µShape^{TM} „Generic Package"
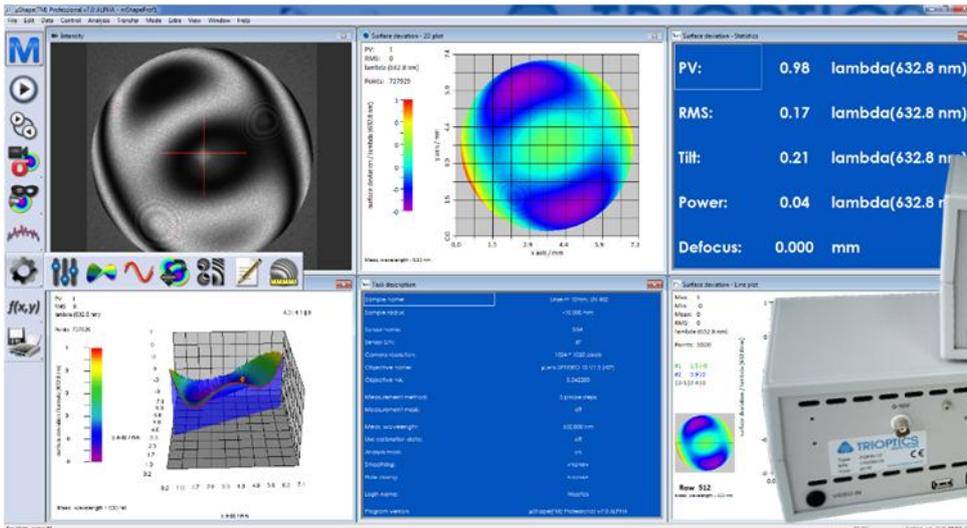

You have:
- a phase-measuring interferometer, e.g. own-built or commercial Fizeau or Michelson type,
- an out-of-date or even no measurement and analysis software for it, and
- no capacity or no time to write you own software?

We have:
- a state-of-the art interferometry software package,
- many years of experience in supporting different types of interferometers, and
- a competent team of software engineers permanently working to improve and extend the software and also fulfilling your special requests.

Why not asking TRIOPTICS Berlin to modernize your interferometer?

We'd like to offer you a simple and cost-effective solution which makes our comprehensive and easy-to-use µShape^{TM} software available for nearly any kind of phase-measuring interferometer. After only a few minutes of soft- and hardware installation you can start to explore the new possibilities of your interferometer. And if you need a new camera or other interferometer hardware – we'd like to help you finding a suitable solution.

µShape^{TM} GenPack is available in different versions depending on your interferometer hardware:

| Version	Purpose	Package contains
GenPack "Standard"	Support of phase-shifting interferometers with direct hardware access	µShape^{TM} *Professional* software Frame grabber card or USB drivers Piezo-element pre-amplifier
GenPack "FastFringe"	Support of interferometers without phase shifters with direct hardware access	µShape^{TM} *FastFringe* software Frame grabber card or USB drivers
GenPack "Analyzer"	Analysis of interferogram bitmaps taken from a phase-measuring interferometer	µShape^{TM} *Analyzer* software
GenPack „Shear"	Support of Lateral Shearing Interferometers with direct hardware access	µShape^{TM} *Shear* software Frame grabber card or USB drivers Piezo-element pre-amplifier Controller for the shear rotator

Don't hesitate to contact your local µShape™ supplier for more details or download the µShape™ Demo software from www.trioptics-berlin.com/downloads.

Ä See back side for selected software features.

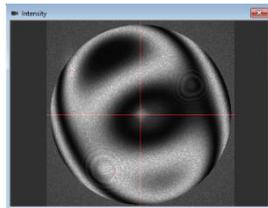# Selected µShape™ Features
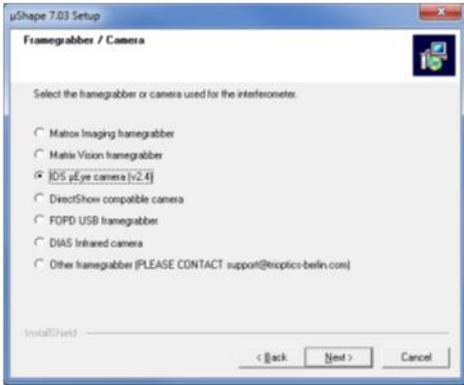
**Installation** supports various camera types.
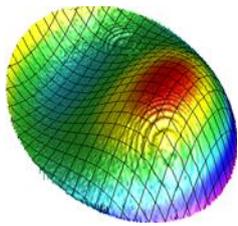
Advanced 3D activates a modern 3D graphical view of any data map with light effects and additional analysis and display options.

Reference marker within the live camera image makes the alignment easier and enables to detect distances and orientation of your sample under test.
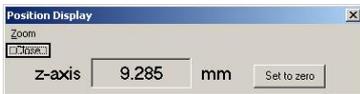

Various **Position Devices** support radius measurement of lenses.

Mask editors supports measurement and analyses with different options to select the area of interest or to cut-off undesired areas. Depending on the mask type various masking objects are offered.
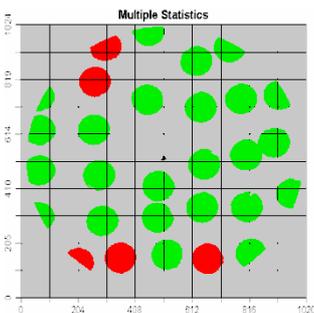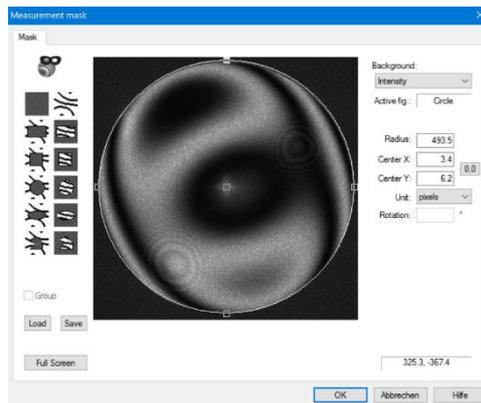
Multi-Statistics analyses up to 10 user defined areas simultaneously. Beside the statistic parameter also local tilt and curvature analysis is available.

Measurement Protocol shows your results at a glance and can be widely configured including your own company logo.
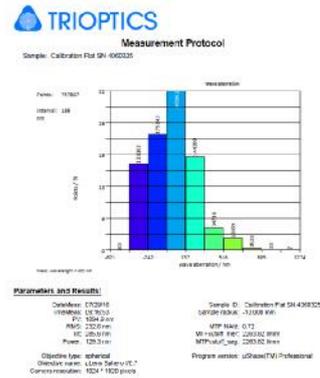
Histogram plot summarizes the data points of a map according its frequency of occurrence.

$$z(h) = \frac{\frac{h^2}{R_0}}{1 + \sqrt{1 - (1+k)\left(\frac{h}{R_0}\right)^2}} + \sum_{n=1}^{N} A_n h^n$$

Aspheres add-on module features analyzing rotational symmetric aspheres in an aspherical or spherical setup. The asphere description can be entered and stored. Residual adjustment errors and systematic setup errors are removed (aspheric fit).

Toolbars for easy access to calculate Zernike or Legendre polynomials, Seidel aberrations, DIN 3140 or ISO 10110 parameters, slope, statistics, MTF and many more analysis features.

Data map operations such as smoothing, filtering or subtracting reference data adapt the shown results to your measurement setup.

FastFringe analysis offers three different methods of static fringe analysis (phase calculation from single interferograms) with different options. It enables fast measurement in instable environment conditions and does not require phase-shifting.

This page shows only a small selection of the µShape™ features. Overviews of all available features and add-on modules can be found at www.trioptics-berlin.com/downloads.

Revision 7 / µShape v7.0x