Nikon EL-Nikkor

• Enlarging Lenses •

50mm f/2.8N 50mm f/4N

63mm f/2.8N 75mm f/4N

80mm f/5.6N 105mm f/5.6N

Nikon

INSTRUCTION MANUAL

English E

/Nomenclature/

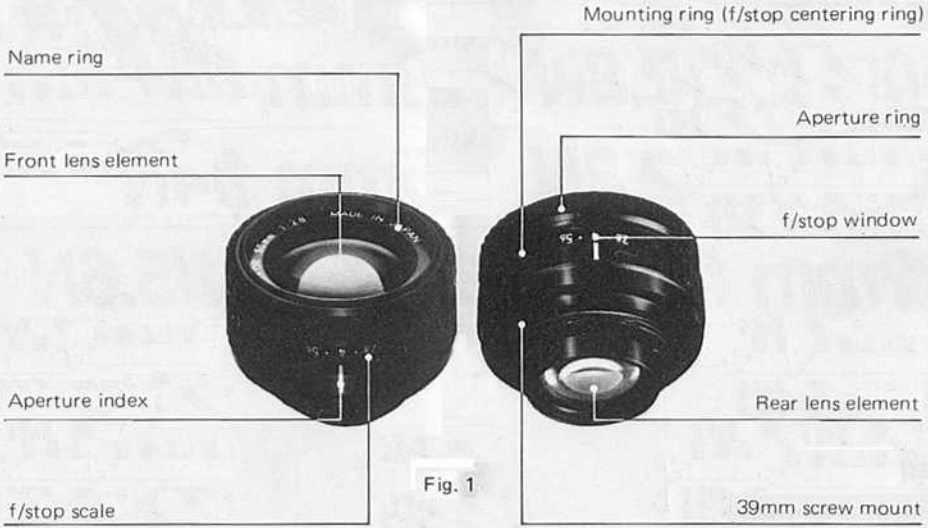

Fig. 1

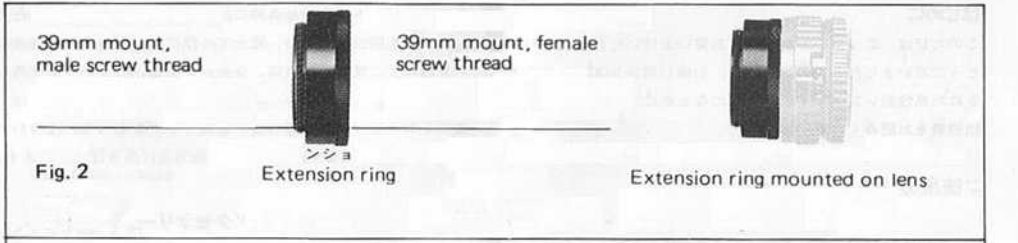

Fig. 2 Extension ring

Extension ring mounted on lens

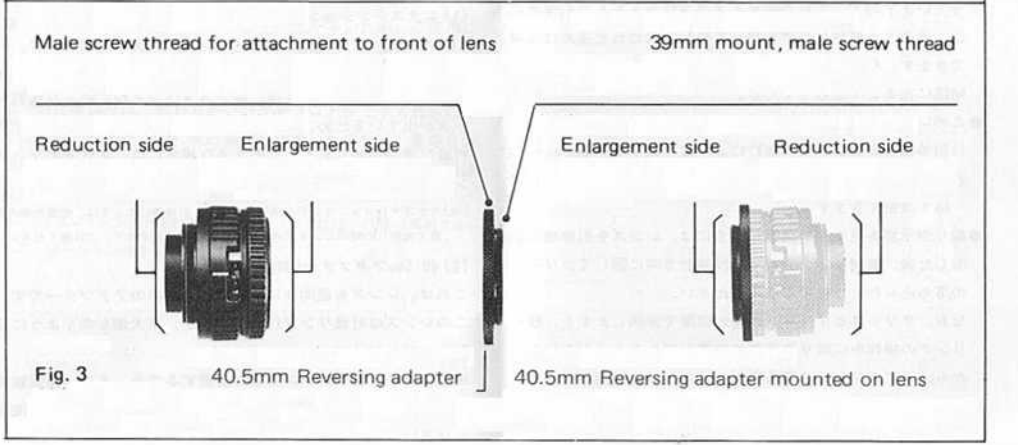

Fig. 3 40.5mm Reversing adapter

40.5mm Reversing adapter mounted on lens

Foreword

These EL-Nikkors are improved versions of the famous EL-Nikkor enlarging lenses of the same focal lengths. Their wide maximum apertures produce bright and easy-to-focus images even when you are enlarging dense negatives. They also feature transilluminated f/numbers and adjustable f/stop windows for convenience while working in the darkroom.

Mounting the lenses

These EL-Nikkors utilize a 39mm screw mount (P=1/26"), so they can be used with virtually any enlarger. To mount a lens, grasp its mounting ring and screw the lens clockwise until it doesn't move anymore; otherwise the lens will not be firmly seated. To position the f/stop window in front, rotate the mounting ring (f/stop centering ring) counterclockwise until the window is where you want it. Click-stops are provided at 30° intervals. Be sure to set the ring to a click-stop; otherwise, the f/stop window may shift while you're changing the aperture.

Removing the lenses

To remove these lenses from the enlarger, hold the mounting ring and turn it counterclockwise. As it is turned, you'll feel the click-stops. After the last stop, apply a little more force to loosen the lens completely. Then continue turning until the lens comes off.

For enlargers having slide-in lens boards

Because of their protruding rear lens elements, these EL-Nikkors may require the use of an optional 15mm EL-Extension Ring. First, screw the extension ring into the back of the lens. Then, screw the ring, plus lens, into the enlarger's lens board. (See Fig. 2.) However, please realize that the use of an extension ring may limit the enlarger's capability of making really big enlargements.

Mounting the lenses in reverse

To mount these EL-Nikkors on a process camera or to make reductions instead of enlargements with your enlarger, you can use the optional 40.5mm Reversing Adapters to mount the lenses in the reverse position. First, screw the adapter ring into the front of the lens; then mount the ring, plus lens, to the camera or enlarger. When a lens is mounted in the reverse position, its f/stops are no longer illuminated nor is it possible to adjust its f/stop window. (See Fig. 3.)

Using the lenses in the darkroom

For focusing and composing the image on the easel, open up the lenses to their maximum apertures. Then, just prior to exposure, stop the lenses down by two or three stops to ensure maximum corner-to-corner sharpness and the highest possible resolution.

Tips on lens care

* Always keep the lens surfaces clean, as dust or fingerprints can interfere with image sharpness. Use a soft brush—never cloth or tissue—to remove dust. Stubborn smudges should be wiped with lens tissue moistened with alcohol or lens cleaner.
* When the lens is not in use, remove the lens from the enlarger and store it in its plastic lens case with a desiccant or in a dry place away from darkroom chemistry.
* Darkroom chemicals can cause corrosion or damage to the coating on optical surfaces of the lens. Therefore, if you get chemicals on the lens, clean them off immediately. In severe cases, consult your nearest dealer.

Accessories

15mm EL-Extension Ring (optional)
40.5mm Reversing Adapters for EL 40mm f/2.8N, 63mm f/2.8N, 105mm f/5.6N (optional)

Specifications

	EL-Nikkor 50mm f/2.8N	EL-Nikkor 50mm f/4N	EL-Nikkor 63mm f/2.8N	EL-Nikkor 75mm f/4N	EL-Nikkor 80mm f/5.6N	EL-Nikkor 105mm f/5.6N
Focal length	52.1mm	51.7mm	62.9mm	74.9mm	80.1mm	105.5mm
Maximum aperture	f/2.8	f/4	f/2.8	f/4	f/5.6	f/5.6
Optical construction	6 elements in 4 groups	4 elements in 3 groups	6 elements in 4 groups	4 elements in 3 groups	6 elements in 4 groups	
Picture angle	46°			52°	56°	51°
Aperture scale	f/2.8 ~ f/16	f/4 ~ f/22	f/2.8 ~f/16	f/4 ~ f/22	f/5.6 ~ f/32	
Corrected wavelength range	380 ~700mμ					
Standard magnification	8X			5X		
Usable magnification range	2X ~ 20X			2X ~ 10X	2X ~ 15X	2X ~ 10X
Maximum film size	24mm x 36mm (43.2mm diagonal)		32mm x 45mm (55.2mm diagonal)	60mm x 60mm (80mm diagonal)	60mm x 70mm (95mm diagonal)	60mm x 90mm (120mm diagonal)
Mount	39mmφ screw mount (P=1/26")					
Attachment size	40.5mmφ (P=0.5mm)					
Dimensions	51mmφ x 39mm long (overall)	51mmφ x 33mm long (overall)	51mmφ x 42.5mm long (overall)	51mmφ x 33mm long (overall)	51mmφ x 38.5mm long (overall)	51mmφ x 40mm long (overall)
Weight	105g	85g	120g	95g	100g	110g

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