

NIKKOR

NIKKOR Z DX 16-50mm f/2.8 VR

Reference Guide

- Read this document thoroughly before using the product.
- To ensure proper use of the product, be sure to read "For Your Safety" (page 4).
- After reading this document, keep it readily accessible for future reference.

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Introduction

Before You Begin

Before using this product, please read these instructions carefully. You will also need to consult the documentation provided with the camera.

- This lens is intended exclusively for use with mirrorless cameras featuring a Nikon Z mount.
- Update the camera firmware to the latest version. With earlier versions, the camera may fail to detect the lens correctly and some features may not be available. The latest version of the camera firmware can be downloaded from the Nikon Download Center at the URL below.

<https://downloadcenter.nikonimglib.com/>

No reproduction in any form of this document, in whole or in part (except for brief quotation in critical articles or reviews), may be made without written authorization from NIKON CORPORATION.

For Your Safety

To prevent damage to property or injury to yourself or to others, read "For Your Safety" in its entirety before using this product.

After reading these safety instructions, keep them readily accessible for future reference.



WARNING: Failure to observe the precautions marked with this icon could result in death or severe injury.



CAUTION: Failure to observe the precautions marked with this icon could result in injury or property damage.



WARNING

Do not disassemble or modify this product. Do not touch internal parts that become exposed as the result of a fall or other accident.

Failure to observe these precautions could result in electric shock or other injury.

Should you notice any abnormalities such as the product producing smoke, heat, or unusual odors, immediately disconnect the camera power source.

Continued operation could result in fire, burns or other injury.

Keep dry. Do not handle with wet hands.

Failure to observe these precautions could result in fire or electric shock.

Do not use this product in the presence of flammable dust or gas such as propane, gasoline or aerosols.

Failure to observe this precaution could result in explosion or fire.



WARNING

Do not directly view the sun or other bright light source through the lens.

Failure to observe this precaution could result in visual impairment.

Keep this product out of reach of children.

Failure to observe this precaution could result in injury or product malfunction.

In addition, note that small parts constitute a choking hazard. Should a child swallow any part of this product, seek immediate medical attention.

Do not entangle, wrap or twist the straps around your neck.

Failure to observe this precaution could result in accidents.

Do not handle with bare hands in locations exposed to extremely high or low temperatures.

Failure to observe this precaution could result in burns or frostbite.



CAUTION

Do not leave the lens pointed at the sun or other strong light sources.

Light focused by the lens could cause fire or damage to product's internal parts. When shooting backlit subjects, keep the sun well out of the frame. Sunlight focused into the camera when the sun is close to the frame could cause fire.

Do not leave the product where it will be exposed to extremely high temperatures for an extended period, such as in an enclosed automobile or in direct sunlight.

Failure to observe this precaution could result in fire or product malfunction.

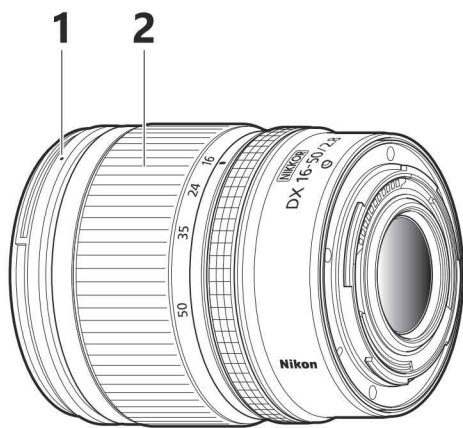
Do not transport cameras or lenses with tripods or similar accessories attached.

Failure to observe this precaution could result in injury or product malfunction.

Using the Lens

Parts of the Lens: Names and Functions

The parts of the lens are listed below.



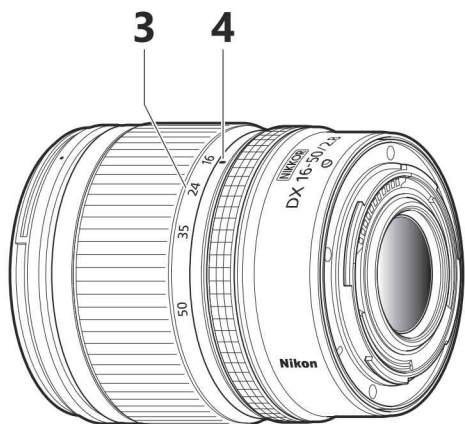
1 Lens hood mounting mark

Use when attaching the lens hood.

 ["Attaching and Removing the Lens Hood" \(p.16\)](#)

2 Zoom ring

Rotate the ring to zoom in or out.

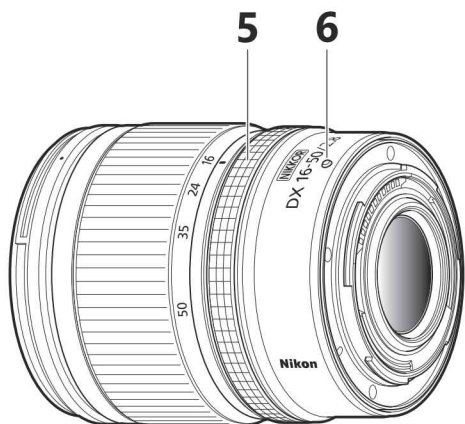


3 Focal length scale

Determine the approximate focal length when zooming the lens in or out.

4 Focal length mark

Determine the approximate focal length when zooming the lens in or out.



5 Control ring

- **Autofocus mode selected:**

Rotate the ring to adjust a setting such as **[Focus (M/A)]** or **[Aperture]** assigned using the camera. For more information, see the description of **[Custom control assignment]**, **[Custom controls]**, or **[Custom controls (shooting)]** in the documentation provided with the camera.

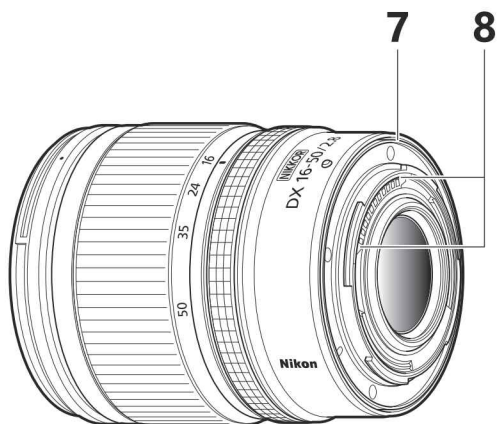
- **Manual focus mode selected:**

Rotate the ring to focus.

6 Lens mounting mark

Use when mounting the lens on the camera.

 ["Attachment and Removal" \(p.13\)](#)



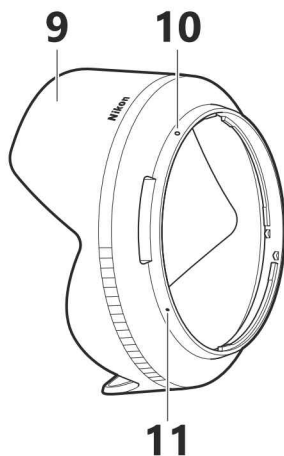
7 Rubber lens-mount gasket

Helps prevent the ingress of water droplets or dust along the surfaces where the lens and camera meet when the lens is mounted on the camera. *

** The gasket may not fully prevent the intrusion of water droplets or dust under all conditions.*

8 CPU contacts

Used to transfer data to and from the camera.



9 Lens hood

Lens hoods reduce stray light that would otherwise cause flare or ghosting. They also serve to protect the lens.

 ["Attaching and Removing the Lens Hood" \(p.16\)](#)

10 Lens hood lock mark

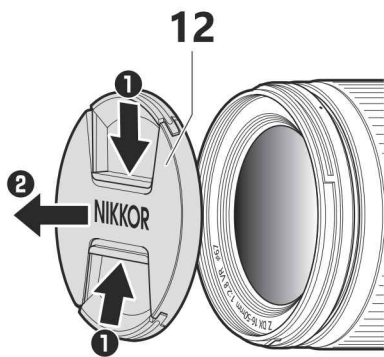
Use when attaching the lens hood.

 ["Attaching and Removing the Lens Hood" \(p.16\)](#)

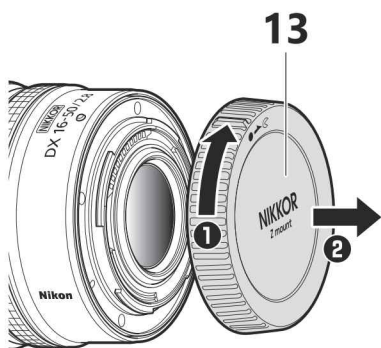
11 Lens hood alignment mark

Use when attaching the lens hood.

 ["Attaching and Removing the Lens Hood" \(p.16\)](#)



12 Lens cap (front cap)

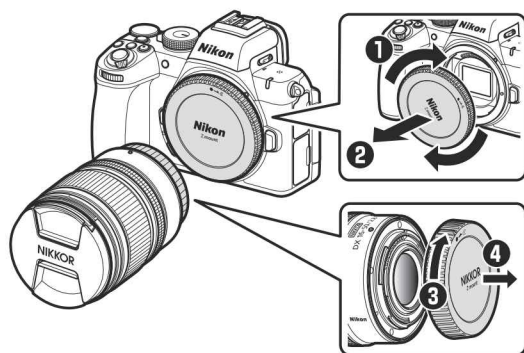


13 Lens cap (rear cap)

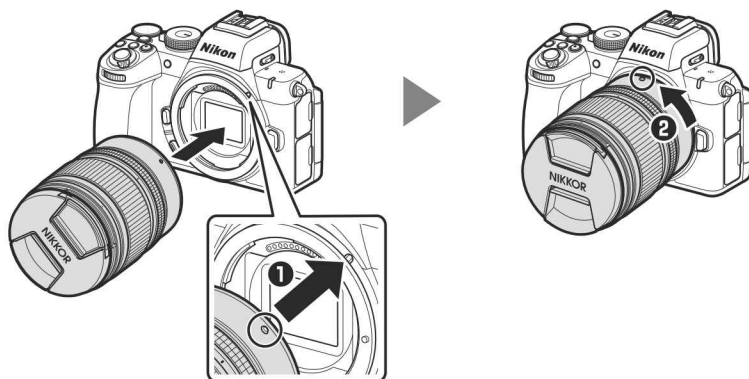
Attachment and Removal

Attaching the Lens

1. Turn the camera body off, remove the camera body cap, and detach the rear lens cap.

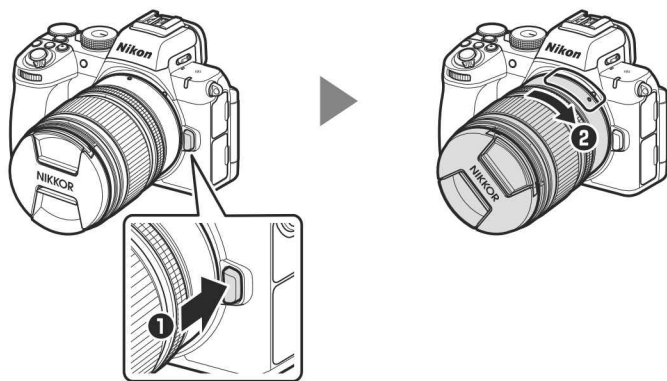


2. Position the lens on the camera body, keeping the mounting mark on the lens aligned with the mounting mark on the camera body (❶), and then rotate the lens in the direction shown (❷) until it clicks into place.



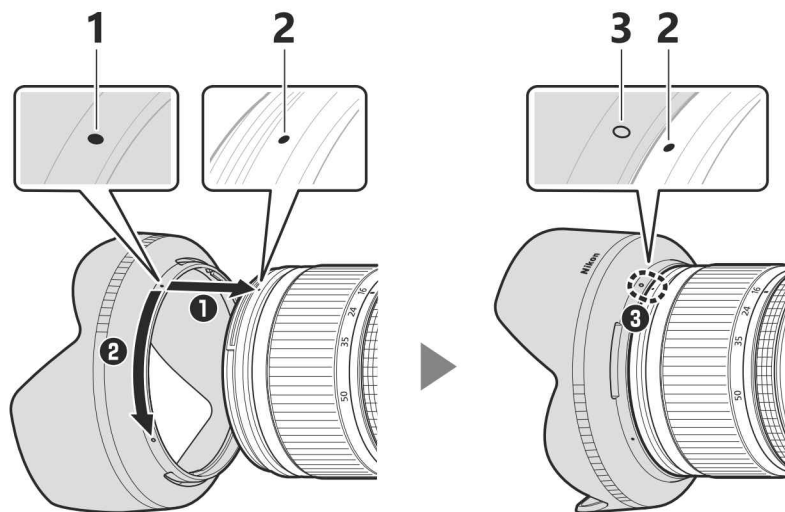
Removing the Lens

1. Turn the camera body off.
2. Press and hold the lens release button (❶) while turning the lens in the direction shown (❷).



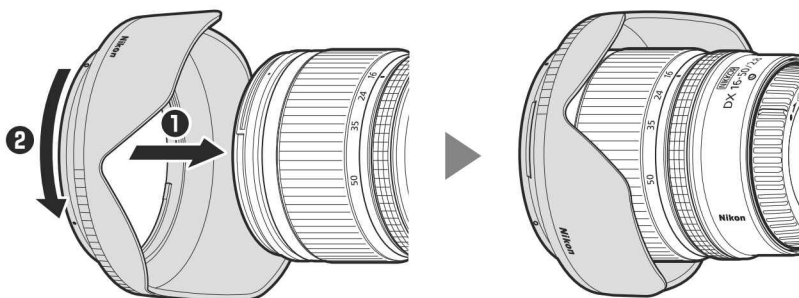
Attaching and Removing the Lens Hood

- Align the lens hood alignment mark with the lens hood mounting mark (❶) and then rotate the lens hood in the direction shown (❷) until the mounting mark is aligned with the lens hood lock mark (❸).

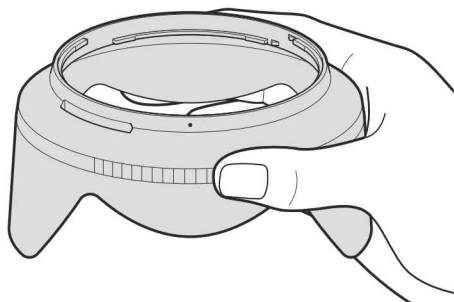


- ❶ Lens hood alignment mark
- ❷ Lens hood mounting mark
- ❸ Lens hood lock mark

- Gripping the front too tightly makes the lens hood difficult to attach or remove. When rotating the lens hood, hold it near the lens hood alignment mark (●).
- To remove the lens hood, reverse the above steps.
- The lens hood can be reversed and mounted on the lens when not in use.



Reversing the Lens Hood



Keeping your finger and thumb wrapped around the lens hood, gently grip the knurled surface and rotate the hood until it clicks into place in the reversed position.

Vibration Reduction (VR)

The lens supports vibration reduction. Vibration reduction settings can be adjusted from the camera. See the documentation provided with the camera for details.

Vibration reduction allows shutter speeds slower than would otherwise be the case, expanding the range of shutter speeds available.

Vibration Reduction

- Due to the design of the vibration reduction system, the lens may rattle when shaken. This does not indicate a malfunction.
- To reduce blur caused by tripod shake, select **[Normal]** or **[Sport]** for the on-camera vibration reduction option when the camera is mounted on a tripod. Note, however, that depending on the type of tripod and shooting conditions, there may be cases in which **[Off]** is the preferred option.
- **[Normal]** or **[Sport]** is recommended when the camera is mounted on a monopod.

Cautions: Taking Photographs

- The following restrictions apply when the lens is used with an FX-format camera:
 - The camera will use the DX-format image area, which reduces the number of pixels recorded and the number of focus points.
 - The [**Image Dust Off ref photo**] option in the setup menu cannot be used.
- Videos shot with 1920 × 1080 120p, 1920 × 1080 100p, or 1920 × 1080 slow-motion selected for [**Frame size/frame rate**] in the movie shooting menu are recorded at the following frame sizes and rates when the lens is mounted on a Z 6:
 - 1920 × 1080; 120p → 1920 × 1080; 60p
 - 1920 × 1080; 100p → 1920 × 1080; 50p
 - 1920 × 1080; 30p ×4 (slow-motion) → 1920 × 1080; 30p
 - 1920 × 1080; 25p ×4 (slow-motion) → 1920 × 1080; 25p
 - 1920 × 1080; 24p ×5 (slow-motion) → 1920 × 1080; 24p

Precautions for Use

- Avoid handling or supporting the lens or camera solely by the lens caps or lens hood.
- Keep the CPU contacts clean.
- Should the rubber lens-mount gasket be damaged, cease use immediately and take the lens to a Nikon-authorized service center for repair.
- Reattach the lens caps when the lens is not in use.
- Do not leave the lens in humid locations or in locations in which it may be exposed to moisture. Rusting of the internal mechanism can cause irreparable damage.
- Do not leave the lens next to open flames or in other extremely hot locations. Extreme heat could damage or warp the lens.
- Taking the lens from a warm to a cold environment or *vice versa* may cause damaging condensation inside and outside the lens. Place the lens in a sealed bag or plastic case before taking it across a temperature boundary. The lens can be taken from the bag or case once it has had time to adjust to the new temperature.
- We recommend that you place the lens in a case (available separately) to protect it from scratches during transport.
- Keep credit cards and other such magnetic storage devices away from the camera and lens. Data stored on the device could be corrupted.

Lens Maintenance

- Removing dust is normally sufficient to clean the glass surfaces of the lens.
- Smudges, fingerprints, and other oily stains can be removed using a soft, clean cotton cloth or third-party lens cleaning tissue lightly dampened with a small amount of ethanol or third-party lens cleaner; clean from the center outwards in a circular motion. Be sure to clean evenly and thoroughly without leaving smears.
- Never use organic solvents such as paint thinner or benzene to clean the lens.
- Neutral Color (NC) filters (available separately) and the like can be used to protect the front lens element.
- Do not store the lens in direct sunlight or with naphtha or camphor moth balls. If the lens will not be used for an extended period, store it in a cool, dry location to prevent mold and rust.

Technical Notes

Cameras with AF-Assist Illuminators

The lens or lens hood may block the light from the camera AF-assist illuminator.

- For the information on using the lens with cameras that have built-in AF-assist illuminators, visit the site below.

<https://downloadcenter.nikonimglib.com/>

Using the Lens on Cameras with a Built-in Flash

Shadows will be visible in photos where light from the built-in flash is obscured by the lens or lens hood. Remove the lens hood before shooting. Note, however, that depending on the distance to the subject and lens focal length, shadows may appear even when the lens hood is removed.

- For information on the subject distances and focal lengths at which shadows will not appear in photos taken with a built-in flash, visit the site below.

<https://downloadcenter.nikonimglib.com/>

Accessories

Supplied Accessories

- LC-67B Lens Cap (front cap)
- LF-N1 Lens Cap (rear cap)
- HB-118 Lens Hood

Other Compatible Accessories

- CL-C1 Lens Case
- 67 mm filters

☑ Filters

- Use only one filter at a time.
- Remove the lens hood before attaching filters. You will also need to remove the lens hood before rotating circular polarizing filters.

Specifications

Mount	Nikon Z mount
Focal length	16 – 50 mm
Maximum aperture	f/2.8
Lens construction	12 elements in 11 groups (including 1 ED element and 2 aspherical elements)
Angle of view	DX format: 83° – 31° 30'
Focal length scale	Graduated in millimeters (16, 24, 35, 50)
Focusing system	Internal focusing system
Vibration reduction	Lens shift using voice coil motors (VCMs)
Minimum focus distance (measured from focal plane)	• 16 mm zoom position: 0.15 m (0.5 ft) • 24 mm zoom position: 0.18 m (0.59 ft) • 35 mm zoom position: 0.21 m (0.69 ft) • 50 mm zoom position: 0.25 m (0.82 ft)
Maximum reproduction ratio	0.24× (50 mm focal length)
Diaphragm blades	9 (rounded diaphragm opening)
Aperture range	f/2.8–22
Filter-attachment size	67 mm (P = 0.75 mm)

Dimensions (maximum diameter × distance to end of lens from camera lens mount flange)	Approx. 74.5 mm × 88 mm (3 in. × 3.5 in.)
Weight	Approx. 330 g (11.7 oz)

- Throughout this document, "FX format" and "FX" are used in reference to an angle of view equivalent to that of a 35 mm format ("full frame") camera and "DX format" and "DX" to an angle of view equivalent to that of an APS-C camera.
- Nikon reserves the right to change the appearance, specifications, and performance of this product at any time and without prior notice.

Notices

Notices for Customers in the U.S.A.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Federal Communications Commission (FCC) Radio Frequency Interference Statement

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTIONS

• Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Nikon Corporation may void the user's authority to operate the equipment.

Nikon Inc., 1300 Walt Whitman Road, Melville, New York 11747-3064, U.S.A.

Tel.: 631-547-4200

Notices for Customers in Canada

CAN ICES-003 (B) / NMB-003 (B)

Notices for Customers in Europe

This symbol indicates that electrical and electronic equipment is to be collected separately.



The following apply only to users in European countries:

- This product is designated for separate collection at an appropriate collection point. Do not dispose of as household waste.
- Separate collection and recycling helps conserve natural resources and prevent negative consequences for human health and the environment that might result from incorrect disposal.
- For more information, contact the retailer or the local authorities in charge of waste management.