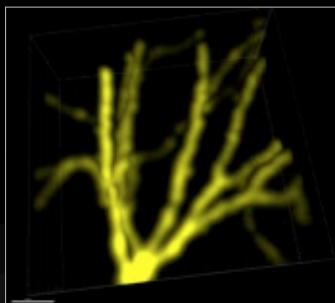
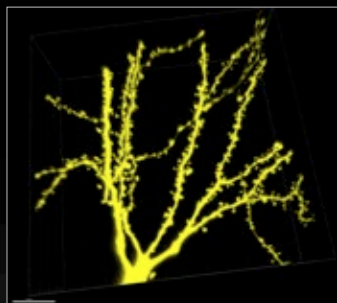


Imaris XT links life sciences researchers and community software developers. This module is designed to enable mass customization and foster scientific collaborations.

With **ImarisXT** you can perform task-specific segmentations and analyses to boost the analytical output of **Imaris** and its modules. With the ability to read virtually all microscopic formats, Imaris provides a fast, powerful, interactive and easy to use environment to visualize and analyze image data. **ImarisXT** is a multi-functional two-way interface from (to) several popular programming languages.



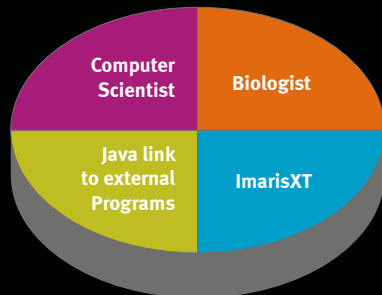
ImarisXT allows integration of task-oriented algorithms image processing, segmentation, classification, or reporting into provides a customizable user interface for seamless integration of new modules.

Left: A volume rendered pyramidal cell processed with the Fiji smoothing filter in Imaris. Right: processed cell.

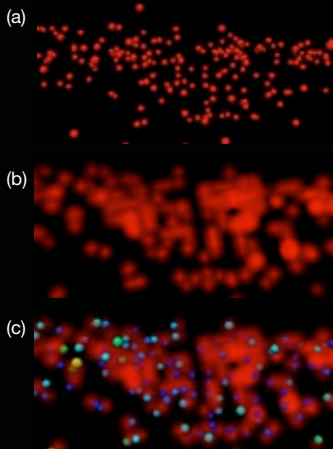
Main Image: 3D data set processed with an ImarisXT XTension visualizing two pools of vesicles located at a defined distance (closer than 5 μm - red, and farther than 5 μm - yellow) from surface-rendered structures (green). Images courtesy of Tomoko Shibutani, DAIICHI Pharmaceutical Co.

ImarisXT

Revolutionizing Microscope Imaging and Analysis



Allowing Biologists and Computer Scientists to develop and share their custom analysis protocols.



A super-resolution dataset (a) imported to Imaris for analysis and transformed into a volume object (b), which was ultimately surface rendered and analyzed in ImarisMeasurementPro.

Imaris Open



The Imaris Open platform fosters collaborations between microscopists, life scientists, and computer scientists. Imaris Open offers two distinct but linked spaces: the [Discussion Forum](#) and the [File Exchange](#).

There are four main activities you can engage with while using Imaris Open, 1) download an existing XTension, 2) request a new XTension, 3) submit a new XTension, 4) discuss any topic related to Imaris, image visualization, analysis and interpretation. Imaris Open and all its content are free to use.

open.bitplane.com

Flexibility



Your Benefits

Answer challenging questions with targeted tools.

Integrate your custom algorithms into Imaris.

Tap into Fiji/ImageJ image processing algorithms.

Visualize and analyze results in Imaris.

Profit from Imaris' ease of use in Mac OS and Windows.

Quickly develop custom tools and see results of their performance.

Efficiently link biologists, computer scientists and image analysts.

XTensions - Imaris XT Open Source plugins

- Program your own analysis and profit from modules developed by other Imaris users - visit open.bitplane.com/file-exchange
- Pre-Existing Library - Over 45 free and open source XTensions are fully documented and packaged with each Imaris XT installation.
- Exchange - XTensions can be exchanged peer-to-peer or can be made publicly available in Bitplane's XTension library
- XTension Lists - Lists are available for all XTensions for MATLAB, Python and ImageJ.

Open Source community - link to ImageJ / Fiji

- Imaris provides Fiji / ImageJ compatible plug-ins aimed at performing additional image processing. Fiji / ImageJ offers a solution for specific problems with image analysis and boosts the analytical capability of Imaris.
- Use your current Fiji/ImageJ routines while working within the Imaris structure
- Enhance and extend the functions of Imaris with Fiji/ImageJ plug-ins

Data Exchange via Java interface.

- Exchange Image Data - voxel intensities, voxel size, channel description, time calibration and image metadata can be exchanged between ImarisXT and external applications
- Data including spot coordinates and other Derived Image Data like diameters, surface objects (triangle coordinates), tracks (connections of spots and surfaces), filament graphs (coordinates, diameters), cell components (cell body, nuclei, vesicles) and new statistical values can also be exchanged between ImarisXT and external applications.

Custom programming interface

- Java Interface - ImarisXT provides a Java interface to exchange image data and derived image data from Imaris with another application.
- Programming Languages - Programming languages like Matlab, Java, Python, C#, C++, and VisualBasic support easy integration of Java interface and can be used with ImarisXT
- Imaris XT is equally compliant with both Mac OS and Windows based systems
- ImageJ Plug-In - Use readily available functions in the ImageJ software with the advanced visualization features of Imaris via an ImageJ plug-in that uses the ImarisXT interface

Customizable User Interface

- Insert custom-written image-processing XTensions, into Imaris' Image Processing Menu.
- Create custom objects with algorithms that can be inserted as a custom Surpass Tool Bar button.
- Surpass Tool Tab - algorithms that are directly related to or require existing Surpass components (spots, surfaces, filaments) can be inserted in the "tools" tab of Surpass.

Email us at: welcome@bitplane.com

bitplane.com

America

Bitplane Inc.
425 Sullivan Avenue
Suite #3, South Windsor
CT 06074, USA
Tel: 1 (860) 290-9211
Email: ussales@bitplane.com

International

Bitplane AG
Badenerstrasse 682
CH-8048 Zürich
Phone: +41 44 430 11 00
Fax: +41 44 430 11 01
Email: sales@bitplane.com

Software requirements

ImarisXT depends on installed Imaris modules and may require Imaris MeasurementPro, FilamentTracer, ImarisCell and ImarisTrack as well as development environment (compiler, editor etc.) for creating new or editing existing XTensions.

Operating system requirement

ImarisXT runs on PCs with Microsoft® Windows® XP, Vista, 7 (32 and 64-bit) and MacOS (10.6 or later).

Windows systems - we recommend using 64-bit OS with 16GB RAM, 3.3 GHz (or faster) quad-core CPU with 64-bit support.

Mac systems - we recommend using Intel 2.8 GHz (or faster) quad-core CPU and 16GB RAM

Graphics boards - ATI/nVidia graphics card with 512 MB RAM. For full list of supported hardware please visit bitplane.com/go/support/system-requirements