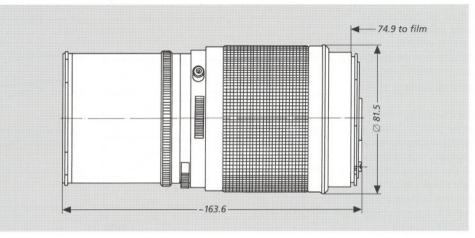
Sonnar[®] T* f/5.6 – 250 mm



HASSELBLAD



Even at full aperture the 250 mm **Sonnar**[®] T* f/5.6 lens features such excellent image quality that stopping

down is not required. Despite its long focal length and remarkable telephoto effect, this lens is compact and allows hand-held photography.

| | range, press, sports and stage photography. In outdoor portrai- | |
|----|---|--|
| | ture, the shallow depth-of-field range can be used to advan- | |
| | tage to separate the model from an unsteady background. | |
| k- | | |

The 250 mm Sonnar® T* f/5.6 lens is used for portraiture, long-

| Cat. No. of lens: | 10 11 15 | Close-limit field size: | 437 x 437 mm | |
|-------------------------|----------------------------------|------------------------------|--|--|
| Number of elements: | 4 | Entrance pupil: | | |
| Number of groups: | 3 | Position: | 125.5 mm behind the first lens vertex | |
| Max. aperture: | f/5.6 | Diameter: | 44.8 mm | |
| Focal length: | 248.4 mm | Exit pupil: | | |
| Negative size: | 56.5 x 56.5 mm | Position: | 21.3 mm in front of the last lens vertex | |
| Angular field 2w: | diagonal 18°, side 13° | Diameter: | 25.6 mm | |
| | | Position of principal planes | on of principal planes: | |
| Aperture scale: | 5.6 - 8 - 11 - 16 - 22 - 32 - 45 | H: | 62.8 mm behind the first lens vertex | |
| Mount: | Prontor CF | H': | 23.0 mm in front of the last lens vertex | |
| Filter connection: | bayonet for Hasselblad series 60 | Back focal distance: | 120.0 mm | |
| Weight: approx. 1,000 g | | Distance between first and | t i i i i i i i i i i i i i i i i i i i | |
| Focusing range: | ∞ to 2.5 m | last lens vertex: | 105.5 mm | |
| Reproduction ratio: | 0 to 1:7.8 | | | |





Performance data: **Sonnar**^{\circ} T* f/5.6 f = 250 mm No. 101115

1. MTF Diagrams

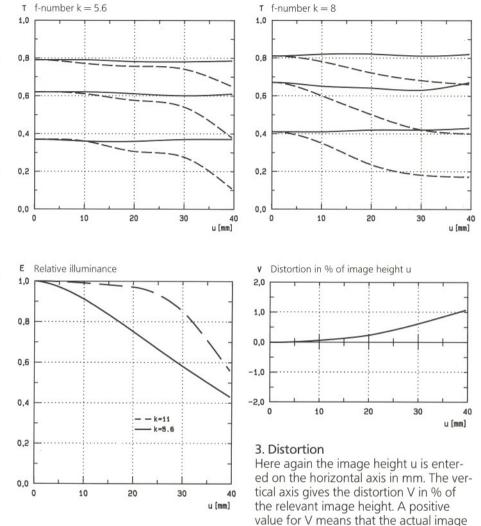
The image height u - calculated from the image center – is entered in mm on the horizontal axis of the graph. The modulation transfer T (MTF = Modulation Transfer Factor) is entered on the vertical axis. Parameters of the graph are the spatial frequencies R in cycles (line pairs) per mm given at the 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.

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. 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



point is further from the image center than with perfectly distortion-free imaging (pincushion distortion); a negative V

indicates barrel distortion.



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