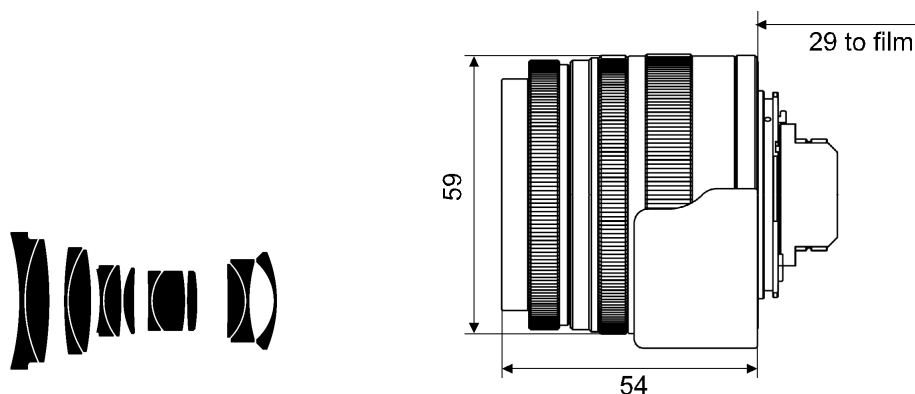


Vario-Sonnar® T* 3.5-5.6/35-70



CONTAX® G mount

The Carl Zeiss **Vario-Sonnar® T*** 3.5-5.6/35-70 lens is an easy-to-carry zoom lens for the Contax G 2 rangefinder system camera.

It is the first "real" zoom lens in the world with continuous focal length setting for a rangefinder system camera with interchangeable lenses. The built-in zoom viewfinder of the Contax G 2 camera automatically adjusts to the **Vario-Sonnar® T*** 3.5-5.6/35-70 lens zoom setting.

With the range of focal length from 35 mm to 70 mm the **Vario-Sonnar® T*** 3.5-5.6/35-70 lens covers a

broad range of uses from wide angle 35 mm and standard 50 mm focal lengths for natural subject renditions to medium-telephoto 70 mm focal length allowing easy shooting with natural-looking perspective and relative distance between objects.

Thus the **Vario-Sonnar® T*** 3.5-5.6/35-70 lens is the "natural travelling companion" in the Contax G-system world.

Preferred use: action, travel, photojournalism

| | | | |
|---|--|---|--|
| Cat. No. of lens | 10 47 65 | Entrance pupil* | |
| Number of elements | 13 | Position | W = 14.9 mm behind the first lens vertex T = 26.4 mm behind the first lens vertex |
| Number of groups | 8 | Diameter | W = 10.1 mm T = 11.8 mm |
| Max. aperture | f/3.5-5.6 | Exit pupil* | |
| Focal length | W = 36.5 mm, T = 68.2 mm | Position | W = 11.9 mm in front of the last lens vertex T = 10.6 mm in front of the last lens vertex |
| Negative size | 24 x 36 mm | Diameter | W = 7.0 mm T = 8.0 mm |
| Angular field* | W = width 53°, height 36°, diagonal 2w 62° T = width 29°, height 20°, diagonal 2w 35° | Position of principal planes* | |
| Min. aperture | 22 | H | W = 1.5 mm behind the first lens vertex T = 5.5 mm behind the first lens vertex |
| Camera mount | Contax G | H' | W = 23.2 mm in front of the last lens vertex T = 32.3 mm in front of the last lens vertex |
| Filter connection | M 46 x 0.75 | Back focal distance | W = 13.3 mm T = 35.9 mm |
| Focusing range | infinity to 1 m | Distance between first and last lens vertex* | W = 55.0 mm T = 60.1 mm |
| Working distance (between mechanical front end of lens and subject) | 0.9 m | Weight | 290 g |
| Close limit field size | W = 661 x 1012 mm T = 339 x 506 mm | | |
| Max. scale | W = 1:27 T = 1:14 | | |

*at infinity W = Wide, T = Tele



Performance data:

Vario-Sonnar® T* 3.5-5.6/35-70

Cat. No. 10 47 65

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.

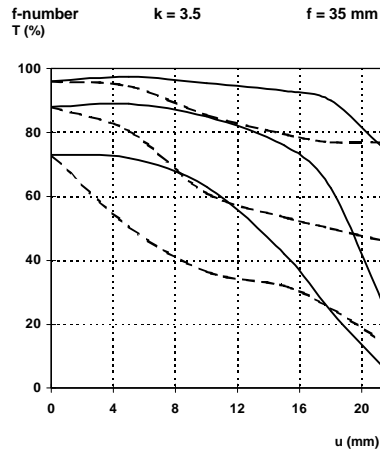
2. Relative illuminance

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.

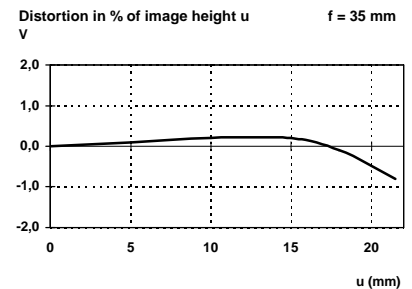
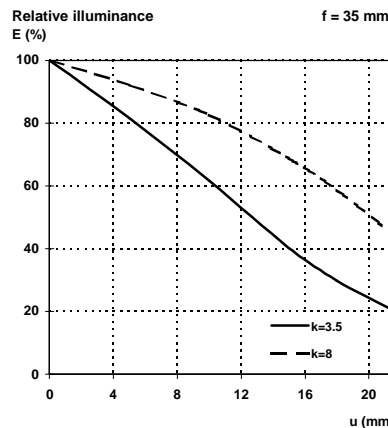
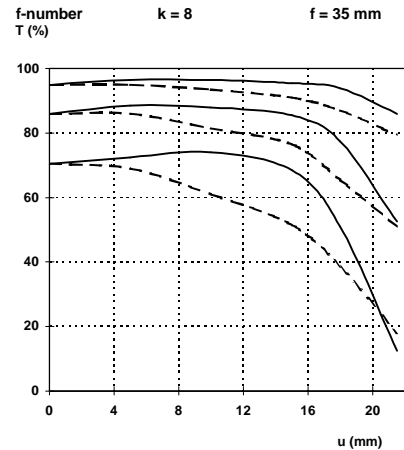
3. Distortion

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.

Modulation transfer T as a function of image height u .
White light. Spatial frequencies $R = 10, 20$ and 40 cycles/mm



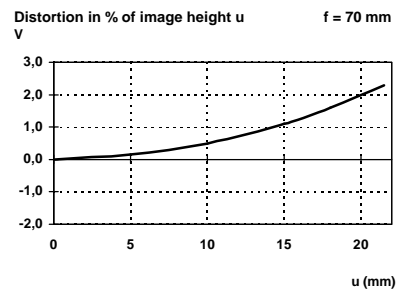
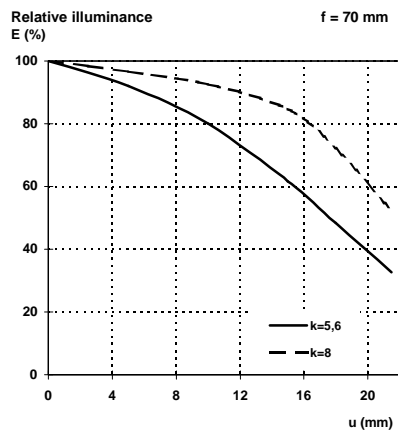
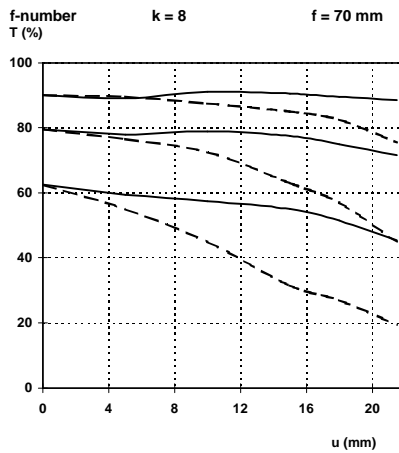
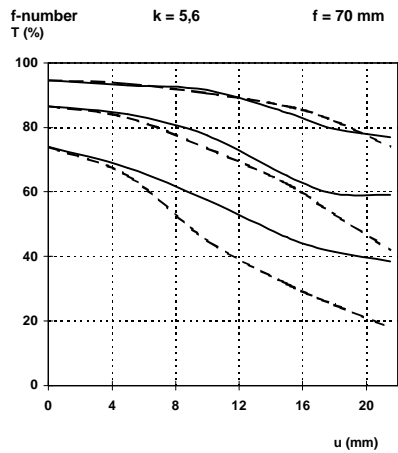
Slit orientation: — sag
- - tan



Performance data:
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Modulation transfer T as a function of image height u.
 White light. Spatial frequencies R = 10, 20 and 40 cycles/mm

Slit orientation: — sag
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Subject to change.
Printed in Germany 25.05.2000



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