LIFE SCIENCE

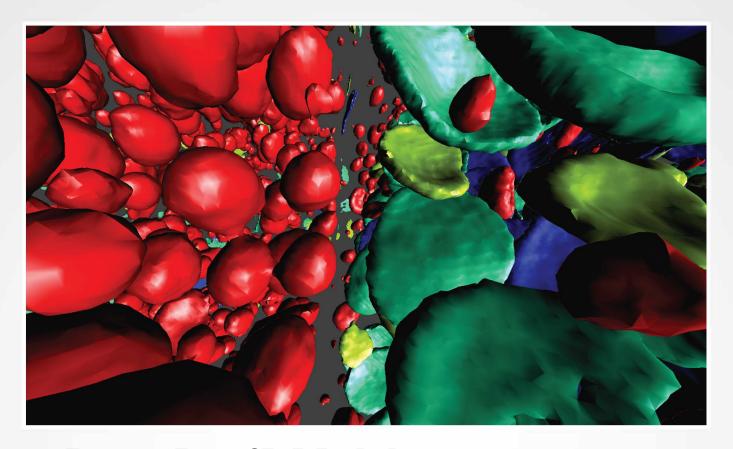
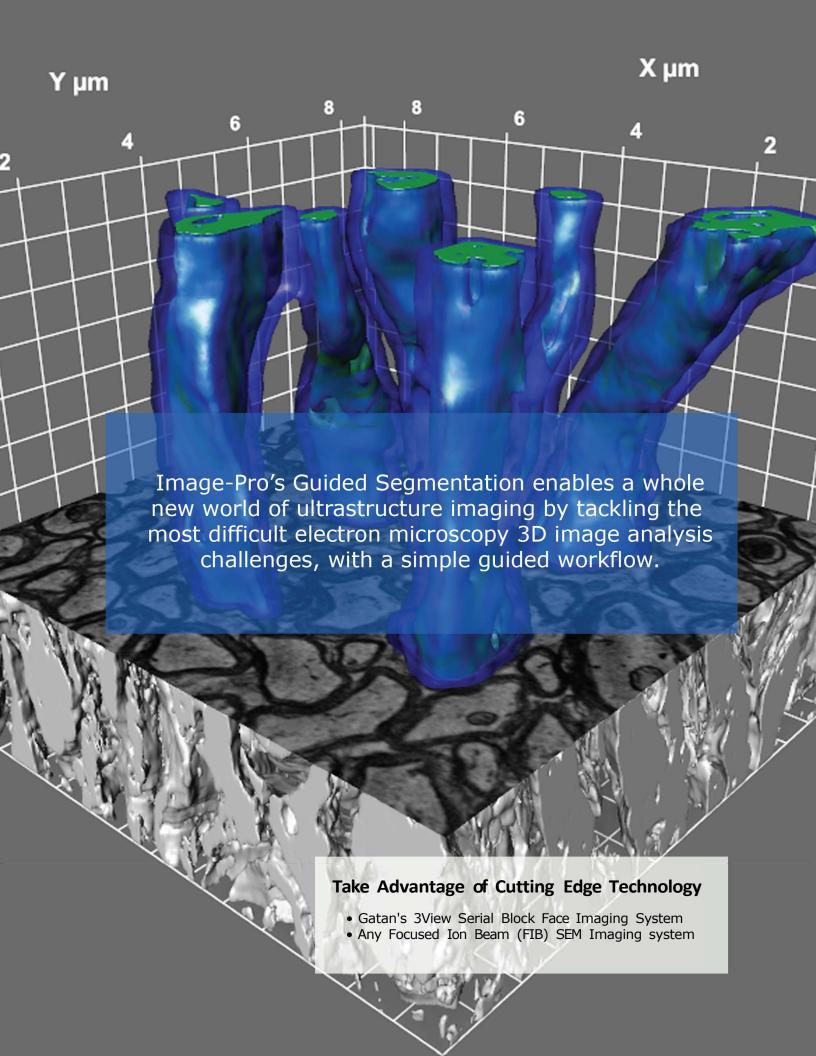


Image-Pro 3D Module
Powerful Multi-Dimensional Image Analysis

Product Brochure

FROM IMAGES TO ANSWERS

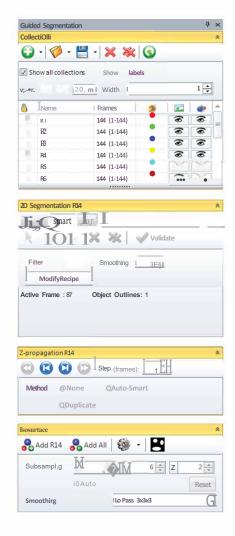




Guided Segmentation

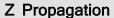
Measure Complex 3D Objects

Guided Segmentation is designed to enable the identification and measurement of complex 3D objects that cannot be easily pinpointed using standard 3D segmentation techniques. Define object outlines on select 2D planes using semi-automatic object segmentation techniques and then generate your 3D objects for measurement.



Generate Outlines

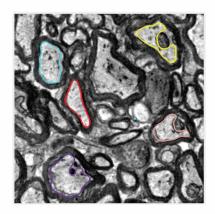
Using any 2D frame throughout the stack users can define objects as unique collections of outlines, named and color coded for clarity. Use a semi-automated region wand, pixel classification algorithm like smart segmentation, or even draw an ROI outline manually to define custom initial object boundaries.

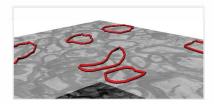


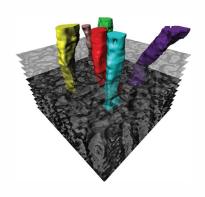
Once an outline is defined, the propagation throughout the stack occurs by auto-populating the segmentation up or down through the stack, allowing the user to review the edit as needed.

Isosurface Creation

Automatically generate isosurfaces from your collection(s) of outlines for the purposes of volume, surface, intensity, and unique morphological object measurements. Over 60+ measurements available.

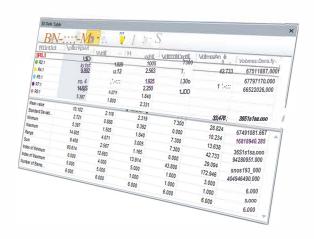






Objects generated by Guided Segmentation behave like any other object with visualization and style properties at your disposal. Save your 3D views and settings for using later or even save your original outline collections to be combined with another users' collection.

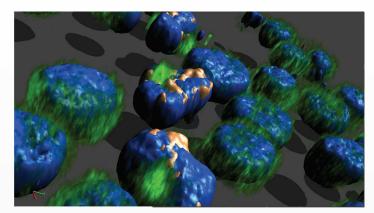
Once the objects are measured, interactive data tables are populated and are accesible from the 3D Measure ribbon. Here you can sort, select, rename, show statistics, and hide/show objects. You can also copy to dipboard, export to Excel, and even send your table to one of your predefined customized reports.



Superior Visualization

Interactively display data sets in 2D, 3D or 4D with stunning results

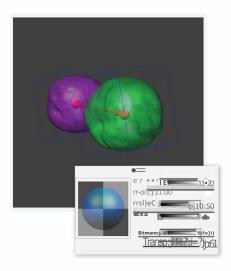
Image-Pro breaks new ground for your volume viewing and rendering needs. Input a variety of datasets such as confocal 3D stacks or 4D timelapses and visualize in the highly functional 3D/4D, Slicer or Gallery Views.



High Quality Visualize tools

Exceptional visualization made easy.

Blend, MIP, and Sum Projections Spread, Opacity, Specularity Color Palette Editor & Presets Light Sources and Shadows Orthogonal and Oblique slicing Wireframe & Isosurface Renderings Pseudo-Surface and Stereo Views Slice Density, and Edge Coloring

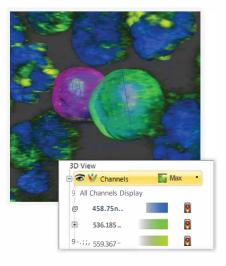


Intuitively adjust object properties by doubleclicking on the object of interest. View additional objects or even measurements within.

Simplified Channel controls

Made for Multi-Channel complexity

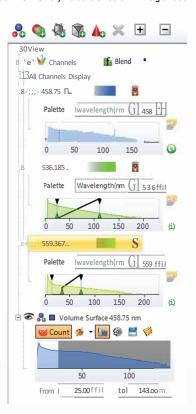
Retain native metadata of channels Retain AutoQuant metadata Retain channel coloring Toggle or Blink each Channel Opacity weighted auto blending Independent histogram edits Channel-specific Isosurfaces Channel Extraction or Merging



Selectively display the channels and objects of interest with simple to navigate controls and settings.

Intuitive settings only a click away

Volume visualization and measuring is already complex enough, so simple but powerful controls for each channel, slice, and isosurface are are located conveniently beside each image set.



MRI

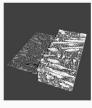
Micro-CT

SBF-SEM

Multi-Modality techniques







Simplify your life with a single software platform to handle various imaging modalities such as computed x-ray micro-tomography, Light and Fluorescense microscopy, MRI, TEM tomography, Focused Ion Beam FIB-SEM, Serial Block Face SEM, and many other imaging modalities. With flexibility and ease of use, Image-Pro enables advanced 3D/4D imaging workflows for specialists in research areas ranging from molecular and cellular biology to neuroscience and bioengineering.

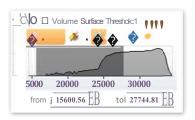
Measurements

Broad Range of Powerful Analytical Tools

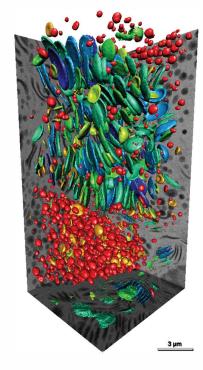
Image-Pro delivers the very best in volume measurements, object counts, 3D manual measurements, data interaction, statistical comparison, multi-image data collection, batch processing and custom reporting using proven methods from over 30 years of expert imaging experience.

AutomaticObject Segmentation

- · Real-Time Threshold and Render
- Count & Measure object volumes
- Render unlimited channels
- Compare volumes, measure Vol %
- · Object naming, coloring, and editing
- Object Auto-Splitting

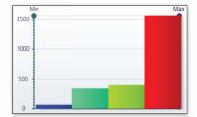


- Measure Size and Shape
 Object Volume, Box Volume, Depth
 Diameter, Radii, Feret Ratio,
 Surface Area
- Measure Intensity
 Object Intensity, Density,
 Integrated Optical Density, and
 Intensity over Time



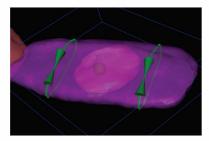
Automatic Object Classification

- Auto Classify (color code) objects by a given measurement
- Sort objects in the smart data table and group by similar characteristics
- Data tables & objects linked for quick reference to an object
- Sortable Tables and Charts able to be grouped to view class statistics
- 60+ measurement types for object values
- Statistics per Measurement and per class are available



Manual Measurements

3D object contours using 2D polylines on slices X,Y,Z Size, Shape, Orientation, and Intensities X,Y,Z coordinates at any 3D location 3D Centroids, Surface Area, Circumferences Distance between objects, and merge/split.



Use only 2 points and the viewing angle to measure the circumference around any object.

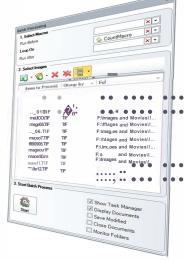
3D lengths from surface to surface 3D lengths from surface to center 3D lengths following along an object's surface Relative angles between lines Relative angles to reference vectors



Use only 2 points and the viewing angle to measure the distance on the surface or along the surface.

Automate your Analysis with 1-2-3 Batch Processing

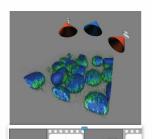
- 1- Record your workflow in a macro
- 2- Apply existing macro or App to an entire folder of image sets
- 3- Start!



Key Frame Animations

Powerful animation tools enabling the creation of realistic

movies comprised of complex movements & renderings.



Pre-loaded Templates Circular Animation Fly-Around Animation See-saw Animation

Sharing

Save & Load Animation Paths for future use Generate identical movies Save as WMV, AVI & MP4 Custom Animations
Record camera position,
angle and zoom
Add & Replace positions
Record volumes, surfaces,
and object counts
Record Oblique or Ortho
clipping planes
Improve quality with
smoothing and Anti-Aliasing
options

3D Colocalization Optional Module

Independently threshold each channel on full volume or use Region of Interest

Count colocalized 3D objects Show resultant voxels in 3D Colocalization Measurements:

Pearson's Correlation Overlap Coefficient Overlap Coefficients k1 & k2 Coloc Coefficients m1 & m2 Coloc Intersection Coloc I1 & I2

2D Live Capture Optional Module

Capture high quality images directly from a scientific camera

Instant Acquisition Record Time-lapse Stream to Disk HDR Capture Live Tiling Live EDF Live Measurements Intensity Over Time Live Image Comparison Crosshair Grid

Red © 1882

Recommended System Requirements

• OS: Windows 7 or 8.1, 64-bit

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- Processor: 2.8 GHz CPU Intel quad-core 64-bit processor (Core i7 Series) or better RAM: 16GB memory or higher
- Free Disk Space: Multiple High Speed SATA Hard Disks or SSDs; 8 GB free on installation drive + free space for images (500+ GB)
 Graphics Card: nVIDIA GeForce GTX Cards with 4GB graphics memory & Open GL 4.2 or higher
- DVD-ROM drive
- USB port required for hard licenses and offline license activation Internet Explorer version 9 or higher Internet connection required for online services*

For users who want the best possible experience and product performance, we recommend that you review the requirements above and follow up with a review of the hardware priorities to understand how the whole system plays a part in achieving higher performance.

For more information and for High Performance requirements, please visit mediacy.com

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