



VideoTesT-Structure 4.0

Image Analysis for Materials Science

VideoTesT-Structure 4.0 software provides enhancement and measurement of images acquired with a CCD camera installed on microscope. The analysis data is processed statistically. The images and data can be stored in VideoTesT-Album Image Database. VideoTesT-Structure can be used as a general-purpose image analysis software. It includes also several pre-installed methodics (macros) for specific material applications.



VideoTesT-Structure 4.0 main functions:

- Image acquisition with CCD camera or scanner, opening images from files, pasting from the clipboard
- Image enhancement and annotation
- Manual measurements of linear and angular parameters
- Automatic and manual objects thresholding and segmentation
- Automatic measurement, recognition, and classification of objects
- Statistical treatment of the analysis data
- Stereological analysis
- Data export to MS Excel for additional statistical treatment
- Saving of images to .bmp, .pcx, .tiff, .gif, .jpeg files
- Printing of images and data
- Four pre-installed methodics (macros): Measure, Count and Size, Phase Analysis, Grain Sizing
- Ability to create, copy and modify macros
- VideoTesT-Album 3.0 image database included

VideoTesT-Structure 4.0 includes 4 pre-installed methodics (macros):

Measure

Objects thresholding and measurement.

Counting and Sizing

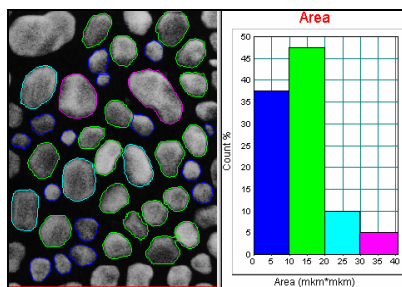
Objects thresholding, measurement, and automatic classification.

Phase Analysis

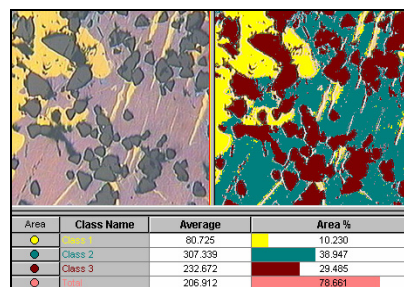
Thresholding of the image phases that differ in color or brightness. The marked out phases are measured, and the area percentage of different phases is calculated.

Grain Size

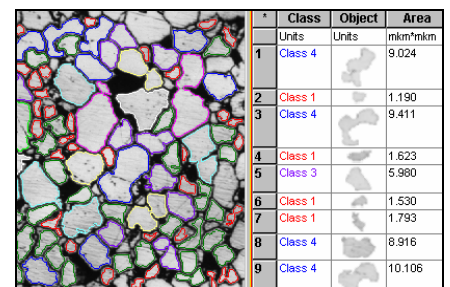
Steel grain size analysis according to ASTM E 1382 - 97 (average grain size) and E 930 - 92 (largest grain size), ISO 643, and GOST 5639 - 82 (Russian standard)



Counting and Sizing



Phase Analysis



Grain Size