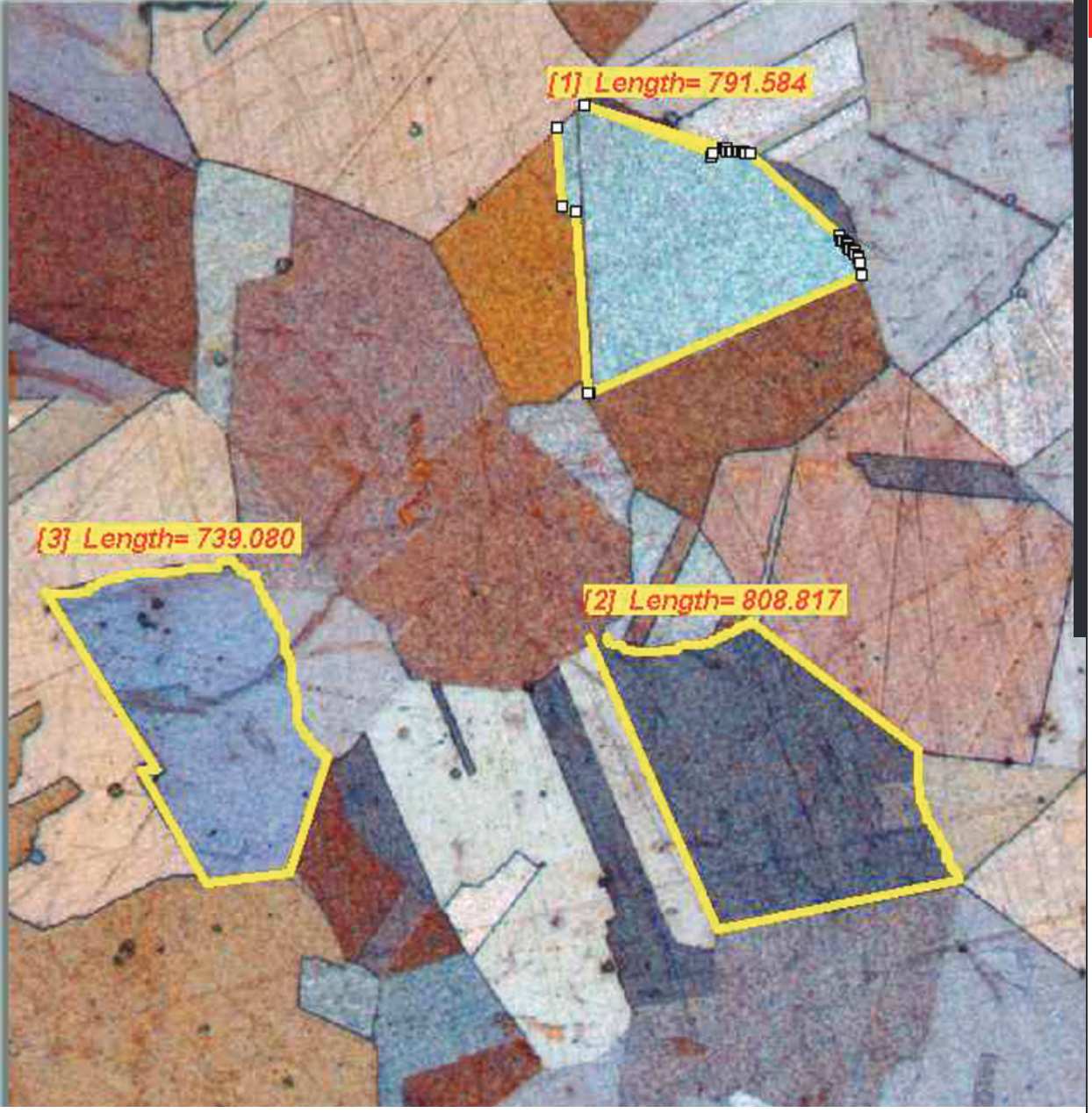


Leica Application Suite

Interactive Measurement

Living up to Life

Leica
MICROSYSTEMS

Measuring Up with LAS!

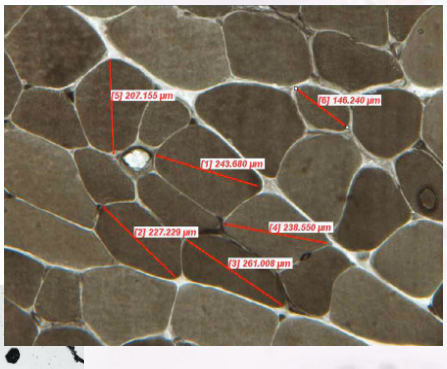
Interactive Measurements

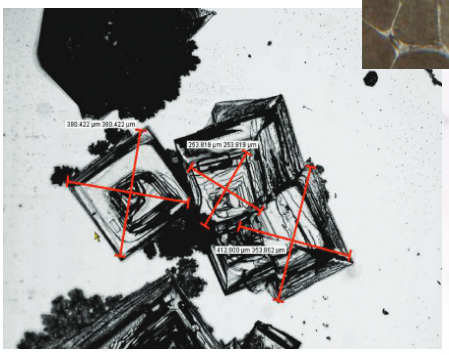
The Leica Application Suite Interactive Measurement Module is designed to simplify the manual tasks involved when deriving calibrated measurement parameters such as length, area, perimeter, diameter and angles. By tracing around an object of interest, it is easy to identify areas of significance and perform sophisticated measurements upon them. The colour and line thickness of measurement tracings can even be adjusted to contrast fully with the underlying image or merged into it to create a permanent record. Furthermore, each measurement can be labelled with a sequence number, a parameter name, a value and a written comment.

The LAS Interactive Measurement module allows objects to be counted individually and assigned to a labelled class which can be allocated a specific colour for identification purposes. Additionally, those that consist of multiple fragments can be grouped so that the total area of the group is derived. All configurations defined during measurements can also be saved and recalled for convenient repetition.

Other benefits include:

- Fully integrated with microscope and digital camera control.
- Measurements can be applied to individual images or accumulated over multiple images so that statistical trends can be determined.
- Live images can be annotated with calibration markers to provide a quick and easy guide to image size.
- Object tracings can be stored and recalled in overlay format so that they can be reviewed effortlessly.
- An intuitive gallery displays acquired images, which can be immediately selected for measurements.





Vital Statistics!

Measurement Options

The LAS Interactive Measurement module provides a workflow approach to defining the parameters during setup, through to the actual measurements and the subsequent analyses. Measurement types include depicting the vector distance between points, determining angle, width and height and calculating areas and mean intensity.

The meaurement process can be operated in two modes, either in basic or accumalation. Basic mode is mostly applied to measurements on individual images whilst accumalation mode can be used when calculations are applied to multiple images to obtain statistical information.

Detailed Results

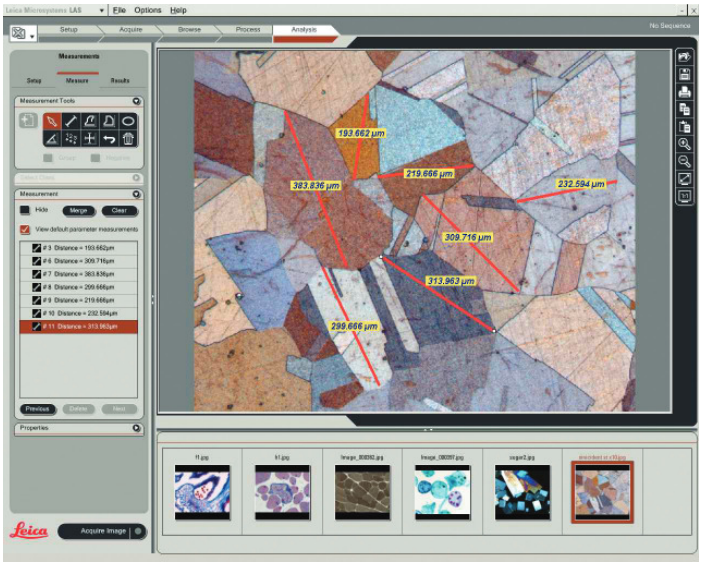
In order to provide the most in depth findings the LAS Interactive Measurements module provides various options for reviewing and reporting results. Measurement results can be displayed in tabular form and easily saved, exported and printed in Microsoft Word and Excel. Furthermore, statistics can be calculated in terms of total, mean, mode, median, standard deviation, maximum and minimum values and many more.

LAS is based on Windows PCs and provides a cost-effective and uniform environment, compatible across the Leica range of microscopes and Digital FireWire cameras*.

LAS Interactive Measurements

The LAS Interactive Measurement module is a highly versatile solution that can be used with many specimen types for users interested in materials science, quality control, forensics, bioscience, pharmacology and many more areas. The LAS Interactive Measurement module can be used for applications such as:

- **Layer Thickness Measurements** – cross sectional samples are measured to discover coating thickness and skin thickness.
- **Cell Area Measurements** – the circumference of a cell is traced. Where several cells have been traced, the area average can be determined. All tracings can be saved and recalled for any future editing requirements.
- **Count Tool** – The number of positive and negetive cells can be counted in an immunological stain and appropriate classes assigned. Counts can be accumalted for each class and labelled appropriately.



Order number

12730072	Leica Application Suite – Interactive Measurement Module

Winner 2005

Innovationspreis
der deutschen Wirtschaft
The World's First Innovation Award

www.leica-microsystems.com/LAS

Leica
MICROSYSTEMS