Tele-Tessar® T* 4/250 FE







There are not many telephoto lenses in medium format worldwide that are faster than the **Tele-Tessar**[®] T* 4/250 FE lens. Due to the **Tele-Tessar**[®] lens design the weight of this lens could be kept considerably below 1 kg. Thus the **Tele-Tessar**[®] T* 4/250 FE lens is lightweight and portable and can be easily used hand-held. The large aperture supports fast and positive focusing and the optical quality allows the lens to beused wide open.

> **10 45 40** 5

245.6 mm

55 x 55 mm

width 13°, height 13°,

5

f/4

HASSELBLAD

Thus the **Tele-Tessar**[®] T* 4/250 FE lens is a very interesting lens for editorial work, theatrical and stage photography, portraits of musicians in concert, and scenic landscapes with emotion. <u>Preferred use:</u> editorial, fashion, weddings, theatrical and stage photography, portraits, scenic landscapes

Cat. No. of lens
Number of elements
Number of groups
Max. aperture
Focal length
Negative size
Angular field

diagonal 18° Min. aperture 32 Camera mount FE Filter connection bayonett, B 77 Focusing range infinity to 2.5 m Working distance (between mechanical front end of lens and subject) 2.3 m

Close limit field size 421 mm x 421 mm Max. scale 1:7.7 Entrance pupil 157.0 mm behind the first lens vertex Position Diameter 61.5 mm Exit pupil Position 32.9 mm in front of the last lens vertex Diameter 29.4 mm Position of principal planes 114.7 mm in front of the first lens vertex н H' 161.9 mm in front of the last lens vertex Back focal distance 83.7 mm Distance between first and last lens vertex 144.6 mm Weight 920 g



Performance data: **Tele-Tessar**[®] T* 4/250 FE Cat. No. 10 45 40

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 = M odulation 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. 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.

Subject to change. Printed in Germany 06.06.2000



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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

