70-200mm f/2.8G IF-ED  
AF-S 300mm f/2.8D IF-ED II  
AF-S 400mm f/2.8D IF-ED II  
AF-S 500mm f/4D IF-ED II  
AF-S Teleconverters

## 2. Nature

F5, F100, D1x and/or D100  
SB-80DX AF Speedlight  
SB-29s TTL Macro Speedlight  
AF-S 17-35mm f/2.8D IF-ED  
AF-S 28-70mm f/2.8D IF-ED  
AF-S VR 70-200mm f/2.8G IF-ED  
AF-S 300mm f/2.8D IF-ED II  
AF Micro 200mm f/4D IF-ED  
AF Micro 70-180mm f/4.5-5.6D ED

## 3. Portraits

F5, F100, D1x and/or D100  
SB-80DX AF Speedlight  
Power Bracket SK-6A  
AF 85mm f/1.4D IF  
AF DC 105mm f/2D  
AF DC 135mm f/2D  
AF-S VR 70-200mm f/2.8G IF-ED  
AF-S 300mm f/2.8D IF-ED II

For **Advanced Amateurs**



F100, F80 and/or D100  
SB-80DX AF Speedlight  
TTL Remote Cord SC-17  
AF 85mm f/1.8D  
AF Micro 105mm f/2.8D  
AF 18-35mm f/3.5-4.5D IF-ED  
AF-S 24-85mm f/3.5-4.5G IF-ED  
AF 80-200mm f/2.8D ED  
AF-S 300mm f/4D IF-ED

For **Beginners/Amateurs**



F80, F65 and/or F55  
SB-50DX AF Speedlight  
Standard zooms like  
AF 28-100mm f/3.5-5.6G or  
AF 24-120mm f/3.5-5.6D IF  
Telephoto zooms like  
AF 70-300mm f/4-5.6G or  
AF 70-300mm f/4-5.6D ED  
AF Micro 60mm f/2.8D  
AF 85mm f/1.8D

# Filters



Lens filters can provide specific colour tone to help you achieve creative effects. Nikon offers a variety of filters including soft, polarizing, and neutral density. All feature special coating to eliminate surface reflection.

## Filters for Colour Photography

### Amber A2, A12

Amber filters correct the bluish coloration that sometimes affects daylight film.

### Blue B2, B8, B12

Blue filters subtract red and thus cool down coloration.

## Filters for B&W Photography

### Yellow Y44, Y48, Y52

Yellow filters absorb both blue and ultraviolet light so that skies appear darker in B&W prints.

### Orange O56

The O56 subtracts green as well as blue and ultraviolet.

### Red R60

This filter subtracts all colours of the spectrum except red.

### Green X0, X1

Green filters subtract red and blue, and allow green and yellow to pass through.

## Filters for Colour and B&W Photography

### Ultraviolet L37C, L39

### Skylight L1BC

Ultraviolet light can reduce contrast and detail in photos. The colourless UV filters produce sharper, non-hazy B&W photography, and correct the blue or violet tints that may occur with colour film. The L37C is multilayer-coated to further reduce reflection. The L39 is good for B&W photography of mountain or beach scenes. The multilayer-coated Skylight L1BC also cuts UV light, and like the other UV filters, can be used to protect the lens.

### Neutral Density ND2S, ND4, ND4S, ND8S, ND400

ND filters subtract all light equally, so they have no effect on colour balance, but instead

Accessories for Nikkor Lenses

reduce the amount of light entering the camera. They are used to control depth of field by allowing a larger aperture without changing the shutter speed. They also prevent overexposure in extremely bright light and when shooting beyond the aperture/shutter speed range possible with the film speed in use. For shooting the sun, the strongest ND400 is recommended.

#### Soft Focus Filters No. 1, No. 2

Soft focus filters come in three sizes — 52mm, 62mm or 72mm — to fit the front thread of a Nikkor lens. Filter No. 1 is good for portraits, giving a “romantic” haze to images. Filter No. 2 is stronger and produces a fog-like effect in landscapes, or highlights a small subject surrounded by dark space.

#### Circular Polarizing Filters

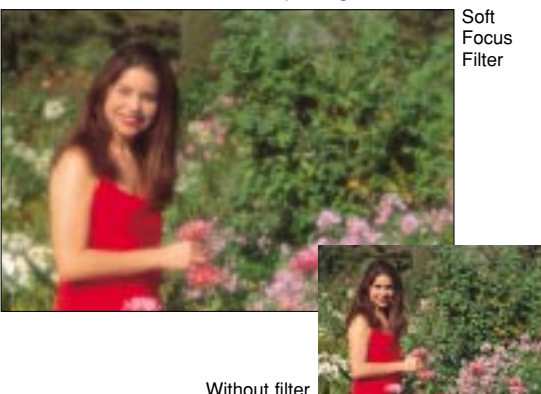
Available in 46mm, 52mm, 62mm, 72mm and 77mm attachment sizes. By reducing the light reflected from nonmetallic surfaces, these filters allow direct shooting through glass windows and reduce glare from water surfaces and sunlit trees and grass. They are the only filters that darken the sky in colour photography without affecting colour balance. They come in a rotating mount to enable different angles for different degrees of polarization. They do not interfere with the autofocus or auto-exposure operation of the Nikon AF SLRs.

#### Slip-in Circular Polarizing Filters

Designed for telephoto lenses equipped with a slip-in filter holder, these filters offer the same features as Nikon's standard circular polarizing filters.

#### Neutral Colour NC Filters

Available in 39mm, 46mm, 52mm, 58mm, 62mm, 72mm and 77mm attachment sizes, these neutral-colour filters serve as lens protectors. They do not affect colour balance. In addition, multilayer-coating prevents light reflection, thus improving colour rendition.



## Close-up Accessories

#### Auto Extension Rings PK and PN

Compact, lightweight and easy to attach, these rings — PK-11A, PK-12, 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.

#### Close-up Attachment Lenses

Nikon's close-up attachment lenses screw directly into the front thread of the lens — offering a simple, convenient way to increase magnification without affecting exposure control and TTL metering. They are treated with Nikon Integrated Coating for improved image contrast and reduced flare.



## Tripod Mounting Spacer

#### AH-5 for the PC Micro-Nikkor 85mm f/2.8D

When using a tripod with the PC Micro-Nikkor 85mm f/2.8D, 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 ED78/ED78A) supertelephoto lens.



## Lens Hoods

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



## 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, 108mm. Rear Lens Cap LF-1 is compatible with all lenses.

## Lens Strap

The lens strap LN-1 is easily adjustable for carrying various telephoto lenses, even large, heavy ones, comfortably on a shoulder. Compatible with autofocus lenses: AF-S 300/2.8D, AF-S/AF-I 400/2.8D, AF-S 500/4D and AF-S 600/4D; and manual lenses: 200/2, 300/2.8, 400/2.8, 400/3.5, 500/4 P, 600/5.6, 800/5.6 and 50~300/4.5.



## 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 supertelephoto lenses.

#### Soft Pouch (No. 58-62, CL-S1~S4/M1/M2/L1/L2):

Accommodates a variety of lenses of different focal lengths.



**Sue Bennett** (U.S.A.)

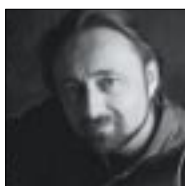
Sue Bennett is one of the most active commercial photographers in the U.S. Clients include advertising agencies and editorial publications in Europe and the U.S. Bennett has received many awards for both commercial and personal work including *Communication Arts* and *Graphis Photo Annals*.

**Dave Black** (U.S.A.)

Dave Black is a leading sports photographer. His images have appeared in *Sports Illustrated*, *Newsweek*, and *Time*. His main subjects are professional and world-class athletes, and he has photographed the summer and winter Olympic Games since 1984.

**Conrad Godly** (Switzerland)

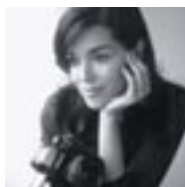
Conrad Godly is an important presence in fashion and commercial photography. His work regularly appears in many international fashion magazines. His first book *Untitled Nudes* was published in 1997.

**Frans Lanting** (Netherlands)

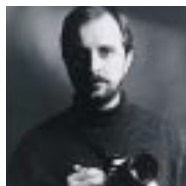
Frans Lanting is regarded as one of the world's leading nature photographers. His work is featured regularly in *National Geographic*, *GEO*, *Life*, and many other leading magazines. He has received numerous prestigious honours for his photographs which have been the subject of major exhibits in museums worldwide.

**Joe McNally** (U.S.A.)

Former *LIFE* magazine staff photographer Joe McNally maintains a busy schedule publishing in *Time*, *National Geographic*, *Sports Illustrated* and many other magazines. McNally has been honoured by *World Press Photo*, *Pictures of the Year*, and was recently inducted into the Kodak and Photo District News' *Legends Online* archive.

**Darcy Padilla** (U.S.A.)

Darcy Padilla is a documentary photographer whose work has appeared in such publications as *LIFE* magazine, *Graphis*, the *New York Times*, *Harpers Bazaar*, *Latina* magazine and many others. Padilla has also been awarded a John Simon Guggenheim Fellowship and an Open Society Individual Fellowship from the Soros Foundation.

**Paolo Patrizi** (Italy)

Paolo Patrizi specialises in portraiture and social documentary photography. His work has been exhibited internationally and featured in such publications as *The Observer Life Magazine*. One of his ongoing projects depicts people's devotion to religious pilgrimages and festivals.

**Rod Planck** (U.S.A.)

Rod Planck has been a professional nature photographer for over 20 years. His work has been featured in several books and many major publications including *Sports Illustrated*, *Audobon* and *Natural History*.

**John Shaw** (U.S.A.)

Internationally acclaimed nature photographer John Shaw has published work in a variety of magazines such as *Outdoor Photographer*, *National Wildlife* and *Natural History*. He has also written five instructional books on photography.

**Yu Yuntian** (People's Republic of China)

Yu Yuntian is one of China's leading photographers and arts educators. He has participated in many international arts and cultural events, and in 1989 was the first recipient of China's Gold Statue award for photographic excellence.

**Samuel Zuder** (Germany)

Samuel Zuder specialises in social and cultural photojournalism. His photographs appear in such magazines as *Merian*, *Geo*, *Allegra* and *Cosmopolitan*. One of his ongoing projects details the effects of war on civilian populations.

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