Planar[®] T* 3,5/100 CFi





recognition from corner to corner are extremely high, such as architectural work, aerial surveying, documentation, industrial and scientific photography. For reproducing valuable paintings and similar artwork with sizes larger than one square meter, the **Planar**[®] T* 3,5/100 CFi lens should be the no. 1 lens choice. (For artwork sizes smaller than one square meter, the Carl Zeiss **Makro-Planar**[®] T* 4/120 CFi lens is the lens of choice.) Every Hasselblad photographer who is really serious about sharpness can't do without this lens! <u>Preferred use:</u> architecture, documentation, and reproduction with no distortion, large products with important small details, general industrial, aerials shot wide open, digital photography

The **Planar** T* 3,5/100 CFi lens is a very special lens. It is not just a standard Planar[®] lens with 25% more focal length. It is optimized to deliver virtually zero distortion and at the same time extremely well defined image details - sharpness - over the entire frame, and all this even at full aperture. A lens with this quality could only be developed with Carl Zeiss' extensive experience in microdocumentation and aerial mapping and surveying. So the Planar® T* 3,5/100 CFi lens is the first choice in optics for all photographers who combine a Hasselblad camera and a recent high resolution film for demanding aerial photography with its fast shutter speeds and hence wide open apertures. The Planar T* 3,5/100 CFi lens is also an indispensible tool for all applications which require an exact reproduction of the geometry of the subject. It is, therefore, recommended as a standard optical tool for photography where the demands for detail

10 22 17

Cat. No. of lens

Number of elements Number of groups Max. aperture Focal length Negative size Angular field

 Min. aperture
 22

 Camera mount
 CFi

 Shutter
 Prontor CFi 1s-1/500s

 Filter connection
 bayonett series 60

 Focusing range
 infinity to 0.9 m

 Working distance (between mechanical front end of lens and subject)
 0.7 m

5 4 f/3.5 101.3 mm 55 x55 mm width 31°, height 31°, diagonal 42° 22 CFi Prontor CFi 1s-1/500s, b, f bayonett series 60 infinity to 0.9 m nechanical front end of 0.7 m

Close limit field size	380 mm x 380 mm
Max. scale	1:6.9
Position	37.7 mm behind the first lens vertex
Diameter	28.9 mm
Exit pupil	
Position	40.2 mm in front of the last lens vertex
Diameter	32.8 mm
Position of principal planes	
Н	48.9 mm behind the first lens vertex
H'	27.6 mm in front of the last lens vertex
Back focal distance	73.7 mm
Distance between first	
and last lens vertex	58.7 mm
Weight	600 g



Performance data: Planar[®] T* 3,5/100 CFi Cat. No. 10 22 17

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 29.05.2000



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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



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