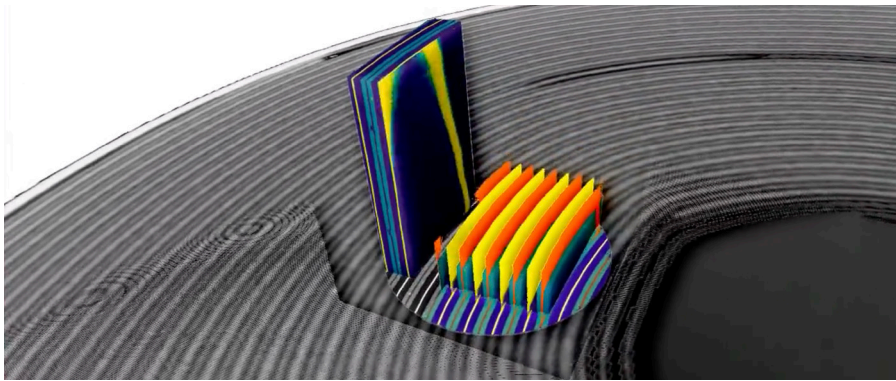


Outstanding 3D Visualization

With Best-in-Class Graphics

Dragonfly 3D World ZEISS edition

Explore your data in the highest definition through the **Dragonfly 3D World ZEISS edition software**. It is designed to manage your workflow from start to finish. With an intuitive user interface, this software provides you with a full-featured 3D visualization and data analysis platform. Various features such as interactive navigation, advanced segmentation tools, easy annotation, and object analysis provide you with simple processes and high-quality results. Engineered to support the needs of microscopists, the upgrade supplies a common workspace for integrating multi-scale correlative microscopy, spanning cm to nm. Customize your functions, features, and widgets through the programming language Python to automate your software for the highest productivity.



Still image from two X-ray tomography (XRM) scans of an 18650 Lithium-ion battery, captured with ZEISS Xradia 620 Versa. The scan, visualized using Dragonfly 3D World ZEISS edition, reveals high-resolution details of the battery's interior, showcasing different segmented layers of the electrode and current collector components.

Availability

Dragonfly 3D World ZEISS edition is available for the following systems:

- XRM series
- FIB-SEM series
- SEM series

Why Choose Dragonfly 3D World ZEISS edition?

Seamless Correlative Microscopy

Integrate multi-scale, multi-modal datasets from EM, XRM, and Diffraction Contrast Tomography. Easily register and stitch your 3D datasets for cohesive analysis. Bring together data from various imaging modalities, enhancing your results and improving accuracy.

Advanced 3D Visualization

View and analyze your data in the highest definition. Apply visual effects such as look-up tables, regions of interest (ROI), and depth of field controls. Freely inspect multi-planar slices and adjust opacity levels for sharp definition of objects in 2D and 3D.

Advanced Segmentation & Analysis Tools

Take advantage of cutting-edge machine learning segmentation and real-time object analysis. Measure particle metrics such as surface area, volume, and porosity, and conduct intensity distribution profiling with ease. Apply intuitive masking and object-splitting operations for more accurate analysis.

Product Highlights

High-Impact Visualization

Sharpen the clarity of your data with real-time visual effects, including look-up tables, multi-ROI support, and depth of field controls. Freely inspect multi-planar slices, adjust opacity levels, and visualize your data with professional 3D graphics that reveal the key structural details of your samples.

Deep Learning Integration

Harness neural networks for segmentation with the optional Deep Learning Module. Powered by TensorFlow and Keras, it lets you train, reuse, and apply models to complex tasks. Use pre-built models or develop your own for AI-enhanced results.

Comprehensive Image Processing Tools

Enhance your datasets with a broad range of image processing functions, including edge detection, morphology, contrast adjustment, and texture analysis. Whether you need to smooth images, apply filters, or correct shading, Dragonfly 3D World ZEISS edition equips you with the tools to achieve high-quality results.

Upgrade Your Microscope with Dragonfly 3D World ZEISS edition

Unlock unparalleled 3D visualization, segmentation, and analysis capabilities. This software integrates seamlessly with ZEISS systems, enabling you to explore your data in new ways, automate routine tasks, and leverage advanced tools like machine learning and Python scripting.

For more details on how Dragonfly 3D World ZEISS edition can benefit your processes, contact:

microscopy@zeiss.com



Seeing beyond