

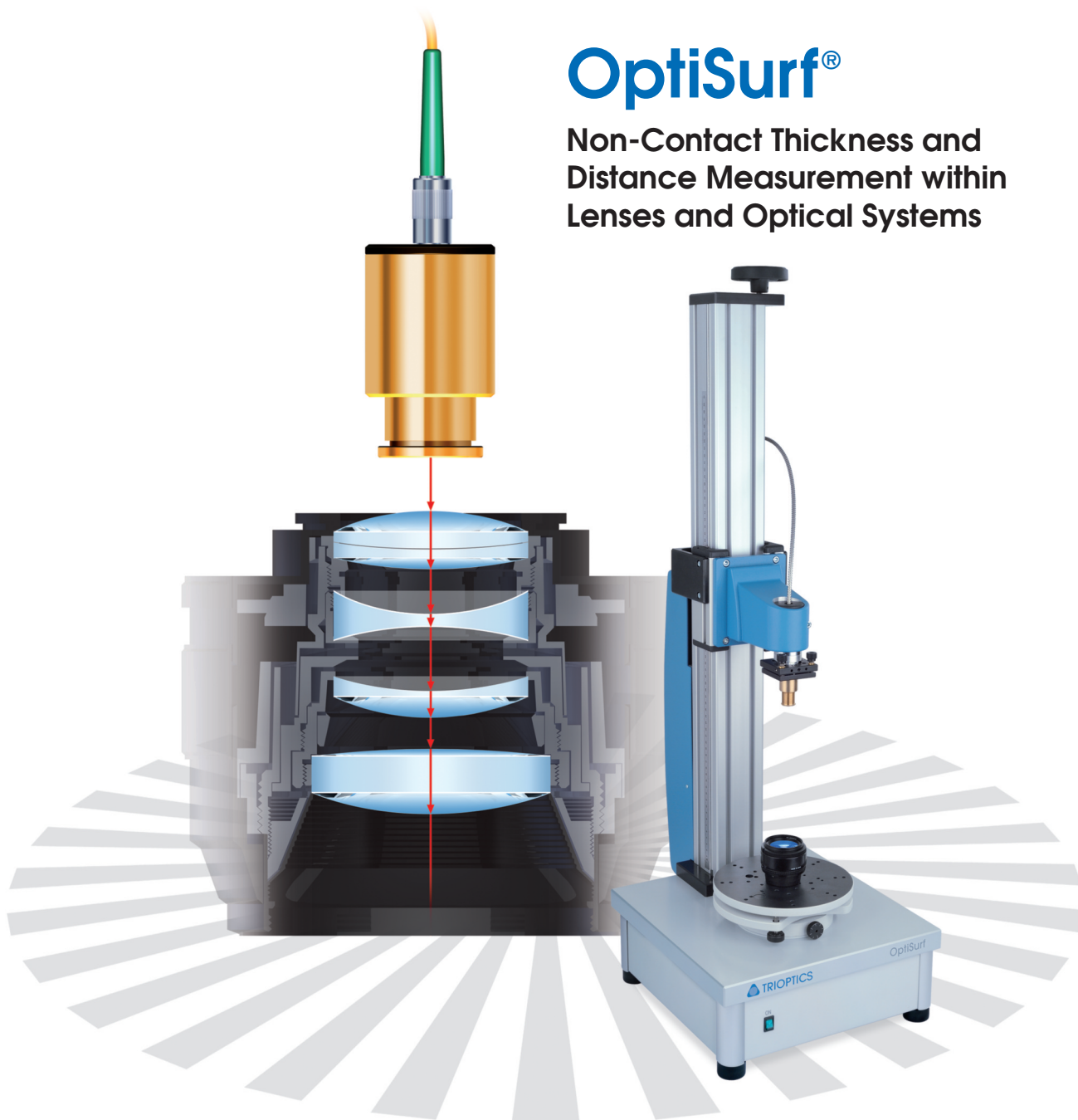


TRIOPTICS

TRIOPTICS GMBH · OPTICAL TEST EQUIPMENT

OptiSurf®

**Non-Contact Thickness and
Distance Measurement within
Lenses and Optical Systems**



OptiSurf® is the ideal tool for non-contact center thickness and air gap measurement within single lenses, planar optics and optical systems. The instrument is based on low coherent interferometry and measures all distances in an optical system with an accuracy of 1 μm in one scan.

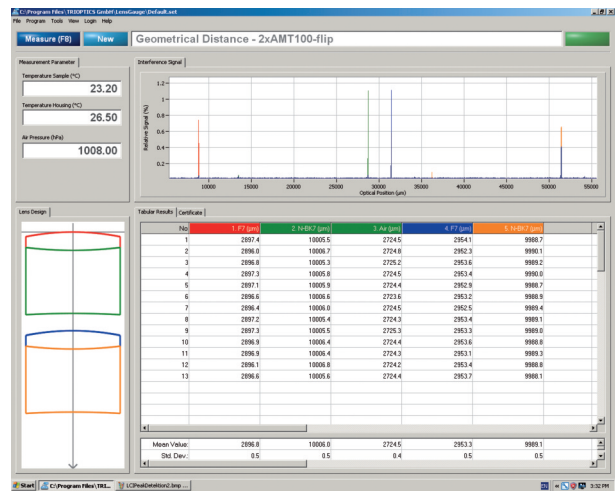
OptiSurf® is outstanding in compactness and ease of use as it incorporates all measurement and alignment components in a single system.

Especially the alignment of the sample with respect to the measurement axis has been greatly simplified compared to conventional systems: An innovative alignment tool together with the adjustable sample holder and the software allows even inexperienced operators to accurately align and measure lenses and optical systems. This time saving innovation qualifies OptiSurf® for use in production.

The OptiSurf® Professional Software

Perfect for the Analysis of Optical Systems

- Supports intuitive handling, alignment and measurement process
- Lens design input via OptiCentric® interface, directly from Zemax or via a convenient lens design editor
- Automated surface identification for fast and precise measurements
- Comparison with design data and identification of deviations for use in Quality control
- Statistical analysis of measurement results
- Two level user interface: for complex analysis routines in R&D phase and easy to handle operation in production



OptiSurf® Software showing the measurement results

Specifications OptiSurf®

Measurement accuracy	1 µm over measurement range
Scanning range	up to 800 mm optical distance, larger on request
Measurement cycle time	15 sec. per 100 mm scanning range
Computer Interface	USB
Scope of delivery	<ul style="list-style-type: none"> • Measurement head with adjustable focal length • Integrated visible alignment laser beam • Manual linear stage with holder for the measurement head • Electronic controller unit mounted in the instrument's base • Sample holder with tilt & translation table • OptiSurf® Professional Software