

LESTER A. DINE

105mm f2.8

MACRO LENS 1:1

**Instructions**



This lens is the product of advanced optical design and precision mechanical engineering. It is also very easy to use. Simply take a few minutes to familiarize yourself with the features and general instructions.

## **Specifications**

Aperture range: f2.8-f32

Angle of acceptance: 23.3 degrees

Optical construction: 6 elements, 6 groups

Maximum reproduction ratio: 1:1

Minimum focusing distance from film plane: 0.347m (1.14ft)

Overall length: 102.5mm (4.04 in.)

Maximum barrel diameter: 72mm (2.8 in.)

Accessory size: 52mm

Weight: 650g (22.75 oz.)

Weight and length may vary according to lens mount

## **Features**

1. 52mm filter threads
2. Reproduction ratio marks
3. Aperture index mark
4. Non-rotating front barrel
5. Built-in retractable lens hood
6. Focusing ring
7. Distance scales
8. Depth-of-field scale
9. Aperture ring

## **Mounting the Lens**

This lens mounts onto your camera as would a camera brand lens. Use the standard procedure provided with your camera instructions.

Camera mount lenses differ slightly from Canon brand lenses. When mounting Canon mount lenses, use the following procedures: Canon mount lenses have a black mounting ring immediately behind the aperture ring. Mount the lens onto the camera with index marks aligned, and turn the black mounting ring clockwise to lock the lens onto the camera.

## **Focusing**

This lens provides continuous focusing from infinity to 0.35 meters, where the reproduction ratio is 1:1 (life-size). Look through the viewfinder of your camera, and turn the focusing ring until the subject appears sharp and clear.

The distance scale is marked in meters (white) and feet (blue), indicating the distance from the subject to the film plane of the camera.

## **Reproduction Ratios**

The reproduction ratios is the relationship between the size of the image on the film and the actual size of the subject.

To photograph an object at a predetermined reproduction ratio of, for example, 1:2 (half life-size), turn the focusing ring until it lines up with the 1:2 mark on the lens barrel. Then move the lens closer to, or further from the subject, until it appears sharp in the viewfinder. Or, if the reproduction ratio is not known in advance, focus until you have the desired image in the viewfinder. Then read the achieved reproduction ratio on the lens barrel.

## **Depth of Field**

Depth of field refers to the area of acceptable focus in front of, and behind the plane of sharpest focus. There is a depth of field scale marked in white on the lens barrel. Aperture between  $f/16$  and  $f/32$  are recommended when photographing at close distances to compensate for the very small depth of field at such distances.

## **Camera and Lens Steadiness**

Because of the small depth of field and the high reproduction ratio during close up work, the slightest movement of the lens and camera can render unsharp pictures. For best results, use a tripod and a cable release.

## **Other Features**

**Non-rotating Front Barrel** – This lens is equipped with a non-rotating front barrel, which means that the front accessory thread mount does not rotate when the lens is focused. Position sensitive filters (polarizers, special effect filters, etc.) retain their orientation as the lens is focused.

**Built-in Lens Hood** – This lens has a built-in, retractable lens hood which, when extended, will help control stray light.

The lens elements are multicoated, and the lens edges are handblackened to enhance contrast and color rendition.

## **General Information**

Take normal care to protect your lens from fingerprints, dirt, sand and water. Remove dust with a soft lens brush, or gentle puff of compressed air. Remove fingerprints or other marks with photographic lens cleaning solvent and tissue. Never rub the lens with dry tissue or other material, since this may scratch the coating. Avoid exposing the lens to excessive humidity or heat.

## **Warranty**

This lens is warranty to be free from defects in material and workmanship for a period of one(1) year from the original date of purchase. Within this period, the product will be repaired without charge for any such defects. Product which has been subject to misuse, abuse, alternation, negligence, accident or repair services by an unauthorized party is excluded from this warranty.

In order to obtain service under this warranty, pack the product carefully and return it to Lester A. Dine, Inc. The sender must prepay all postage, shipping and insurance costs. Proof of purchase date must be provided for all warranty repairs. After service has been completed, the product will be returned to you with shipping/ insurance costs prepaid.

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