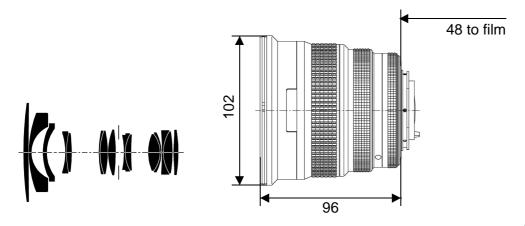
Vario-Sonnar® T* 2.8/17-35



CONTAX® N

Extreme wide-angle, fast f/2.8 zoom lenses are among the preferred optics of today's photojournalists and travel photographers.

For the Contax N SLR system, Carl Zeiss has designed an all new Vario-Sonnar® T* 2,8/17-35 lens. With this zoom lens Carl Zeiss has incorporated 3 aspheric surfaces along with lens elements from special types of optical glass to achieve an image quality comparable to very good fixed focal length lenses, especially at the super wide end. This is particularly beneficial since extreme wide-angle photos should be blown up large, like a double spread, to really deliver that special impression of super wide vistas. For this purpose of high enlargements convincing sharpness is mandatory. The Vario-Sonnar® T* 2,8/17-35 lens utilizes the full potential of modern color films and delivers images of impressive brilliance and sharpness.

To enable the use of special effect filters without any vignetting, the Vario-Sonnar® T* 2,8/17-35 lens is equipped with a very wide filter mount. This lens with its large amount of optical glass, and attendant mass provides high stabilization during the exposure. Thus, significantly longer exposure times can be obtained handheld with good results, a special benefit for photojournalism. Equally beneficial is the fast speed of f/2.8, ensuring a bright viewfinder image thus easing the image composition.

Preferred use: spectacular super-wide vistas, advertising, images that depict sheer expanse, dynamic landscapes, travel and tourism, photojournalism, photos to be taken in crammed

Cat. No. of lens 10 47 68 Number of elements 15 Number of groups 10

Max. aperture f/2.8 W = 17.4 mm, T = 34.0 mmFocal length

Negative size 24 x 36 mm

W = width 92°, height 69°, diagonal 102° T = width 11°, height 7.1°, diagonal 13° Angular field 2w

Min. aperture 22 Camera mount Contax N Filter connection M 95 x 0.75 infinity to 0.5 m Focusing range

Working distance (between mechanical front end of

lens and subject) W = 0.38 m, T = 0.38 mClose limit field size W = 545 mm x 831 mm

T = 268 mm x 400 mm

Max scale $W = 1 \cdot 22$ T = 1:11.2 Entrance pupil*

Position W = 24.4 mm behind the first lens vertex

T = 25.2 mm behind the first lens vertex

Diameter W = 6.1 mmT = 11.8 mm

Exit pupil'

W = 59.6 mm in front of the last lens vertex Position

T = 27.6 mm in front of the last lens vertex

W = 35.0 mmDiameter T = 29.7 mm

Position of principal planes*

W = 38.8 mm behind the first lens vertex T = 45.4 mm behind the first lens vertex

H W = 21.1 mm behind the last lens vertex T = 22.3 mm behind the last lens vertex

Back focal distance W = 38.5 mm

T = 56.3 mm

Distance between first

W = 103.7 mmand last lens vertex* T = 87.8 mm

900 g Weight



*at infinity

Performance data:

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Cat. No. 10 47 68

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.

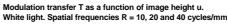
The lowest spatial frequency corresponds to the upper pair of curves, the highest spatial frequency to the lower pair. Above each graph, the f-number k is given for which the measurement was made. "White" light means that the measurement was made with a subject illumination having the approximate spectral distribution of daylight. Unless otherwise indicated, the performance data refer to large object distances, for which normal photographic lenses are primarily used.

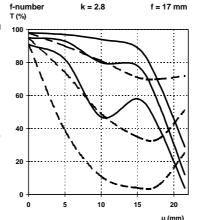
2. Relative illuminance

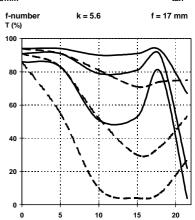
In this diagram the horizontal axis gives the image height u in mm and the vertical axis the relative illuminance E, both for full aperture and a moderately stopped-down lens. The values for E are determined taking into account vignetting and natural light decrease.

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.

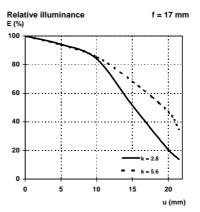


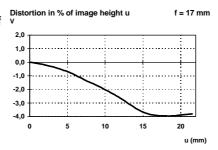




u (mm)

Slit orientation:

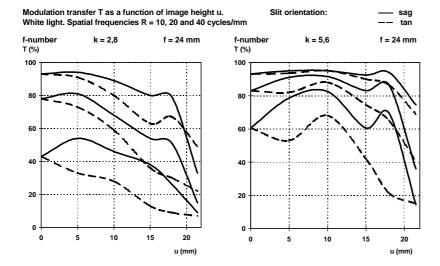


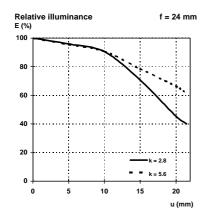


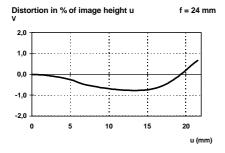
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Cat. No. 10 47 68



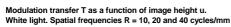




Performance data:

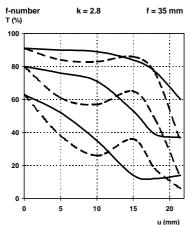
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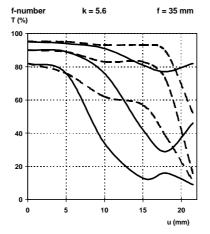
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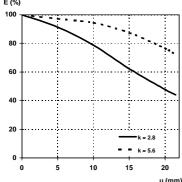
— sag





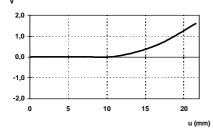
Relative illuminance E (%)

f = 35 mm



Distortion in % of image height u

f = 35 mm



Subject to change.

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