

**KIRON** 

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**28-210mm f3.8-5.6**  
**Macro Focusing Zoom**

**Instructions**



Your new Kiron 28-210mm f3.8-5.6 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 28-210mm will provide you with years of outstanding service.

## Features

1. 72mm Filter Threads
2. Zoom/Focus Control
3. Distance Scales
4. Focal Length Index Marks
5. Distance Index Line
6. Infrared Focus Line
7. Wide Angle Aperture Index Mark
8. Telephoto Aperture Index Mark
9. Aperture Ring



**A**

## Mounting the Lens

**Nikon, Pentax, Ricoh, 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

The Kiron 28-210mm has a variable aperture, which means the effective aperture changes with the change in focal length. Approximately one stop more light is transmitted at the 28mm position than at the 210mm position.

Cameras with automatic metering systems will automatically compensate for this change, which means you may use the procedures for metering found in your camera's instruction book. This is also true when using a dedicated electronic flash unit. When using a non-dedicated flash unit, please be aware that you must set the appropriate aperture opposite the Wide Angle (7), or Telephoto (8) Aperture Index Mark, depending on the focal length you are using at the time.

## Macro Focusing

For the maximum image magnification (1/4 life-size), set the Zoom/Focus Control (2) to 210mm and turn it so that the orange Macro Index Mark aligns with the white Distance Index Line (5). Move toward your subject until it is approximately 35" (0.9 m) away from the front lens element, and appears in focus as you look through the camera's viewfinder. If the image is too large, simply zoom to a shorter focal length.

**NOTE:** The Kiron 28-210mm has been specifically designed for close-up photography in the 50mm - 210 mm range. A cammed focusing device has been incorporated in the 28mm - 50mm range. This guides the lens when you are doing close-up photography and helps you avoid

undesirable results. Also, for best results with *close-up photography* we recommend the lens be stopped down at least one stop from the maximum f/stop.

## **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 not be slower than 1/125 second. When using slower shutter speeds, take care to properly brace the camera on some form of steady support.

Choose optical accessories with the same regard for quality you used when buying this lens. Low-quality filters or teleconverters will compromise the high-quality results you expect from your lens.

## **Lens Care**

When using your lens, take normal care to protect the front element from fingerprints, dirt, sand, and water. 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 may scratch the coatings.

When your lens isn't being used, store it in a cool, dry place with the supplied package of silica gel, and with both lens caps in place. If you live in a humid climate, storing the lens with silica gel is especially important, to help prevent fungus from forming in the lens.

## Specifications

### **Kiron 28-210mm f3,8-5.6 Macro Focusing Zoom**

Aperture Range: f3,8 – f22 at 28mm  
f5.6 – f32 at 210mm

Optical Constructon: 14 elements, 11 groups

Lens Coating: Multicoated

Angles of Acceptance: 74 – 11.5 degrees

Zoom Ratio: 7.5:1

Minimum Focusing Distance (from film plane):  
1.1 m (3.6')

Maximum Reproduction Ratio: 1:4

Accessory Thread Size: 72mm

Overall Length: 128.7 mm (5.1")

Maximum Barrel Diameter: 75 mm

Weight: 840 grams (29.6 oz.)

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

## Notice to Owners of Pentax and Ricoh Program Cameras

The Kiron 28-210mm has a combined Pentax/Ricoh lens mount. For program mode with your camera, please set the lens as follows:

**Pentax.** Depress the lock button and turn the aperture ring so that the blue line next to the 'A' is in line with the W index mark. To use the minimum aperture of **f/22 at 28mm** and **f/32 at 210mm** when NOT in program mode, depress the lock button on the aperture ring, and turn the ring so that these apertures line up with the W and T index marks.

**Ricoh.** Depress the lock button and turn the aperture ring so that the minimum apertures of  $f/22$  and  $f/32$  line up with the W and T index marks. The minimum apertures available in other than program mode are  **$f/16$  at 28mm** and  **$f/22$  at 210mm.**

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pdf version created by boggy October 2013

Printed in Japan  
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