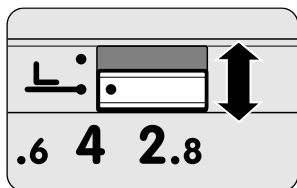


2



## Nomenclature

- |                                 |  |
|---------------------------------|--|
| ① Focal length scale            | ⑩ Aperture scale   |
| ② Focal length scale index line | ⑪ Aperture-direct-readout scale                            |
| ③ Distance index line           | ⑫ Minimum aperture signal post<br>(EE servo coupling post) |
| ④ Distance scale                | ⑬ Aperture indexing post                                   |
| ⑤ Hood mounting index           | ⑭ CPU contacts   |
| ⑥ Focus ring                    | ⑮ Meter coupling ridge                                     |
| ⑦ Focus mode switch             | ⑯ Aperture ring  |
| ⑧ Aperture index/Mounting index | ⑰ Zoom ring  |
| ⑨ Minimum aperture lock lever   |  |

## Introduction

The AF-S Zoom-Nikkor ED 17-35mm f/2.8D IF employs a Silent Wave Motor inside the lens to drive the focusing mechanism, thus the “S” designation. As a result, autofocus is smooth, silent, and almost instantaneous. In addition, this lens features internal focusing (IF), so there is no change in the overall length of the lens from infinity to its closest focusing distance of 0.28m (0.9 ft.), contributing to balanced hand-held operation. Moreover, three aspherical and two ED (Extra-low Dispersion) lens elements ensure that images that are sharp and clear from center to edges and virtually free of color fringing, regardless of the focal length setting. Also, by utilizing a 9-bladed diaphragm that produces a nearly circular aperture, out-of-focus images in front of or behind the subject are rendered as pleasing blurs.

**Note:** *This lens offers Silent Wave autofocus with Nikon F5, F4-Series, F100, F90X/N90s\*, F90-Series/N90\*, F80-Series/N80-Series\*, F70-Series/N70\*, F65-Series/N65-Series\*, Pronea 600i/6i\*, Pronea S cameras, in addition to D2H, D1-Series, D100 and D70 Digital Cameras.*

\* Sold exclusively in the USA.

## When Mounted on Nikon Digital Cameras

This lens can be used as a standard zoom lens for Nikon Digital Cameras. When mounted, the lens' picture angle becomes 79°– 44° and its 35mm equivalent focal length is approximately 25.5 – 52.5mm.

## Important!

- Be careful not to soil or damage the CPU contacts.
- Do not use the AF-I Teleconverters TC-14E/TC-20E or the AF-S Teleconverters TC-14EII/TC-17EII/TC-20EII. (The rear elements of the lens will touch the elements in the teleconverter.)
- Do not attach the following accessories to the lens, as they might damage the lens CPU contacts: Auto Extension Ring PK-1, PK-11/11A, Auto Ring BR-4 and K1 Ring. Other accessories may not be suitable when this lens is used with certain camera bodies. For details, refer to instruction manual for each product.
- This lens is not compatible when used with a Nikon F3AF camera with the AF Finder DX-1 attached.

## Focusing

Set your camera's focus mode selector according to this chart:

Cameras	Camera's focus mode	Lens' focus mode	
		M/A	M
F5, F4-Series, F100, F90X/N90s*, F90-Series/N90*, F80-Series/N80-Series*, F70-Series/N70*, F65-Series/N65-Series*, Pronea 600i/6i*, Pronea S, D2H, D1-Series, D100, D70	C S AF	Autofocus with manual priority	Manual focus (Focus assist is available.)
	M	Manual focus (Focus assist is available.)	
Nikon AF cameras (except for F3AF)	C S AF M	Manual focus (Focus assist is available.)	
Other Nikon cameras (except for F3AF)		Manual focus	

\* Sold exclusively in the USA.

### • Autofocus with manual override

Set the focus mode switch (**Fig. 1**) to **M/A**. Autofocus is provided, but you can manually override the focus by operating the separate manual focus ring while lightly depressing the shutter release button or the AF start (**AF-ON**) button on the camera body of cameras so equipped. To cancel manual override, remove your finger from the shutter release button or the AF start button.

### • Getting good results with autofocus

Refer to "Notes on using wide or super-wide angle AF Nikkor lenses" (p. 52).

## Reproduction Ratio and Shooting Distance

Normal focusing extends from infinity to 0.28m (approx. 0.9 ft.). A maximum reproduction ratio of approx. 1:8.9 is obtained at the 17mm setting, while a reproduction ratio of 1:4.6 is possible at 35mm.

## Focusing, Zooming and Depth of Field

(Refer to Quick reference charts **1** and **2** on page 57.)

In the **M/A** (autofocus with manual override) mode, first turn the zoom ring until the desired composition is framed in the viewfinder before autofocusing. In the **M** (manual focus) mode, focusing is possible at any focal length, but the longer the focal length, the larger the image and the shallower the depth of field, making focusing easier. If your camera has a depth of field preview (stop-down) button or lever, depth of field can be observed while looking through the camera viewfinder. It is possible to determine depth of field by using the scale provided on page 57.

### To Use the Depth-of-Field Scale:

- 1 Cut out the scales along the lines indicated.
- 2 Place scale **2** over scale **1** so the top edge of scale **2** is aligned with the focal length in use and the distance is aligned with the central indicator line of scale **1**.
- 3 Read the scale **2** numbers that correspond to the aperture in use. For example, if the lens is prefocused at 1m with the focal length at 28mm and the aperture at f/22, the depth of field will be approx. 0.6m to infinity.

### Minimum Aperture Lock (Fig. 2)

For programmed auto or shutter-priority auto exposure shooting, use the minimum aperture lock lever to lock the lens aperture at f/22.

- 1 Set the lens to its minimum aperture (f/22) by aligning it with the aperture index.
- 2 Slide the lock lever toward the aperture ring, so the two orange dots are aligned. To release the lock, slide the lever in the opposite direction.

### Recommended Focusing Screens

Various interchangeable focusing screens are available for certain Nikon SLR cameras to suit any picture-taking situation. The ones recommended for use with this lens are:

Screen Camera	EC-B EC-E	A	B	C	D	E	F	G1	G2	G3	G4	H1	H2	H3 H4	J	K	L	M	P	R	S T	U
<b>F5+DP-30</b>	⊙	⊙	⊙		—	⊙	—			○		—	—	—	⊙	—	⊙		—	—	—	
<b>F5+DA-30</b>	⊙	⊙ (+0.5)	⊙ (+0.5)			⊙ (+0.5)	—					—	—	—	⊙	—	⊙ (+0.5)		—	—	—	
<b>F4+DP-20</b>	—	—	⊙		—	⊙				○		—	—	—	⊙ (+0.5)	⊙ (+0.5)	—		⊙ (+0.5)	—	—	
<b>F4+DA-20</b>	—	—	⊙ (+0.5)			⊙ (+0.5)						—	—	—	⊙ (+0.5)	⊙ (+0.5)	—		⊙ (+0.5)	—	—	
<b>F3</b>	—	⊙	⊙			⊙	—			○				○	⊙	⊙	⊙		⊙	△	⊙	

⊙ Excellent focusing

○ Acceptable focusing

Slight vignetting or moiré patterns appear in the viewfinder, but not on the film.

△ Acceptable focusing

The in-focus image in the central spot may prove to be slightly out of focus on film. Focus on the surrounding matte area.

— Not available.

( ) Indicates degree of exposure compensation needed (Center-Weighted metering only).

Blank box means not applicable. Since type M screen can be used for both macrophotography at a 1:1 magnification ratio and for photomicrography, it has different applications than other screens.

When using the B, E, K2, B2 and E2 focusing screens in cameras other than those listed above, refer to the columns for the B, E and K screens.

## Taking Flash Pictures with Cameras having Built-in Flash

Check the focal length and shooting distance before taking flash pictures to prevent vignetting from occurring.

Cameras	Usable focal length / Shooting distance
F60-Series/N60*, F50-Series/N50*, F-601/N6006*, Pronea S	Not usable at any focal length setting
F70-Series/N70*, Pronea 600i/6i*	35mm / 3m (9.8 ft.) or greater
F80-Series/N80-Series*	35mm / 1.5m (4.9 ft.) or greater
F65-Series/N65-Series*, F55-Series/ N55-Series*	Not usable at any focal length setting
D100	24mm / 0.8m (2.6 ft.) or greater
D70	20mm to 24mm / 2.5m (8.2 ft.) or greater 28mm / 1m (3.3 ft.) or greater 35mm or longer / No restriction

\* Sold exclusively in the U.S.A.

## Attaching Bayonet Hood HB-23

Align the index (●) on the hood with the lens hood mounting index on the lens, and turn the hood counterclockwise (as viewed from the camera) until it click stops at the index (—○).

To facilitate attachment or removal of the hood, hold it by its base rather than its outer edge. To store the lens hood, you can attach it in the reverse position.

## Lens Care

- Clean the lens surface with a blower brush. To remove dirt and smudges, use a soft, clean cotton cloth or lens tissue moistened with ethanol (alcohol) or lens cleaner. Wipe in a circular motion from center to outer edge, taking care not to leave traces or touch other parts.
- Never use thinner or benzene to clean the lens as this might damage the lens, result in a fire, or cause health problems.
- To protect the front lens element, an NC filter is recommended at all times. A lens hood also helps protect the front of the lens.
- When storing the lens in the lens case, attach both front and rear caps.
- When the lens will not be used for a long time, store it in a cool, dry place to prevent mold. Also store the lens away from direct sunlight or chemicals such as camphor or naphthalene.
- Do not get water on the lens or drop it in water as this will cause it to rust and malfunction.
- Reinforced plastic is used for some parts of the lens. To avoid damage, never leave the lens in an excessively hot place.

## Supplied Accessories

77mm snap-on front lens cap

Rear lens cap LF-1

Bayonet hood HB-23

Hard Case CL-76

## Optional Accessories

77mm screw-in filters, including circular polarizing filter\*

Teleconverter TC-14A

Teleconverter TC-201

\* With a circular polarizing filter, vignetting occurs at 17mm. Lens hoods HN-29 and HN-34 can be used only at a focal length of 35mm.

## Specifications

Type of lens:	D-type AF-S Zoom-Nikkor lens having built-in CPU and Nikon bayonet mount
Focal length:	17mm – 35mm
Maximum aperture:	f/2.8
Lens construction:	13 elements in 10 groups (2 glass mold aspherical, 1 compound aspherical and 2 ED lens elements)
Picture angle:	104° – 62° (91° – 52° with IX240 system cameras, 79° – 44° with Nikon D2H, D1-Series, D100 and D70 Digital Cameras)
Focal length scale:	17, 20, 24, 28, 35mm
Distance information:	Output to camera body
Zooming:	Manually via separate zoom ring
Focusing:	Nikon Internal Focusing (IF) system (utilizing an internal Silent Wave Motor); autofocus with manual override or manually via separate focus ring
Shooting distance scale:	Graduated in meters and feet from 0.28m (1 ft.) to infinity ( $\infty$ )
Aperture scale:	f/2.8 – f/22 on both standard and aperture-direct-readout scales
Minimum aperture lock:	Provided
Diaphragm:	Fully automatic
Exposure measurement:	Via full-aperture method with AI cameras or cameras with CPU interface system; via stop-down method for other cameras.
Attachment size:	77mm (P = 0.75mm)
Dimensions:	Approx. 83mm dia. x 106mm extension from the camera's lens mounting flange; overall length is approx. 115mm
Weight:	Approx. 745g (26.3 oz.)