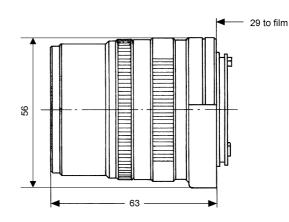
# **Sonnar<sup>®</sup> T\* 2.8/90**



**CONTAX<sup>®</sup>** G mount

This lens features not only outstanding sharpness and brilliance, but also excellent field illumination even at full aperture. The **Sonnar**<sup>®</sup> T\* 2.8/90 lens with its field angle of 27° has been designed for the Contax G compact camera. The lens is particularly suitable for portrait photography, allowing successful head-and-shoulders and full-length portraits with a natural perspective.

10 11 31

5 4 f/2.8 90.0 mm 24 x 36 mm width 23°, height 15°, In addition to portraiture, this lens can also be recommended for taking photographs at sporting events and the theater. The **Sonnar**<sup>®</sup> T\* 2.8/90 lens has been designed for use with the autofocus connection of the Contax G compact cameras.

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

diagonal 2w 27° Min. aperture 22 Camera mount Contax G Filter connection M 46 x 0.75 Focusing range infinity to 1.0 m Working distance (between mechanical front end of lens and subject) 0.91 m

Close limit field size Max. scale Entrance pupil*	216 mm x 324 mm 1 : 9.0
Position	35.9 mm behind the first lens vertex
Diameter Exit pupil*	31.7 mm
Position Diameter	22.0 mm in front of the last lens vertex 23.5 mm
Position of principal planes	*
Н	2.5 mm behind the first lens vertex
H'	46.3 mm in front of the last lens vertex
Back focal distance	43.7 mm
Distance between first	
and last lens vertex	45.9 mm
Weight	240 g

\* at infinity



# Performance data **Sonnar<sup>®</sup>** T\* 2.8/90 Cat. No. 10 11 31

## 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

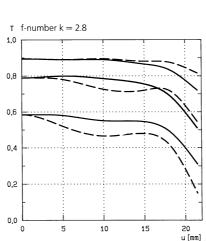
In this diagram the horizontal axis gives the image height u in mm and the vertical axis the relative illuminance E, both for full aperture and a moderately stopped-down lens. The values for E are determined taking into account vignetting and natural light decrease.

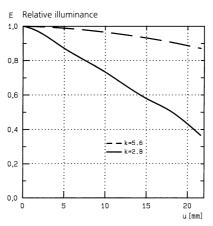
### 3. Distortion

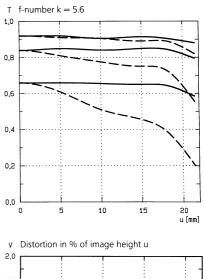
Here again the image height u is entered on the horizontal axis in mm. The vertical axis gives the distortion V in % of the relevant image height. A positive value for V means that the actual image point is further from the image center than with perfectly distortion-free imaging (pincushion distortion); a negative V indicates barrel distortion.

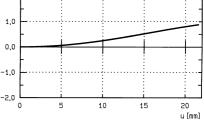
Subject to change. Printed in Germany 31.07.2000











Carl Zeiss Photoobjektive D-73446 Oberkochen Telephone (07364) 20-6175 Fax (07364) 20-4045 eMail: photo@zeiss.de http://www.zeiss.de