Features

- Fast f/1.4 aperture
- Precise manual focusing
- Robust full-metal construction
- Fixation for focus and aperture
- Identical color reproduction of all models
- For industrial cameras with F-Mount up to sensor sizes of 24x36 mm or 43mm line sensors.

**ZF-I: Industrial Edition**
Features special screws to fix focus and aperture settings even in rough situations.

**Camera Mounts**
Available with ZF.2, EF and M42 mount.
## ZEISS Planar T* 1.4/50

### Technical Specifications

**Focal length** 50 mm  
**Aperture range** f/1.4 – f/16 (1/ 2 stop intervals)  
**Number of elements / groups** 7 / 6  
**Min. working distance (object to sensor)** 450 mm (1.48 ft) – ∞  
**Min. free working distance** 351mm (1.15 ft) – ∞  
**Angular field* (diag. / horiz. / vert.)** 45 / 38 / 26 °  
**Max. diameter of image field** 43 mm (1.7”)  
**Flange focal length** F-Mount: 46.5 mm (1.8”); M42-Mount: 45,5 mm  
**Coverage at close range** 160 x 240 mm (6.3 x 9.4”), line 288 mm (11”)  
**Image ratio at close range** 1:6.7  
**Filter-thread** M 58 x 0.75  
**Weight** 330 g (0.66 lbs.)  
**Camera mount** F bayonet, M42, EF

* referring to 35 mm format
**Relative Illuminance**

The relative illumination shows the decrease in image brightness from the image center to the edge in percent.

- f-number 1.4
- … f-number 4

**Relative Distortion**

The relative distortion shows the deviation of the actual image height from the ideal one in percent.

*Data for infinite focus setting*
The Modulation Transfer (MTF) as a function of image height ($u$) and slit orientation (sagittal, tangential) has been measured with white light at spatial frequencies of $R = 10$, 20, and 40 cycles/mm. The MTF charts are valid for the ZF, ZF-I version and for white light.

- f-number 1.4
  - Sagittal
  - Tangential

- f-number 4
  - Sagittal
  - Tangential

*Data for infinite focus setting / Not for IR version
ZEISS Planar T* 1.4/50

Spectral Transmission: Classic Planar T* 1.4/50

Transmission [%]

nm
The diameter of the camera/lens adapter must not exceed 55 mm at the lens side!