

**User Manual**  
**MAK 1000 "MC MTO-11CA"**

**1. General information**

The "MAK 1000" photo lens is designed as an interchangeable lens for SLR cameras, e.g. of the ZENIT brand with an M42x1 thread, a shutter and manual aperture control. The lens is suitable for both black and white and color photography. Your telephoto lens can be used for a wide range of applications. It can bring distant objects close up or photograph details in landscapes.

**2. Technical characteristics**

Lens focal length	1000 mm
Geometric relative focal ratio	f/10
Field of view size	2,5°
Image field size	45.5 mm
Camera connection thread	M42x1
Lens thread for screw-in filters	M116x1
Focusing range	from 8 m to infinity
Lens length with infinity focusing	238 mm
Lens diameter	126 mm
Weight without cover and filter	2.5 kg

**3. Package content**

Photo lens „MAK 1000“	1 pc.
Lens cover	1 pc.
Screw cap for camera-side connection	1 pc.
Bag for lens	1 pc.
Instruction manual	1 pc.

**4. The lens in detail**

- 1 Retractable dew shield or sun visor
- 2 Focusing ring with front sight
- 3 Tripod thread connection 1/4" and 3/8 inch (2x offset by 90°)

The M116x1 thread on the lens is intended for screwing in light filters.

To focus, turn ring 2 until the camera image appears sharp. A front sight is located behind the focusing ring to make it easier to take pictures of distant objects.

**5. Photography with the lens**

5.1 To attach the lens to your camera, first unscrew the rear cap and then carefully screw the lens onto the body of your camera. To prepare the shot, first remove the front cap and then point the lens at the object to be photographed. Focus and release the shutter and -voila- the shot is taken.

5.2 Due to the weight of the lens, please use a tripod to avoid blurred images. The lens has two different tripod thread connections: 3/8" and 1/4".

5.3 To connect other cameras via T2 thread, Teleskop-Service offers transition adapters.

Adapter to T2 (T-thread) ... TSM42-T2

Various T2 adapters for all common camera mounts

Teleskop-Service has specially extended the focal plane of the photo lens to allow focusing with all common cameras.

## **6. Notes on your telephoto lens**

6.1 Handle your new camera lens very carefully and avoid knocks! Only have the lens repaired in a specialist workshop, your contact in Germany is "Teleskop-Service Ransburg GmbH" (see invoice for contact details)

6.2 Do not use the lens at temperatures below -30 °C or above +45 °C. If you bring the lens in the storage bag from a cold to a warm environment, do not open the bag for at least 3 hours to prevent dew from forming on the lenses.

6.3 Always keep the telephoto lens in its case during longer periods of storage. Avoid hard knocks, extreme humidity and extreme temperature fluctuations! Dust on the objective lens is best removed using a clean and fine brush. Remove fingerprints etc. with a microfiber cloth slightly moistened with spirit.

For professional cleaning, we recommend the TS CleanerKit.

## **7. Warranty**

The lens meets all technical standards.

Teleskop-Service provides a 24-month warranty from the date of purchase.

Defects and problems caused by incorrect storage and incorrect operation are excluded from the warranty. In case of a warranty claim, please return the lens including the enclosed accessories and warranty certificate to your dealer.

Please also enclose a brief description of the fault.

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