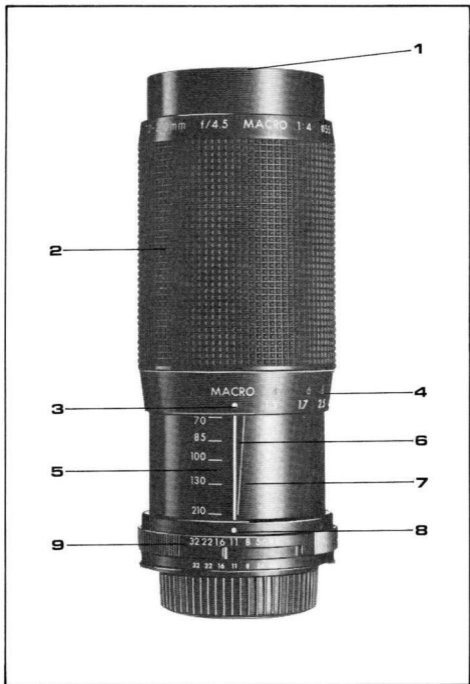


KIRON

**70-210mm f4.5
Macro Focusing Zoom**

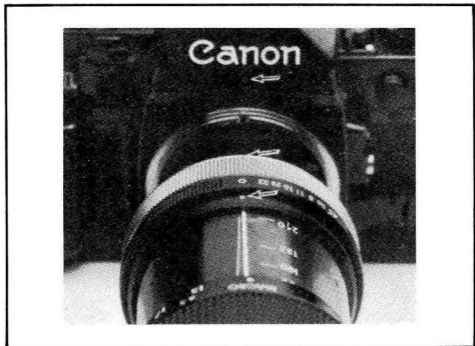
Instructions



Your new Kiron 70-210mm f4.5 Macro Focusing Zoom is the product of advanced optical design and precision mechanical engineering. It's also easy to use. Simply take a few minutes to familiarize yourself with the following description of features and general instructions. With proper use and care, your Kiron 70-210mm f4.5 will provide you with years of outstanding service.

Features

1. 55mm Filter Threads
2. Zoom/Focus Control
3. Macro Focus Index Mark
4. Distance Scales
5. Focal Length Index Marks
6. Distance Index Line
7. Infrared Focus Line
8. Aperture Index Mark
9. Aperture Ring*



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Mounting the Lens

Nikon, Pentax, Minolta, Olympus, Konica, Yashica/Contax mounts—Use the standard procedure for mounting your camera brand lenses.

Canon mount—Canon mount Kiron lenses have a black mounting ring. Mount the lens as shown in photo A, with all three index marks aligned. Turn the mounting ring clockwise to lock the lens onto your camera.

Exposure Settings

Nikon, Pentax, Minolta, Olympus, Konica, Yashica/Contax mounts—Use the same metering procedures you would use with your camera brand lenses.

Canon mount—Canon mount Kiron lenses have a slightly different aperture ring than Canon brand lenses. Canon brand lenses have a green “A” on the aperture ring for the various automatic exposure modes. Kiron lenses have a blue “O”. The settings and functions are the same; only the marks are different.

Zooming and Focusing

Twist the Zoom/Focus Control to focus; push or pull to zoom. You may find it easier to focus with the Zoom/Focus Control set at 210mm.

You can then zoom to the image size you want, being careful not to change focus. (Note: The plane of focus for infrared radiation is different from that of light. When using infrared films you must therefore move the focus setting to the Infrared Focus Line.)

Macro Focusing

For the maximum image magnification (1/4 life-size), set the Zoom/Focus Control to 210mm and turn it so that the orange Macro Focus Index Mark (5) aligns with the red Aperture Index Mark (10). Next, move toward your subject until it's in focus. It should come into focus approximately 35.5 inches (90 cm) from the front lens element. If the image is too large, simply zoom to a shorter focal length. The image will stay in focus.

How to Get the Most From Your Lens

The steadier your camera, the sharper the picture. Camera motion can blur your pictures just as easily as subject motion. Your minimum shutter speed for hand-held photography should therefore be no lower than 1/125 second. When using slower shutter speeds, take care to properly brace yourself or place the camera on some form of steady support.

Choose your optical accessories with the same regard for quality you used when buying this lens. Low-quality filters, teleconverters, and extension tubes will compromise the high-quality results you expect from your Kiron 70-210mm f4.5.

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 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 of any other material, since this can scratch the coatings.

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

Specifications

Aperture Range: f4.5 - f22

Angles of Acceptance: 34.0° - 11.5°

Optical Construction: 12 elements, 9 groups

Maximum Reproduction Ratio: 1:4 at 210mm

Minimum Focusing Distance from Film Plane:

1.08 05m (42.5 in.)

Length at Infinity Focus: 137.7mm (5.5 in)

Maximum Barrel Diameter: 63mm (2.5 in)

Accessory Size: 55mm

Weight: 580g (20.5 oz)

Weight and length may vary according to lens mount.
Specifications subject to change without notice.

Kiron Corporation
Carson, CA 90746 USA

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