Enhance your expression with interchangeable lenses

Wide-angle zoom lens  ▶ P. 6

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Daylight sync ▶ P. 24

Bounce flash ▶ P. 26

Advanced Wireless Lighting ▶ P. 30

Auto FP high-speed sync ▶ P. 28

Control light and shadow using Speedlights

Daylight sync: Speedlights SB-910/SB700/SB-500/SB-300

Bounce flash: Speedlights SB-910/SB700/SB-500/SB-300

Advanced Wireless Lighting: Speedlights SB-910/SB700/SB-500

Auto FP high-speed sync: Speedlights SB-910/SB700/SB-500

Speedlights SB-910/SB700/SB-500/SB-300

2: When converted to 35mm [135] format.

*1: When converted to 35mm [135] format.

*2: Angle of view is equivalent to that of a diagonal line of a 16 mm lens in 35mm [135] format.
Specifications of each NIKKOR lens can be basically recognized from the product name.

(Order of indicated items may differ according to each lens.)

1. AF/AF-S
   “AF” is for autofocus lenses. “AF-S” lenses incorporate SWM (Silent Wave Motor) that enables quiet AF operation.

2. DX
   “DX” lens is designed exclusively for Nikon DX-format digital SLR cameras. Lenses without “DX” indication are FX-format compatible lenses.

3. 18-200mm/35mm
   Focal length of the lens. A fixed-focal-length lens indicates a single value such as “35mm”, while a zoom lens indicates two figures such as “18-200mm” (from maximum wide-angle to maximum telephoto position).

4. f/3.5-5.6
   The maximum (full open) aperture of the lens. F-number is a value indicating the brightness of the lens, and the smaller the value, the faster the lens. For zoom lenses that feature a variable f-number according to zoom position, the indication is shown as “f/3.5-5.6”, for example.

5. G/E/D
   G-type lenses do not incorporate an aperture ring, and apertures are always selected mechanically from the camera body. E-type lenses, employing an electromagnetic diaphragm blade unit, are controlled via electronic signals. D-type lenses feature an aperture ring and control aperture utilizing subject-to-camera distance information.

6. ED
   “ED” stands for “Extra-low Dispersion” glass. ED lenses effectively compensate for chromatic aberration that may cause color fringing and contrast deterioration.

7. VR
   Nikon’s original Vibration Reduction (VR) system is incorporated providing an effect equivalent to shutter speeds 2.5 to 4.5 stops faster*. Unlike in-camera systems, Nikon’s in-lens VR achieves a steadier view through the viewfinder.

8. DX
   “DX” lens is designed exclusively for Nikon DX-format digital SLR camera. Lenses without “DX” indication are FX-format compatible lenses.

9. ED VR
   ED VR II

1. *1: Based on CIPA Standard. The value is achieved when: DX-format lenses are attached to a DX-format digital SLR camera, FX-format compatible lenses are attached to an FX-format digital SLR camera, and zoom lenses are set at the maximum telephoto position.

*2: When converted to 35mm [135] format.

Comparison of focal length/angle of view with DX-format lenses

- 10 mm (15 mm equivalent*)
- 18 mm (27 mm equivalent*)
- 55 mm (82.5 mm equivalent**)
- 200 mm (300 mm equivalent*)

*1: When converted to 35mm [135] format.

What is NIKKOR?
The brand name of Nikon lenses that have built a reputation for high reliability and diverse achievements using superb optical technology accumulated over a long period of time.

How to read lens names?

AF-S DX NIKKOR 18-200mm f/3.5-5.6 G ED VR II
Ultra-wide-angle 2.4x zoom lens covering 109° angle of view at the maximum wide-angle position. Using the longer-focal-length range, it is also usable for snapshots and close-up shots.

Diameter × length: 82.5 × 87 mm, weight: 460 g

Useful hints:

- It is important to approach the subject boldly to enjoy dynamic photographic expression easily.
- Because background objects look smaller, containing distant trees, for example, within the frame is effective to emphasize the perspective.
- Utilizing the deep depth of field of a wide-angle lens, even the ambience and environment of a scene can be faithfully depicted.

Nikon DX-format digital camera + AF-S DX NIKKOR 10-24mm f/3.5-4.5G ED

Focal length: 10 mm (15 mm equivalent in 35mm [135] format), shutter speed: 1/200 s, aperture: f/4.5

Wide-angle zoom lens that captures wide scenes in flexible perspectives

DX format

AF-S DX NIKKOR 10-24mm f/3.5-4.5G ED

[15-36 mm equivalent in 35mm [135] format]

Focal length: 10 mm (15 mm equivalent in 35mm [135] format), shutter speed: 1/200 s, aperture: f/4.5

Getting much closer to subjects reproduces the pleasant moments more vividly

It is important to approach the subject boldly to enjoy dynamic photographic expression easily.

Because background objects look smaller, containing distant trees, for example, within the frame is effective to emphasize the perspective.

Utilizing the deep depth of field of a wide-angle lens, even the ambience and environment of a scene can be faithfully depicted.

Nikon DX-format digital camera + AF-S DX NIKKOR 10-24mm f/3.5-4.5G ED

Focal length: 10 mm (15 mm equivalent in 35mm [135] format), shutter speed: 1/200 s, aperture: f/4.5

Wide-angle zoom lens that captures wide scenes in flexible perspectives

DX format

AF-S DX NIKKOR 10-24mm f/3.5-4.5G ED

[15-36 mm equivalent in 35mm [135] format]
Useful hints:

- Set VR on for handheld shooting of dark scenes.
- Nano Crystal Coat, aspherical lens and ED glass elements are employed for high optical performance.
- Fluorine coat for greater durability and easy removal of dust and water droplets.

DX-format normal zoom lens for genuine wide-angle photography

An outstandingly light 16-80 mm zoom lens with f/2.8 aperture at the maximum wide-angle position for passionate DX-format camera users, that is ideal for capturing diverse scenes. You can enjoy a wide range of angles of view as well as superior optical performance.

Diameter x length: 80 x 85.5 mm, weight: 480 g

Lens used: AF-S DX NIKKOR 16-80mm f/2.8-4E ED VR (24-120 mm equivalent in 35mm [135] format)

Travel light and compact, capturing images that create a profound impression

Nikon DX-format digital camera + AF-S DX NIKKOR 16-80mm f/2.8-4E ED VR

Focal length: 20 mm, shutter speed: 1/500 s, aperture: f/4.8

Fluorine coat
Approach beautiful scenery creatively and memorably

Nikon DX-format digital camera + AF-S DX NIKKOR 55-200mm f/4-5.6G ED VR II

The retractable lens mechanism realizes compact size, for superb portability.

An ED glass element is employed to maximize the optical performance with minimal chromatic aberration.

When using a telephoto range that is likely to cause camera shake, taking advantage of the VR function is recommended.

Telephoto zoom lens featuring a retractable lens mechanism and VR

This 55-200 mm telephoto zoom lens responds to a wide variety of photographic subjects and scenes. Vibration Reduction (VR) function (effect equivalent to 4.0 stops*) is incorporated to reduce vibrations effectively.

Diameter x length: 70.5 x 83 mm, weight: 300 g

* Based on CIPA Standard. The value is achieved when attached to a DX-format digital SLR camera, with zoom set at the maximum telephoto position.

Lens used

AF-S DX NIKKOR 55-200mm f/4-5.6G ED VR II

[When retracted]

[When extended]
Wide range of angles of view changes even ordinary scenes into impressive images

Nikon DX digital camera + AF-S DX NIKKOR 18-300mm f/3.5-6.3G ED VR

Focal length: 300mm (450 mm equivalent in 35mm [135] format), shutter speed: 1/200 s, aperture: f/9

Focal length: 18mm (27 mm equivalent in 35mm [135] format), shutter speed: 1/1000 s, aperture: f/8

Because you can boldly get closer to subjects, even distant mountains can be dynamically reproduced.

Shooting near subjects instead of distant ones with zoom set at telephoto range can capture images with largely blurred background.

To emphasize an expanse of sky and sea, setting zoom at wide-angle range is recommended.

Useful hints:

Ultrahigh-power, approx. 16.7x zoom lens covering from wide-angle to super-telephoto range.

Shooting of a wide variety of scenes can be enjoyed with a high-power-zoom lens.

Diameter x length: 78.5 × 99 mm, weight: 550 g

Lens used: AF-S DX NIKKOR 18-300mm f/3.5-6.3G ED VR

(27-450 mm equivalent in 35mm [135] format)
Compact and light, normal lens that captures images with an angle of view close to that of human eyes

**AF-S DX NIKKOR 35mm f/1.8G**

At the maximum aperture of f/1.8, you can capture images with a beautifully blurred background.

It is important to focus accurately on the nearer eye of the subject to make your portraits more attractive.

Select a larger aperture when you want to take portraits that project a sense of transparency.

**Useful hints:**

- **Lens used:** AF-S DX NIKKOR 35mm f/1.8G
- **Diameter x length:** 70 × 52.5 mm, **weight:** 200 g

A fixed-focal-length normal lens with high reproduction capability. With a maximum aperture of f/1.8, it enables handheld shooting even in low-light situations. Also, shooting utilizing beautifully blurred background is made possible.
Capture a natural smile and expression from a moderate distance

Nikon DX-format digital camera + AF-S NIKKOR 50mm f/1.8G

Compact and light, fast fixed-focal-length lens for superb portability

When attached to DX-format D-SLR cameras: 75 mm equivalent in 35mm [135] format

Attaching this lens to a DX-format camera makes an ideal combination for portraits.

Select the “Portrait” option of the camera’s Picture Controls to reproduce healthy skin tone.

A natural expression can be encouraged through conversation with the subject.

Useful hints:

Lens used: Nikon DX-format digital camera + AF-S NIKKOR 50mm f/1.8G

Focal length: 50 mm (75 mm equivalent in 35mm [135] format), shutter speed: 1/160 s, aperture: f/2

Fast lens

While featuring a built-in SWM that ensures quiet AF operation, this fast fixed-focal-length lens is outstandingly compact with a weight of only approx. 185 g

Diameter x length: 72 mm x 52.5 mm, weight: 185 g

AF-S NIKKOR 50mm f/1.8G

When attached to DX-format D-SLR cameras: 75 mm equivalent in 35mm [135] format
Discover rich colors and delicate texture in micro photography

Nikon DX-format digital camera + AF-S DX Micro NIKKOR 40mm f/2.8G

Focal length: 40 mm (60 mm equivalent in 35mm [135] format), shutter speed: 1/320 s, aperture: f/4

This compact and light micro lens achieves ideal matching with a small camera body. Close-up photography utilizing high resolution and large, beautiful blur can be enjoyed easily.

Diameter x length: 68.5 x 64.5 mm, weight: 235 g

Useful hints:

- When minute focusing is required for small subjects, manual focus is effective.
- Live view shooting using a tripod enables easy confirmation of focused points of details.
- Use built-in flash or an external Speedlight to prevent shaded subjects.

With the high reproduction ratio, this micro lens enables you to enjoy close-up shots

DX format

AF-S DX Micro NIKKOR 40mm f/2.8G

(60 mm equivalent in 35mm [135] format)
Compact fisheye lens that expands the enjoyment of shooting by utilizing deforming effects

AF DX Fisheye-Nikkor 10.5mm f/2.8G ED

Angle of view is equivalent to that of a diagonal line of a 16 mm lens in 35mm [135] format

Capture the sea from a low angle, or capture the sky from a high angle. Photographic expression can be greatly changed by using different shooting angles.

To reproduce subjects at a large size, it is recommended to get closer to them boldly.

Because an extremely wide area is covered with an 180° angle of view, be careful not to include your feet in your picture.

Focal length: 10.5 mm (16 mm equivalent in 35mm [135] format), shutter speed: 1/800 s, aperture: f/6.3

This compact and light fisheye lens greatly enhances your photographic expression with its significant deforming effects.

Diameter x length: 63 × 62.5 mm, weight: 305 g

Useful hints:

Convert an ordinary scene drastically with a unique perspective

Nikon DX-format digital camera + AF DX Fisheye-Nikkor 10.5mm f/2.8G ED

• Autofocus is not available with the D5000/D3000 series.

Lens used

AF DX Fisheye-Nikkor 10.5mm f/2.8G ED

Angle of view is equivalent to that of a diagonal line of a 16 mm lens in 35mm [135] format.

• Autofocus is not available with the D5000/D3000 series.
What’s more, Nikon’s Creative Lighting System (CLS) that flexibly manipulates lighting further expands the possibilities of flash photography.

CLS is Nikon’s original Speedlight system that utilizes optimized data communication between flash units and cameras. A combination of Speedlights and CLS-compatible cameras* achieves optimal flash shooting by sharing the data of shooting situations, flash status and settings of each piece of equipment, and accurately reflecting it on various functions.

Nikon’s original Speedlight system

Versatile functions of the Nikon Creative Lighting System (CLS)

- i-TTL flash control
- Advanced Wireless Lighting
- FV lock
- Auto FP high-speed sync
- AF-assist illumination for multi-point AF
- Flash color information communication
- Modeling illumination

[Available functions differ according to the combination of Speedlight and camera.]

The advantages of using a Speedlight

- Can be easily used anytime and anywhere
- Enables flash photography delivering images in which the brightness of the main subject and background are well balanced

Built-in flash

With a Speedlight

- Even a distant subject can be illuminated by the large amount of light
- Soft lighting can be attained using bounce flash capability
- Creative expression can be realized with remote flash shooting

Remote flash (single Speedlight)

Emphasizes the ambience more

Remote flash (two Speedlights)

Makes your pictures of food look more delicious

Semi-backlight effect by illuminating the cake from diagonally behind achieves a completely bright image. Enhance your photography expression using lighting techniques.

Illuminating the bicycle from the side emphasizes the sense of depth. Illumination from above softens the car in the background, giving the image a more impressive appearance.

Semi-transparent material such as tissue paper is used to diffuse the light.

Nikon’s original Speedlight system

For example, using the Advanced Wireless Lighting function of CLS…
Useful hints:

By illuminating shaded areas using a Speedlight, even detailed expression of the subject can be clearly reproduced. When using an ultra-wide-angle lens, the angle of view of which is wider than the illumination angle of the built-in flash, and does not usually allow illumination of the entire frame, the SB-700 or SB-910 enables effective flash shooting with a built-in wide-flash adapter. Setting the camera’s metering system to matrix activates i-TTL Balanced Fill-Flash that provides appropriately exposed subjects and background with an ideal balance, even if the background is bright, such as a blue sky.

Daylight sync flash brightens the main subject even in backlit situations

Speedlights can be used even in sunlight, so your pet in the shade can be brightly reproduced

Nikon DX-format digital camera + AF-S DX Nikkor 10-24mm f/3.5-4.5G ED + SB-700 Speedlight

Daylight sync flash

Without flash

Usable Speedlights

SB-910
SB-700
SB-500
SB-300

SB-700 Speedlight

Easy to understand, simple to use, multifunctional Speedlight with superior operability

Guide number: 28 (ISO 100, m, 20°C, 35 mm zoom head position, FX format, Standard illumination pattern)
When you want to capture a correctly exposed subject in a dark interior, illuminating the built-in flash directly at the subject may cause unwanted reflection on the subject’s face. To prevent this, tilting the flash head upward to diffuse the light on the ceiling is effective. This creates softer lighting, resulting in a natural image while retaining a gentle atmosphere.

Bounce flash softly wraps the subject with light reflected from a ceiling or wall.

**Useful hints:**

- Soft lighting creates gentle ambience while reproducing the natural skin tone of the subject.
- Nikon DX-format digital camera + AF-S NIKKOR 50mm f/1.8G + SB-500 Speedlight
- Focal length: 50 mm (75 mm equivalent in 35mm [135] format), shutter speed: 1/80 s, aperture: f/2.2

**SB-500 Speedlight**
- Guide number: 24 (ISO 100, m, 23°C)
- LED light: approx. 100 lx (at 1 m, high power)
- Compact and light, multifunctional Speedlight featuring high-performance LED light

**Usable Speedlights**
- SB-910
- SB-700
- SB-500
- SB-300

**Speedlight used**
- SB-500 Speedlight
When shooting a subject like this without using a flash, the subject may be under-exposed with backlight effect. However, in normal daylight sync with a built-in flash, high shutter speeds cannot be used, failing to stop the action. Use of a Speedlight will be the solution in this case. A high-speed shutter can capture the well-illuminated subject while freezing the dynamic action.

Auto FP high-speed sync* enables the use of high shutter speeds

Useful hints:

Freeze the action to capture dynamic moments

Nikon DX-format digital camera + AF-S DX NIKKOR 16-85mm f/3.5-5.6G ED VR + SB-500 Speedlight

Useful Speedlights:

- SB-910
- SB-700
- SB-500

Speedlight used:

SB-500 Speedlight

Compact and light, multifunctional Speedlight featuring high-performance LED light

Guide number: 24 (ISO 100, m, 23°C)
LED light: approx. 100 lx (at 1 m, high power)

* Auto FP high-speed sync is not available with the D5000/D3000 series.
The beautiful form of a subject is impressively depicted as the sun is about to set

Nikon DX-format digital camera + AF-S DX NIKKOR 18-300mm f/3.5-6.3G ED VR + SB-500 Speedlight

Useful hints:

To capture a dramatic image utilizing fantastic lighting at dusk, a single Speedlight placed diagonally in front of the car was used. By adding highlights to emphasize the lustrous metal, the beautiful form of the car and the profile of the subject are impressively rendered. Multiple flash photography using additional Speedlights is also made easy because i-TTL balanced fill-flash capability ensures the optimal exposure automatically.

Advanced Wireless Lighting* for easy wireless multiple flash photography

Speedlight used: SB-500 Speedlight

Compact and light, multifunctional Speedlight featuring high-performance LED light

Guide number: 24 (ISO 100, m, 23°C)

LED light: approx. 100 lx (at 1 m, high power)

Usable Speedlights: SB-910, SB-700, SB-500

* In Advanced Wireless Lighting with the D5000/D3000 series, it is necessary to attach the SB-910/SB-700 Speedlight or SU-800 Wireless Speedlight Commander to the camera.

Focal length: 18 mm (27 mm equivalent in 35mm [135] format), shutter speed: 1 s, aperture: f/4

Advanced Wireless Lighting

Without flash
For further information on NIKKOR lenses and Nikon Speedlights, please refer to the following websites.

http://nikkor.com
This special site introduces the world of NIKKOR comprehensively from diverse points of view, such as history and technology, in a visually attractive style.

http://www.nikon-asia.com/nikkor
Nikon products including NIKKOR lenses and Speedlights are introduced. Features and sample images of each product are included.

http://imaging.nikon.com/lineup/application/nikkor_acc.htm
Digital Catalog for easy access to various kinds of information about products used with Nikon digital SLR cameras, such as interchangeable lenses and accessories.

Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer. July 2015 ©2015 Nikon Corporation

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