



Leica Stereo Explorer

Area Module
3-D Topographical Measurement System

Leica
MICROSYSTEMS

Description:

The Leica Stereo Explorer Area Module evaluates surfaces according to parameters such as roughness and undulation on a 3-D image. The region of interest (ROI) is selected by the user (shaped as a rectangle or polygon) and then this measurement is quickly and precisely calculated by this software module.

The fractal dimension is a value used in material failure analysis to describe surfaces. This value is calculated by the Stereo Explorer Area Module; in addition to other functions that allow users to fully evaluate surface areas and surface features. Even ratios of actual to projected area can be attained through the use of this software package.

Surfaces can be displayed as digital elevation models (DEMs), "transparent" renderings of the real stereo image, either with the original stereomicroscope image or with a height-coded scale. Elevation lines similar to those typically used on a map can also be superimposed on the image. DEMs can be rotated freely around three axes and all views can be saved in a variety of file formats (JPG, TIFF, PNG, BMP, etc.).

Product Highlights:

- User-defined measurement areas (polygon or rectangle)
- Measurement of actual and projected area
- Extraction of parameters such as roughness and undulation
- Export of all measurement data as images or tables
- Selection and modification of the reference plane
- Choice of height-coded scale or 3-D display with glasses (included)
- Optional superimposed elevation lines

Order number

33 007 036

Leica Stereo Explorer area module

Leica Microsystems (Switzerland) Ltd.
Stereo & Macroscopy Systems
CH-9435 Heerbrugg

Telephone +41 71 726 33 33
Fax +41 71 726 33 99
www.leica-microsystems.com
www.stereomicroscopy.com

Leica
MICROSYSTEMS