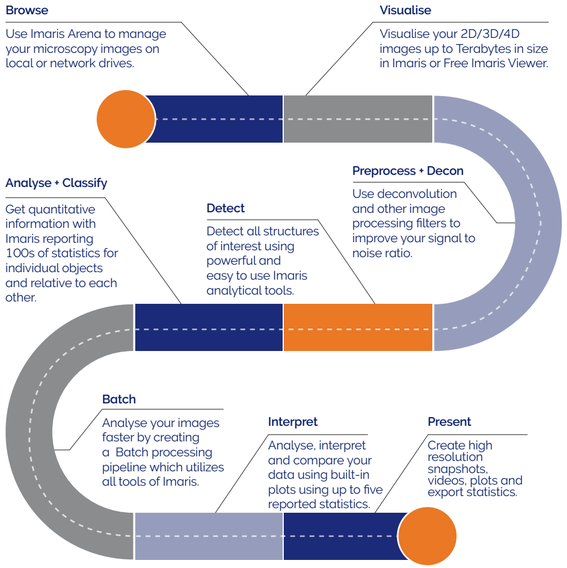
IMARIS

Raw Images to Scientific Insights

IMARIS Workflow

Imaris provides the full workflow for researchers to manage and analyse their microscopy image data from browsing images on different drives, through analysis and interpretation to various ways of sharing the results.



Imaris Maintenance Services

Much more than a maintenance contract

Find out more today at imaris.com/imaris-maintenance

The Imaris team works with you to understand your research needs and define the perfect image analysis protocol as a solution. Our aim is to establish a true collaboration so you receive the greatest Imaris benefits. As your needs change, we listen carefully to your feedback and work to bring you innovative image visualization and analysis tools in new versions of Imaris and our family of products.

Our Maintenance Services Include:

- New releases on an average of 6 months cycle.
- Technical support
  - Phone, email and screen sharing / remote desktop options
- Image analysis & application support
  Phone, email and screen sharing / remote desktop options
- Training
  - Onsite (Imaris Open day)*: benefit from dedicated, expert hands-on advice and training in your laboratory or imaging center
  - Custom video tutorials
  - Custom text / image tutorials
  - Priority access to Imaris User Group Meetings (attendance fee may be applicable)
  - Additional training and education via regular web seminars and video tutorials

*Conditions Apply

System Requirements and Licensing Types

Windows 10

Mac OS X 10.9 - 10.13

Permanent node-locked and floating license options are available.

For full list of supported hardware please visit imaris.com/system-requirements

International

Bitplane AG
Badenerstrasse 682
CH-8048,
Zürich

Email: sales@bitplane.com

Americas

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425 Sullivan Avenue, Suite #3
South Windsor, CT 06074
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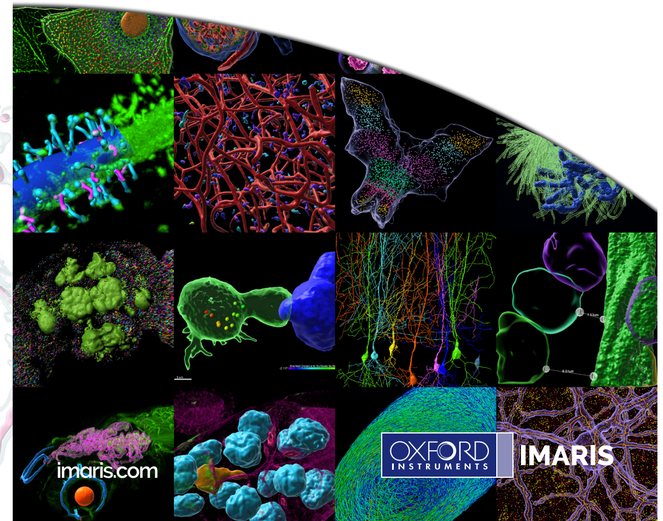
Email: ussales@bitplane.com

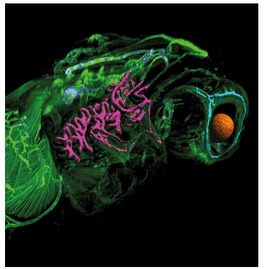
Find us on

OXFORD INSTRUMENTS IMARIS

IGF 0820

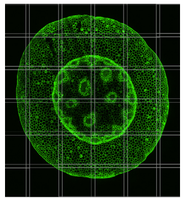
3D/4D Visualisation ● Analysis
Stitching ● Deconvolution





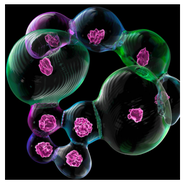
Imaris
State of the Art Image Visualisation and Analysis

Over the last 25 years Imaris has continuously improved upon its visualisation technology for 3D/4D fluorescence images to accommodate ever increasing image sizes while introducing a range of analytical tools for cell biologists, neuroscientists and a wide array of other life science disciplines. At your disposal is a fully integrated platform to organize, visualise, (batch) analyse, and explore your images and their results allowing you to test hypotheses and present your conclusions in the best possible manner.



Imaris Stitcher
Big Data Capable Image Stitching

Imaris Stitcher is the newest member of the Imaris family and is a stand-alone application made for precise alignment and fusing of multiple microscopy image tiles into one 2D, 3D or 4D volume. Stitch multiple image tiles in XYZ while also correcting for a common acquisition condition: camera rotation relative to the microscope stage. Imaris Stitcher's interface and workflow allow you to easily align and stitch image tiles to export images terabytes in size.



Imaris Viewer
Share Your Data With The World

The Imaris Viewer allows you to open raw images as well as those analyzed within Imaris. The free and portable Imaris Viewer ensures the interactive 3D rendering of your images matching the original Imaris performance and quality. Sharing your data and presenting it on conferences was never easier.

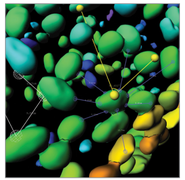
Imaris® - Enabling Scientific Discovery Since 1992

Measurement Pro

Quantitative analysis of extremely large and complex images

Imaris MeasurementPro adds geometric and intensity measurement capabilities to Imaris.

- Interactively render massive surfaces & millions of spots
- Create Surfaces & Spots from extremely large images
- Classify & label Spots and Surfaces using Machine Learning Classifier or interactive filters — NEW
- Report & compare parameters based on detected classes — NEW
- Measure intensity on a per channel basis
- Color-code detected objects based on any calculated parameter and intuitively select objects to extract key parameters
- Determine angles and distances between points of interest
- Calculate distance measurements relative to a specific position or another object within the image
- Select many objects and assign label names and colors
- Build and measure 3D objects based on 2D contours

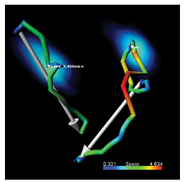


Imaris Track Lineage

Explore motion and detect cell divisions

ImarisTrackLineage is the cutting-edge scientific solution for 3D and 4D object tracking

- Automatically track objects in 2D or 3D + time
- Choose from the multiple tracking algorithms depending on the motion type you need to study
- Handle thousands of objects per time point — FASTER
- Handle thousands of time points — FASTER
- Interactively edit, create and revise tracks and tracked objects
- Report numerous object and track related parameters, such as speed, displacement, straightness, shape, intensity and size
- Automatically detect cell division events to determine cell cycle duration & generation, while displaying an interactive lineage tree
- Automatically correct translational and rotational drift using Reference Frame

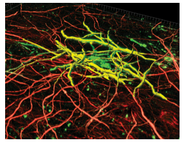


Imaris Coloc

Isolate, visualize and quantify colocalized regions

ImarisColoc assesses the distribution of one label relative to another.

- Multiple colocalization selection methods including an automatic mode based on an established algorithm
- Obtain statistics in real time
- Present data as a new 3D or 4D color channel
- Expand or narrow the computed histogram region
- Perform analysis on specific ROIs
- Co-localization of entire time series analyzed in fewer steps

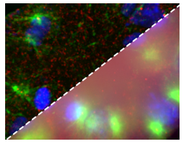


Imaris ClearView

GPU-Accelerated Deconvolution

Imaris ClearView includes integrated deconvolution algorithms.

- Optimized for GPU processing on NVidia and AMD boards
- Available for both Mac and PC computers

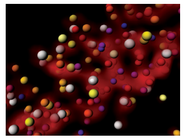


Imaris XT

Expanding horizons through customization

ImarisXT is an API that enables programmers to add functions and transfer data to and from Imaris.

- Extend Imaris functionality with your own plugin (XTension)
- Two-way data exchange between Imaris and Matlab, Java and Python
- Supported by the Imaris Open web platform (open.bitplane.com)
- Powered by members of the "ImarisXT Developer Program"
- Free download of 70+ documented XTensions

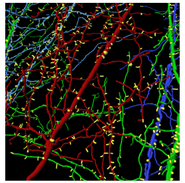


Filament Tracer

Intelligently trace neurons in 3D image with Torch™

FilamentTracer allows for the detection, tracing and analysis of filament like structures.

- Interactive 3D tracing methods available: Wizard Guided Automatic or AutoPath and AutoDepth revised for optimal performance in big images
- Automatic detection and morphological characteristics of dendritic spines
- Facilitated tracing in dense neural networks with Imaris Torch™ tool
- Statistics such as branch length, diameter, area, volume, spine density, filament topology and many more
- Direct interaction with the whole filament, individual branches, segments or particular points with multiple editing possibilities
- Premier 3D filament and spine model visualization options (e.g. size, color) together with non-filamentous objects
- Tracking and detection of temporal changes in shape and position (with ImarisTrackLineage)

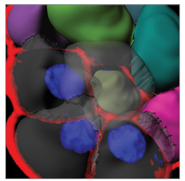


Imaris Cell

Making sense of your cells' relationships

ImarisCell allows analysis of cell groups and individual cells and their components on a per cell basis.

- Examine relationships between cells and cellular components within a cell
- Utilize biologically meaningful image analysis units (cells, nuclei and vesicles)
- Detect cells based on cytoplasm or plasma membrane staining (new cell detection algorithm when only membrane labeling is available)
- Detect and classify multiple populations of vesicular objects
- Examine the behavior of cells in 2D to 4D data sets
- Measure mechanical and structural cell functions involved in cell-to-cell communication
- Save time by utilizing an advanced, structured and intuitive creation wizard

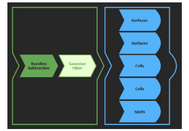


Imaris Batch

The Ultimate Imaris productivity tool

Imaris Batch allows for processing and analysis of multiple 2D/3D + time images in batch mode.

- Save valuable time by batch processing/analysis – apply an analysis protocol to large groups of images automatically
- Reproduce exact analytical procedures
- Interactively define the image analysis protocol which will be applied to "n" images
- Seamlessly integrated into the Imaris workflow including machine learning classification
- Unified pipeline of Image Processing into Object Detection — NEW
- Run batch jobs for Spots, Surfaces, Cells and Filaments
- Optimize the usage of Imaris licenses by running batch jobs autonomously when computing resources are less busy (e.g. overnight)



Imaris Vantage

Created for scientific discovery

Imaris Vantage allows users to interpret their results using interactive multi-dimensional plots.

- Select from: side-by-side one parameter plot, 2 parameter scatterplot and object gallery view & scatterplots
- Box and Whisker Plots, 5-Number Summary
- Compare two or more groups of images (control with test groups). Compare labeled classes with one another
- Use calculated parameters to specifiy dimensions, color coding and scale
- Identify trends and outliers
- Get the results of: Wilcoxon, T-test, F-test and Kolmogorov-Smirnov and export the results for further statistical analysis
- Create visually powerful data representations and at the same time facilitate a better understanding of intrinsically complex data