Tessar[®] T* f/2.8 - 45 mm



CONTAX®/YASHICA® mount

Since its introduction 80 years ago, the **Tessar**[®] lens has constantly been undergoing improvements. As the "eagle eye of your camera" it already enjoyed a legendary reputation decades ago.

With approx. 90 g, the 45 mm **Tessar**[®] T* f/2.8 lens is the lightweight among the standard lenses for the **Contax**[®] camera system.

A standard lens with excellent image quality, also particularly suitable for photography at celebrations and sports events.

Cat. No.: Number of elements: Number of groups: Max. aperture: Focal length: Negative size: Angular field 2w*: Aperture scale: Mount:	10 03 46 4 3 f/2.8 46.5 mm 24 x 36 mm diagonal 51° 2.8 - 4 - 5.6 - 8 - 11 - 16 - 22 focusing mount with bayonet; TTL metering either at full aperture	Focusing range:∞ to 0.6 mPosition of entrance pupil:10.5 mm behind the first lens vertexDiameter of entrance pupil:16.3 mmPosition of exit pupil:5.7 mm in front of the last lens vertexDiameter of exit pupil:15.4 mmPosition of principal plane H:6.9 mm behind the first lens vertexPosition of principal plane H:9.1 mm in front of the last lens vertexBack focal distance*:36.9 mmDistance between first and16.9 mm
Filter connection:	or in stopped-down position. Aperture priority/Shutter priority/ Automatic programs screw-in type, thread M 49 x 0.75	last lens vertex: 16.9 mm Weight: approx. 90 g

* at ∞



Performance data: Tessar[®] T* f/2.8 - 45 mm Cat. No. 10 03 46

1. MTF Diagrams

The image height u - calculated from the image center - is entered in mm on the horizontal axis of the graph. The modulation transfer T (MTF = Modulation Transfer Factor) is entered on the vertical axis. Parameters of the graph are the spatial frequencies R in cycles (line pairs) per mm given at the top of this page. The lowest spatial frequency corresponds to the upper pair of curves, the highest spatial frequency to the lower pair. Above each graph, the f-number k is given for which the measurement was made. "White" light means that the measurement was made with a subject illumination having the approximate spectral distribution of daylight.

spectral distribution of daylight. Unless otherwise indicated, the performance data refer to large object distances, for which normal photographic lenses are primarily used.

2. Relative illuminance

In this diagram the horizontal axis gives the image height u in mm and the vertical axis the relative illuminance E, both for full aperture and a moderately stopped-down lens. The values for E are determined taking into account vignetting and natural light decrease.

3. Distortion

Here again the image height u is entered on the horizontal axis in mm. The vertical axis gives the distortion V in % of the relevant image height. A positive value for V means that the actual image point is further from the image center than with perfectly distortion-free imaging (pincushion distortion); a negative V indicates barrel distortion.

ZEISS

Subject to change.

Modulation transfer T as a function of image height u. Slit orientation: tangential — — — sagittal — White light. Spatial frequencies R = 10, 20 and 40 cycles/mm

-1.0

-2,0

0











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