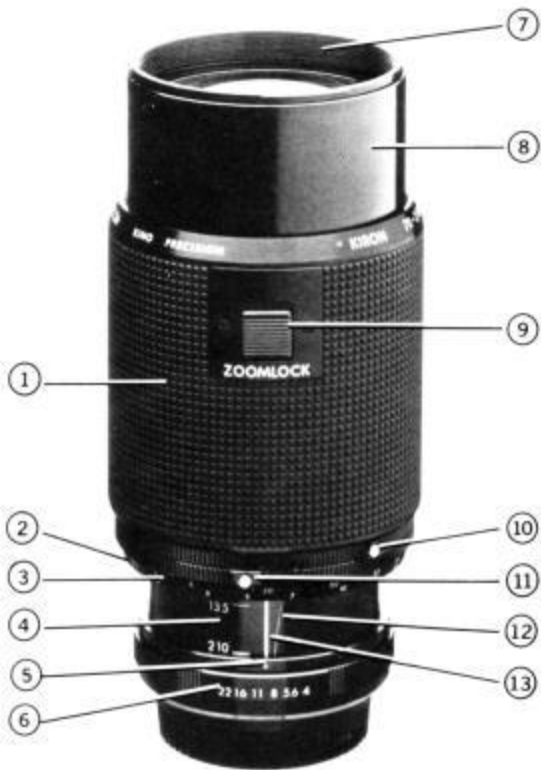


# **KIRON**

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## **70-210mm f4 Macro Focusing Zoom**

**Instructions**



A

Your new Kiron 70-210mm f4 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 will provide you with years of outstanding service.

## Features

1. Zoom/Focus Control
2. Macro Focus Index Mark
3. Distance Scales
4. Focal Length Index Marks
5. Aperture Index Mark
6. Aperture Ring
7. 62mm Filter Threads
8. Non-Rotating Front Barrel
9. Zoomlock™ Switch
10. Focustop™ Control
11. Focustop™ Control
12. Infrared Focus Line
13. Distance Index Line



**B**

## 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 chromed mounting ring. Mount the lens as shown in photo B, 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.)

Also note that the front barrel (8) doesn't rotate as you zoom or focus. Very few zoom lenses have this feature. The non-rotating front barrel eliminates the inconvenience of having to reset a polarizing filter or other special-effect filters each time you change zoom or focus settings.

## Macro Focusing

For the maximum image magnification (1/4 life-size), set the Zoom/Focus Control to 210mm and turn it so that the Macro Focus Index Mark (2) aligns with the red Aperture Index Mark (5). Next, move toward your subject until it's in focus. It should come into focus approximately 37 inches (94 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.

## Using the ZOOMLOCK™ Mechanism

This exclusive feature allows you to lock-in any focal length you choose so you can concentrate on focusing and bracing the lens. Move the ZOOMLOCK™ Switch back toward the camera to lock-in the desired focal length. Move it forward to unlock the zoom mechanism.

## Using the FOCUSTOP™ Controls

Focustop allows you to pre-set 1 or 2 of 35 different focusing distances between 5 meters (16 feet) and infinity. To set the stop(s), focus on a distance you wish to pre-set, depress one of the controls (10 or 11, photo A), and turn the knurled ring until the control (or red dot in the case of Nikon mount) lines up with the Distance Index Line (13). Twist the Zoom/Focus Control (1) slightly, until you feel the stop. When you hear the "click", the stop has been correctly set. To set a second focusing distance, depress the second control and use the same procedure. When setting two focusing distances, use the control closest to the camera mount for the nearer distance; use the other control for the further distance. (For Nikon mount, use the control closest to the camera mount for the *further* distance; use the other control for the nearer distance.) NOTE: There are NO stops that can be set between macro and 5 meters (16 feet).

When two focusing distances have been set, you can then “rack” the focus quickly from one stop to the other. In this case, you may find it helpful to lock-in a focal length with Zoomlock, so your intended composition does not change.

To maintain a fixed focusing distance, align both controls at the same focusing distance. The focus cannot then inadvertently be shifted.

To restore full range of focusing distances, move the near control all the way to macro; move the other control all the way to infinity.

## **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.

## 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 or 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

**Kiron 70-210mm f4 Macro Focusing Zoom  
with Focustop™ and Zoomlock™**

Aperture Range: f4 - f22

Optical Construction: 13 elements, 9 groups

Lens Coating: Multicoated

Angles of Acceptance: 34° - 11°

Zoom Ratio: 3:1

Minimum Focusing Distance (from film plane):

1.15 m (45 in.)

Maximum Reproduction Ratio: 1:4

Accessory Thread Size: 62mm

Length at Infinity Focus: 153 mm (6 in.)

Maximum Barrel Diameter: 77 mm (3 in.)

Weight: 868 g (31 oz.)

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

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