

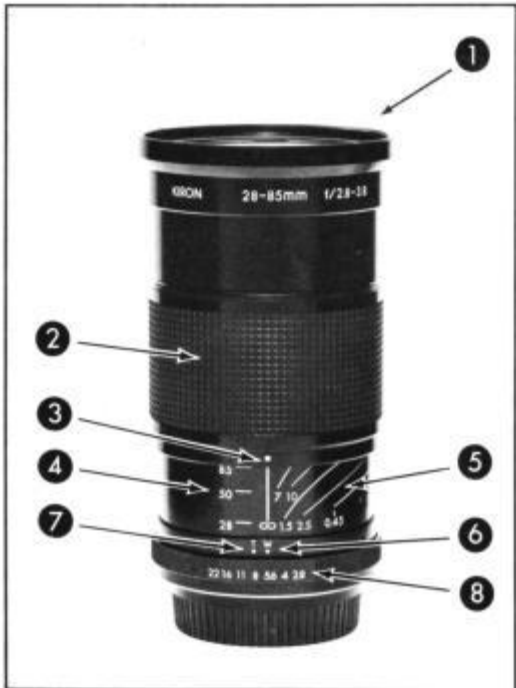
KIRON

Varifocal Macro-Focusing Zoom

28-85mm

f2.8/3.8

Instructions





A



B

Your new Kiron 28-85mm f2.8/3.8 Varifocal Macro-Focusing Zoom lens is the product of advanced optical design and precision mechanical engineering. We suggest you take a moment or two to familiarize yourself with its features and operation. With proper care, it will provide you with a lifetime of outstanding service.

Features

- 1) 67mm Accessory Thread
- 3) Zoom/Focus Ring
- 3) Distance Index
- 4) Focal Length Settings
- 5) Distance Scales
- 6) Wide Angle Aperture Index
- 7) Telephoto Aperture Index
- 8) Aperture Ring

Mounting

Your Kiron lens is designed to be totally compatible with all mounting and exposure mechanisms in your camera. You may therefore follow the standard procedures outlined in your camera owner's manual.

WARNING!

Kiron Match Mate™ teleconverters are designed to be used with certain Kiron zoom lenses only. They may not be optically or mechanically compatible with other lenses, particularly lenses with a focal length of 50mm or less. You should not attempt to mount such lenses onto your Kiron Match Mate. You may damage both your lens and the Match Mate.

Focusing

Focus carefully. Your Kiron 28-85mm f2.8/3.8 lens has a varifocal design, meaning you must refocus as you change focal lengths. This lens will focus as close as 10.2 in. (0.26 m) in the 28mm position, allowing a maximum reproduction ratio of 1:4.

Exposure Settings

The effective aperture of this lens changes according to focal length, transmitting approximately one stop more light at 28mm than at 85mm. How you compensate for this will depend on your method of setting exposure.

With **automatic exposure cameras** the exposure system will compensate by automatically changing either the aperture or the shutter speed.

With **match needle (or match diode) cameras** you must manually readjust either the aperture or shutter speed as you zoom, according to the meter's recommendations.

If you are using a **hand-held exposure meter** or **electronic flash** you must manually set the lens to the proper aperture index. For example, if your exposure meter or electronic flash unit requires an exposure setting of $f5.6$ and the lens is at 28mm, you would set the Aperture Ring (8) to the Wide Angle Aperture Index (6). (See photo A.) If you then zoomed to 85mm, you would move the Aperture Ring to the Telephoto Aperture Index (7). (See photo B.) When the lens is at the 50mm focal length, or as a convenience during rapid shooting, you should set the required aperture between the two aperture indices.

Special Notice for Canon A-1 and AE-1 owners

The maximum aperture of your Kiron 28-85mm lens is $f2.8$ when the lens is used at 28mm, and shifts to $f3.8$ when the lens is used at 85mm. As far as the meter readout in your

camera is concerned, however, the lens can only have a single maximum aperture. We have therefore adjusted this lens to indicate a maximum aperture halfway between f2.8 and f3.8; i.e., f3.5. **This adjustment has no effect on exposure accuracy, nor does it reduce your lens' true maximum aperture.**

Lens Care

When using your lens, take normal care to protect the front element from fingerprints, dirt, sand, and water. Many photographers use a Skylight 1A or a UV filter for this purpose.

Remove dust with a soft lens brush or a gentle puff of compressed air. Remove fingerprints or other marks with **photographic** lens tissue moistened with **photographic** lens cleaner. Never rub the lens with dry tissue or any other material, since this can scratch the coating.

When your lens isn't being used, store it in a cool, dry place with both front and rear lens caps in place. If you live in a humid climate, store the lens with the supplied package of silica gel.

Specifications

Optical Construction: 14 elements/11 groups. Multicoated.

Accessory Size: 67mm

Angles of Acceptance: 74° – 29°

Aperture Range

(@ 28mm: f2.8 – f16)

(@ 85mm: f3.8 – f22)

Minimum Focusing Distance from Film Plane: 0.26 m

(10.2 in.)

Maximum Reproduction Ratio: 1:4 (1/4 life-size) (@ 28mm)

Length at Infinity Focus

(@ 28mm: 105 mm (4.2 in.))

(@ 85mm: 120 mm (4.8 in.))

Barrel Diameter: 70 mm (2.8 in.)

Weight: 658 g (1.45 lb.)

Specifications subject to change without notice. Weights and measures vary slightly according to lens mount.

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