

Overview μ Shape™ Add-on Modules

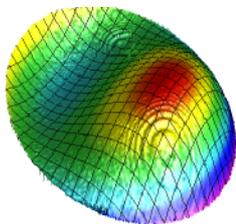
General

The μ Shape™ family consists of several program versions. The most used version is the μ Shape™ Professional. This version as well as some custom versions also includes add-on modules which offer some special analyses or functionalities. These add-on modules are managed by the dongle, which controls the activation of the individual modules. The dongle settings can be easily changed by an upgrade file which can be sent by email and re-programs the dongle activating additional software modules.

The μ Shape™ itself offers in addition the possibility to disable temporary individual modules currently activated by the dongle.

Add-on modules

Following modules are currently available. Each module is briefly described. If you need more information please contact us (software@trioptics-berlin.com).



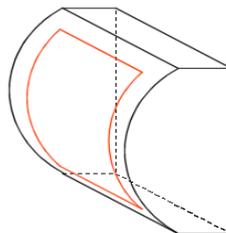
Advanced 3D: 3D graphics with light effects and additional analysis and display options compared to the standard 3D graphics

Standard feature in version 5.5 and higher

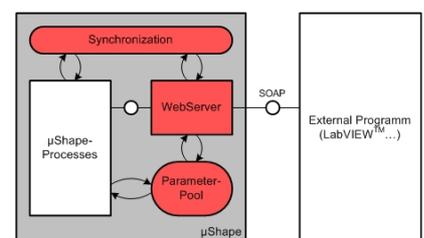
$$z(h) = \frac{h^2}{R_0} + \sum_{n=1}^N A_n h^n$$

$$1 + \sqrt{1 - (1+k) \left(\frac{h}{R_0}\right)^2}$$

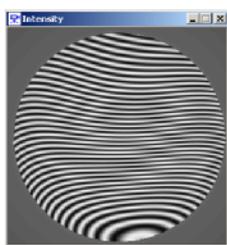
Cylinder features analyzing cylindrical samples in a cylindrical setup. Residual adjustment errors are removed (cylinder fit).



Aspheres features analyzing rotational symmetric aspheres in an aspherical as well as in a spherical setup. The asphere description can be entered and stored. Residual adjustment errors as well as systematic setup errors are removed (aspheric fit).



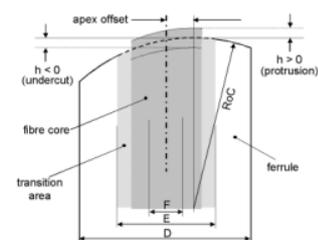
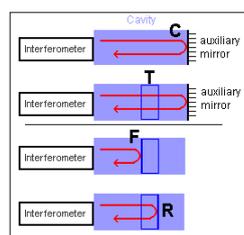
External Interface allows you to control the μ Shape™ by a different program via WebServer.



FastFringe offers three different methods of static fringe analysis (phase calculation from single interferograms) with different options. It enables fast measurement in instable environment conditions.

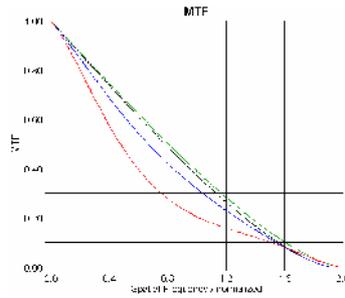
Standard feature in μ Shape™ FastFringe & μ Shape™ Analyzer

Homogeneity features calculating the homogeneity of a sample from two or four measurements transferred before to a separate analysis process.

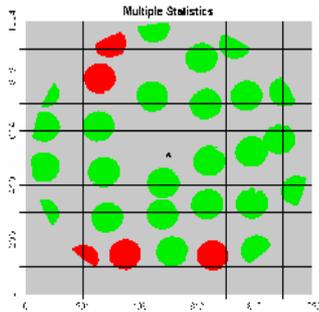
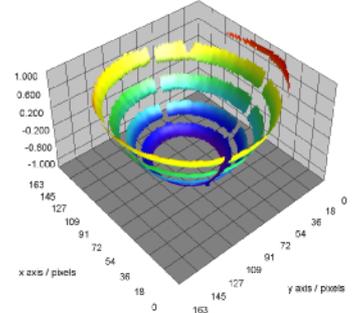


Fiber Connector features the analysis of fiber connector of type PC (physical contact). The main parameter will be calculated.

MTF/PSF calculates the PSF, MTF and encircled energy as well as related parameters from the measured wave aberration of focal and afocal systems.

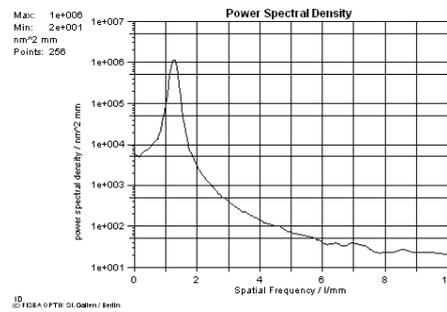
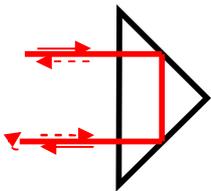


Multi-Apertures allows you to analyze non-connected apertures detected in one measurement. The unknown phase gaps are set to zero (all apertures belong to the same surface). It analyzes e.g. polishing heads and wedge plates



Multi-Statistics analyses up to 10 user defined areas with the same set of parameters simultaneously. Beside the statistic parameter also local tilt and curvature analysis is available. Together with Multi-Apertures all detected apertures can be analyzed automatically.

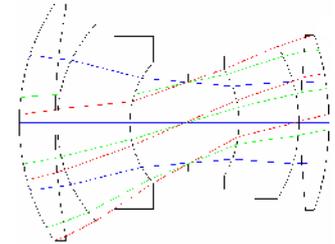
Prisms determine the angle of weak wedges and angle deviations of 90° and corner cube prisms.



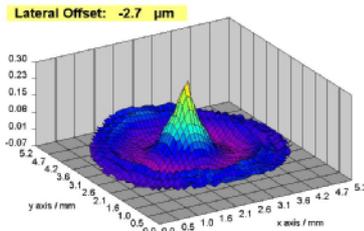
PSD/Roughness allows you to identify regular structures covered in your aberration and describe your surface by common roughness parameters.

Sample Normal Data: allows you to define an additional data map, e.g. result of an optic design, to be considered during the analysis.

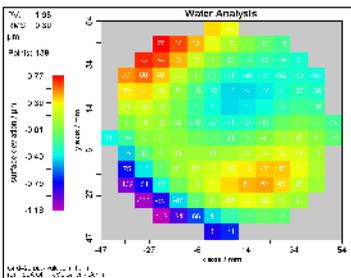
Standard feature in μ Shape™ Analyzer.



Tool Offset: calculates the tool offset error of a single point diamond turning machine.

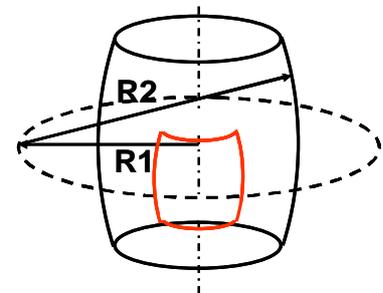


Torus features analyzing torical samples in a torical or spherical setup. Residual adjustment errors are removed (torus fit).



Wafer analysis features analyzing of wafer topographies by calculating the sfqr value resp. mean value of the cells of a selectable grid, values can be displayed in 2D plot and exported in text files

Extension according DIN 50441-5 possible



Don't hesitate to contact your local software partner for more details. You can download the μ Shape™ Demo software from www.trioptics-berlin.com/download.

Revision 6 / μ Shape v6.17