



# ZEISS Distagon T\* 2,8/25



## Features

- f/2.8 aperture
- Precise manual focusing
- Robust full-metal construction
- Identical color reproduction of all models
- For industrial cameras with F-Mount up to sensor sizes of 24x36 mm or 43mm line sensors.
- Very short free working distance (60 mm)

### **ZF-I: Industrial Edition**

Features special screws to fix focus and aperture settings even in rough situations.

### **ZF-IR: Infrared Edition**

Features special coating for optimized performance in near-infrared applications.

### **Camera Mounts**

Available for other camera mounts such as EF, or M42 screw mount.



Technical drawing of a 100mm f/4.5 lens. The drawing shows the front and side views of the lens assembly. Key dimensions and specifications are labeled:

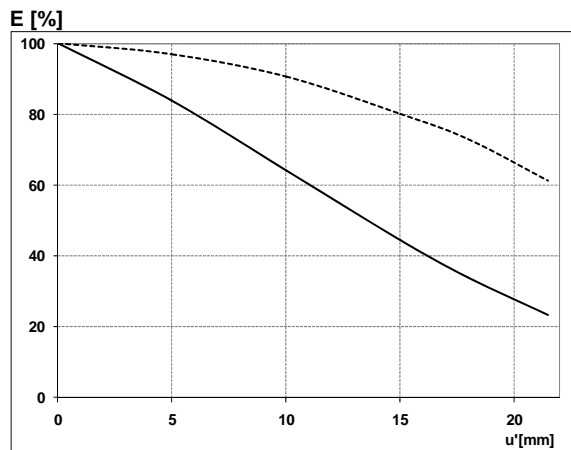
- Top View:**
  - Overall diameter:  $\varnothing 61.4$
  - Inner diameter:  $\varnothing 58.9$
  - Outer diameter:  $\varnothing 61.8$
  - Inner diameter:  $\varnothing 63.4$
  - Outer diameter:  $\varnothing 61.8$
  - Inner diameter:  $\varnothing 64.4$
  - Outer diameter:  $\varnothing 64.4$
- Side View:**
  - Overall length: 46.5
  - Front element thickness: 4.5
  - Front element diameter:  $\varnothing 61.8$
  - Front element diameter:  $\varnothing 63.4$
  - Front element diameter:  $\varnothing 61.8$
  - Front element diameter:  $\varnothing 64.4$
  - Front element diameter:  $\varnothing 64.4$
- Optical Specifications:**
  - Aperture: M58 P=0.75
  - Mount: M42
  - Filter thread:  $\varnothing 42$
  - Aperture range: f/4.5 to f/22
  - Aperture values: 4.5, 5.6, 8, 11, 16, 22
  - Aperture values: 2, 2.8, 4, 5.6, 8, 11, 16, 22
  - Aperture values: 2, 2.8, 4, 5.6, 8, 11, 16, 22
  - Aperture values: 2, 2.8, 4, 5.6, 8, 11, 16, 22

\* referring to 35 mm format



# Distagon T\* 2,8/25

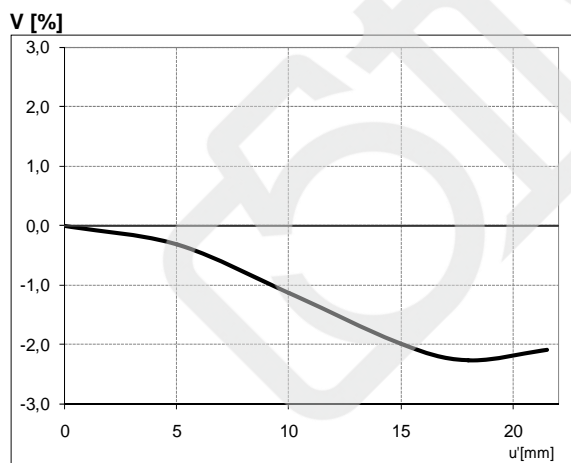
## Relative Illuminance\*



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

— f-number 2.8  
... f-number 5.6

## Relative Distortion\*



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

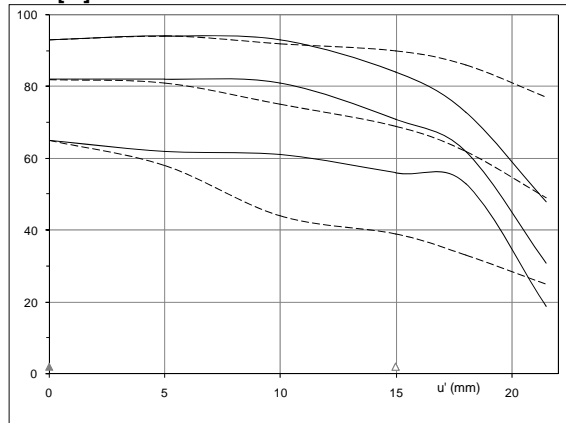
*\*Data for infinite focus setting*



# Distagon T\* 2,8/25

## MTF Charts\*

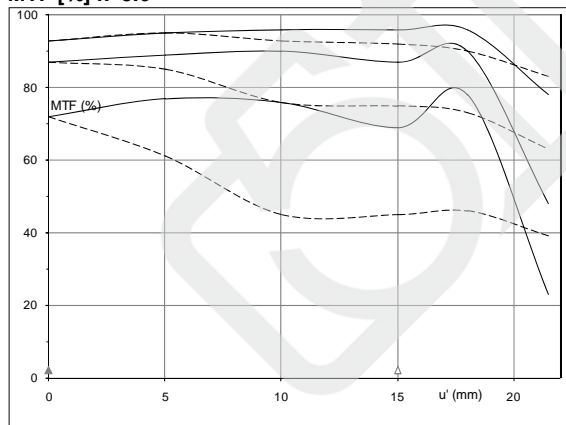
MTF [%]  $k=2.8$



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 2.8  
— Sagittal  
... Tangential

MTF [%]  $k=5.6$



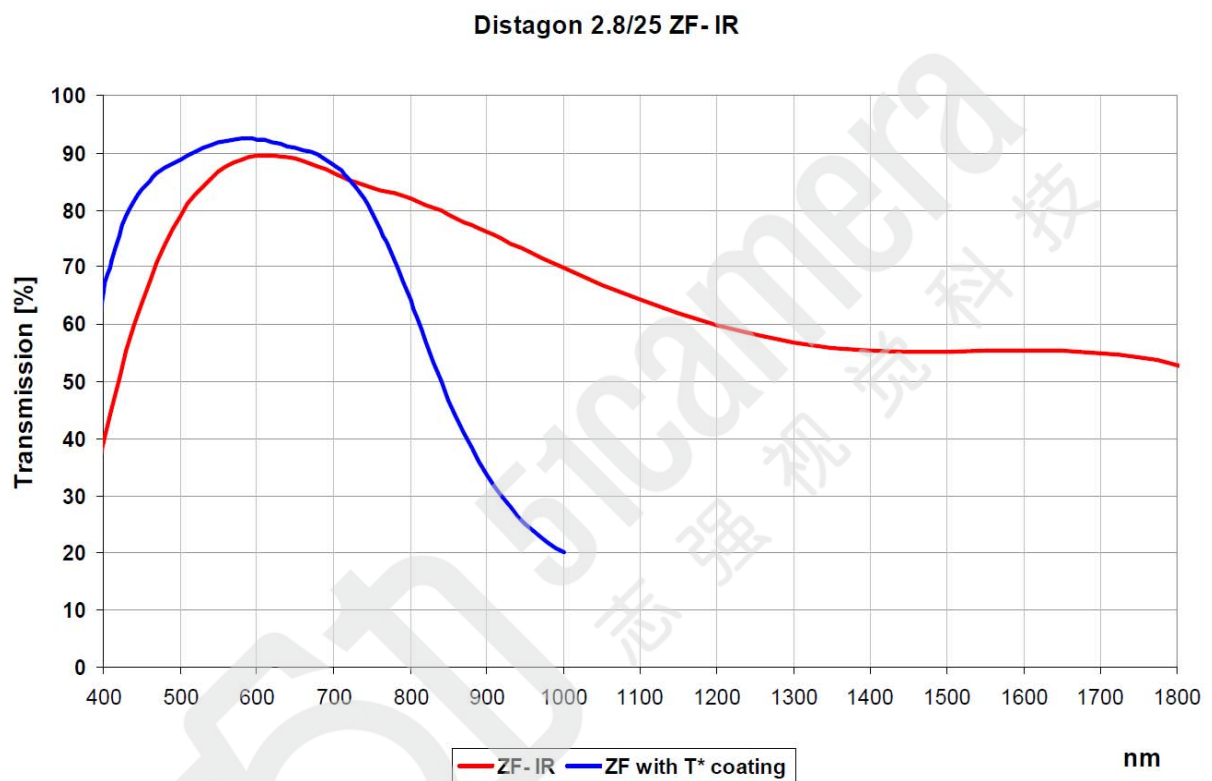
f-number 5.6  
— Sagittal  
... Tangential

*\*Data for infinite focus setting / Not for IR version*



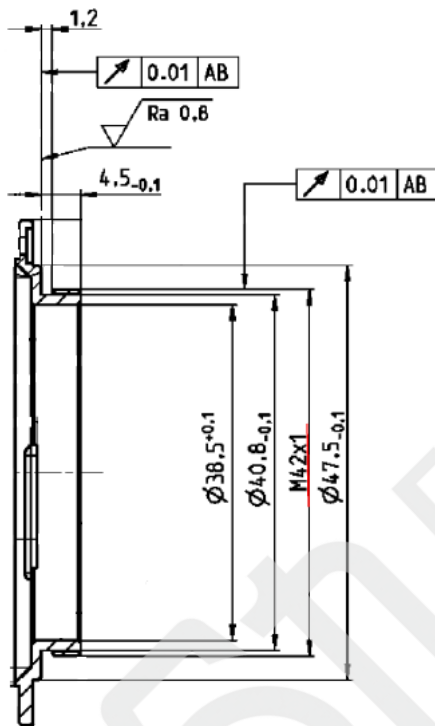
# Distagon T\* 2,8/25

## Spectral Transmission ZF vs. ZF-IR





# Distagon T\* 2,8/25



M42 Mount for 45,5 mm Flange Focal Distance

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