# Visualizer-evo

§ Outlines

Visualizer-evo is an application for viewing volume (3D data) reconstructed with Composer (TEMography Suite) or Stacker (Stack 'N' Viz). In addition to volume rendering, multislice and isosurface basic 3D rendering/viewing techniques, Visualizer-kai possesses advanced functions in the form of 3D spatial length and angle measurement, video creation, volume segmentation, inter-volume computation, and 3D PDF output. Furthermore, Visualizer-kai's simple, refined interface makes all operations intuitively easy, setting it apart from typical 3D visualization software.
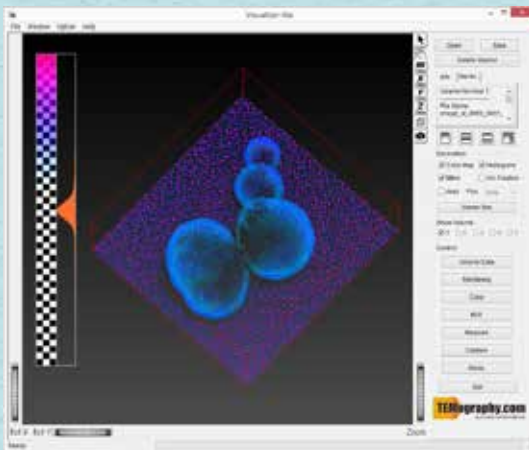

Adjustment of the color map and the opacity map
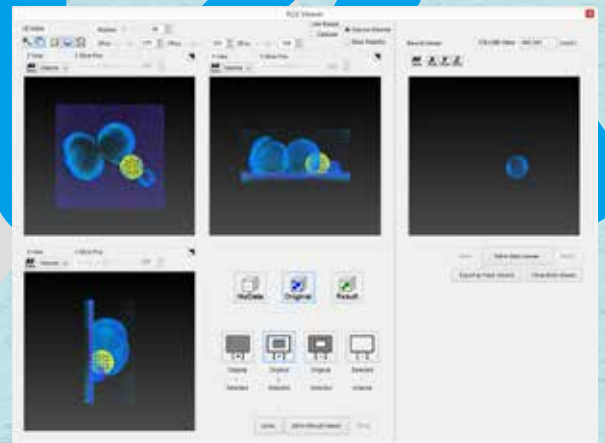

Segmentation

§ Features

○ Perform volume tasks using a mouse (rotation, movement, zooming)
○ Color & transparency map adjustment functions enable flexible rendering
○ Projection method (SUM, MIP, ALPHA) can be selected for volume rendering
○ Optimize volume with filters using 3D kernels
○ Render slices at arbitrary angles and positions in addition to X, Y and Z planes
○ Perform 3D length & angle measurements and output results to files
○ Movie creation & editing function can record all operation results
○ Generate polygon data and output in CAD data (.dxf) & 3D PDF formats
○ Volume Segmentation function enables export of complex shapes
○ Simultaneous volume rendering of up to 5 sets
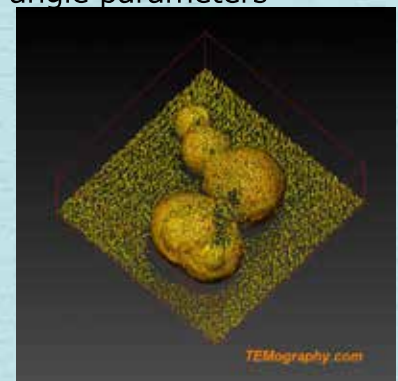○ Enables independent setting of individual volume size, scale, offset
　　　　　　　　　　　　　　　　　　　　　　& rotation angle parameters
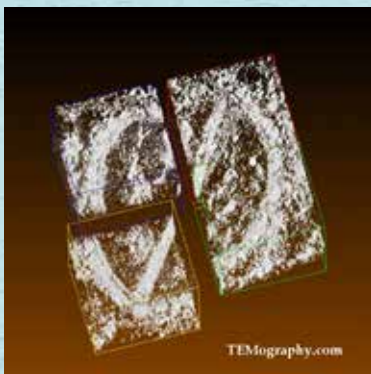
Function for simultaneous reading of multiple 3D data
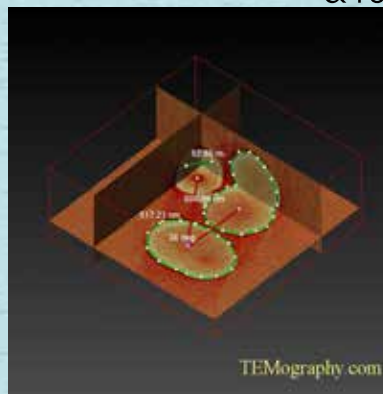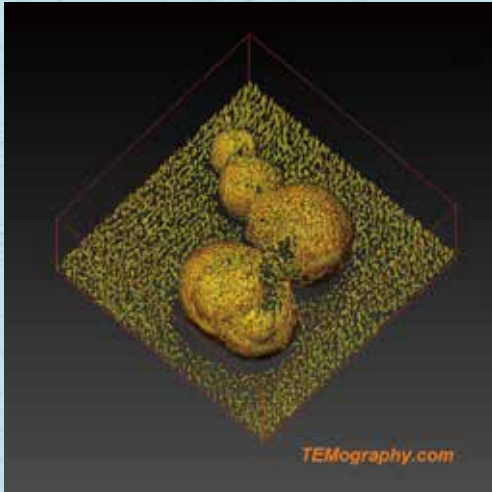

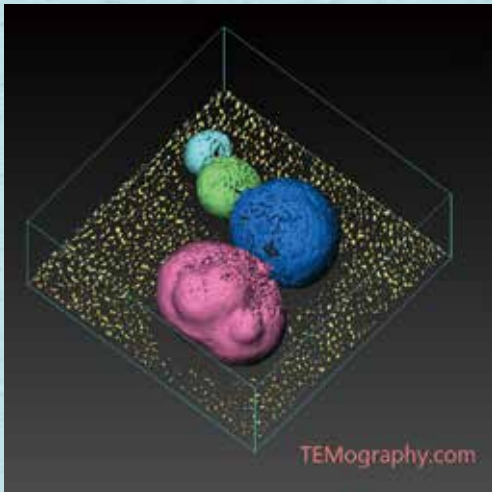Length measurement function

IsoSurface function

§ Operation example

IsoSurface function

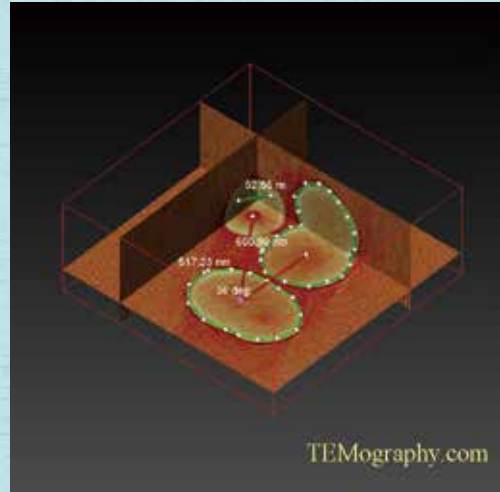Isosurface rendering for up to 3 layers

Length measurement function

3D spatial length & angle measurement

3DPDF creation function

PDFs can be interactively rendered in 3D with Acrobat Reader

Function for simultaneous reading of multiple 3D data

Perform volume movement/rotation and composition
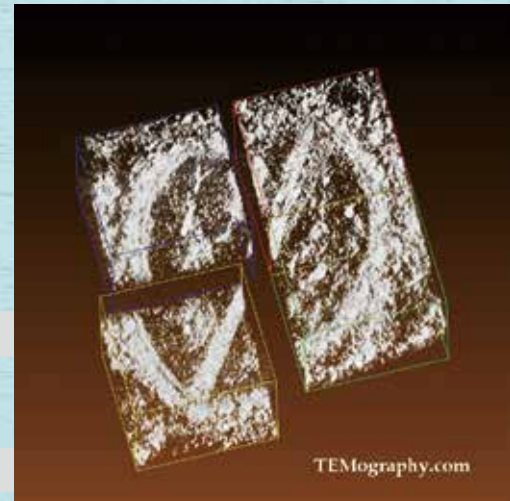
§ System configuration

Graphic card	It is essential to support Open GL 2.1 or higher (Quadro FX series of NVIDIA is recommended)
Main memory	4 GB RAM or more is recommended
Color monitor	A monitor with resolution of 1280 x 1024 or more is recommended
Reading format	BIN（output files of the Visualizer-kai)
OS	Windows10 64bit

The descriptions in this document are based on conditions as of May 2014. The functions and specifications of this product may be changed without any prior notification.
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