

**Eight unique, tightly integrated modules, provide you with an opportunity to build a package based on your specific needs.**

**Cross platform compatible with a choice of both 32-bit and 64-bit operating systems.**



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## Imaris Infinity

**Much more than a maintenance contract**  
 Find out more today at [www.bitplane.com/infinity](http://www.bitplane.com/infinity)

### Operating system requirements

Imaris 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 16 GB 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 16 GB RAM

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

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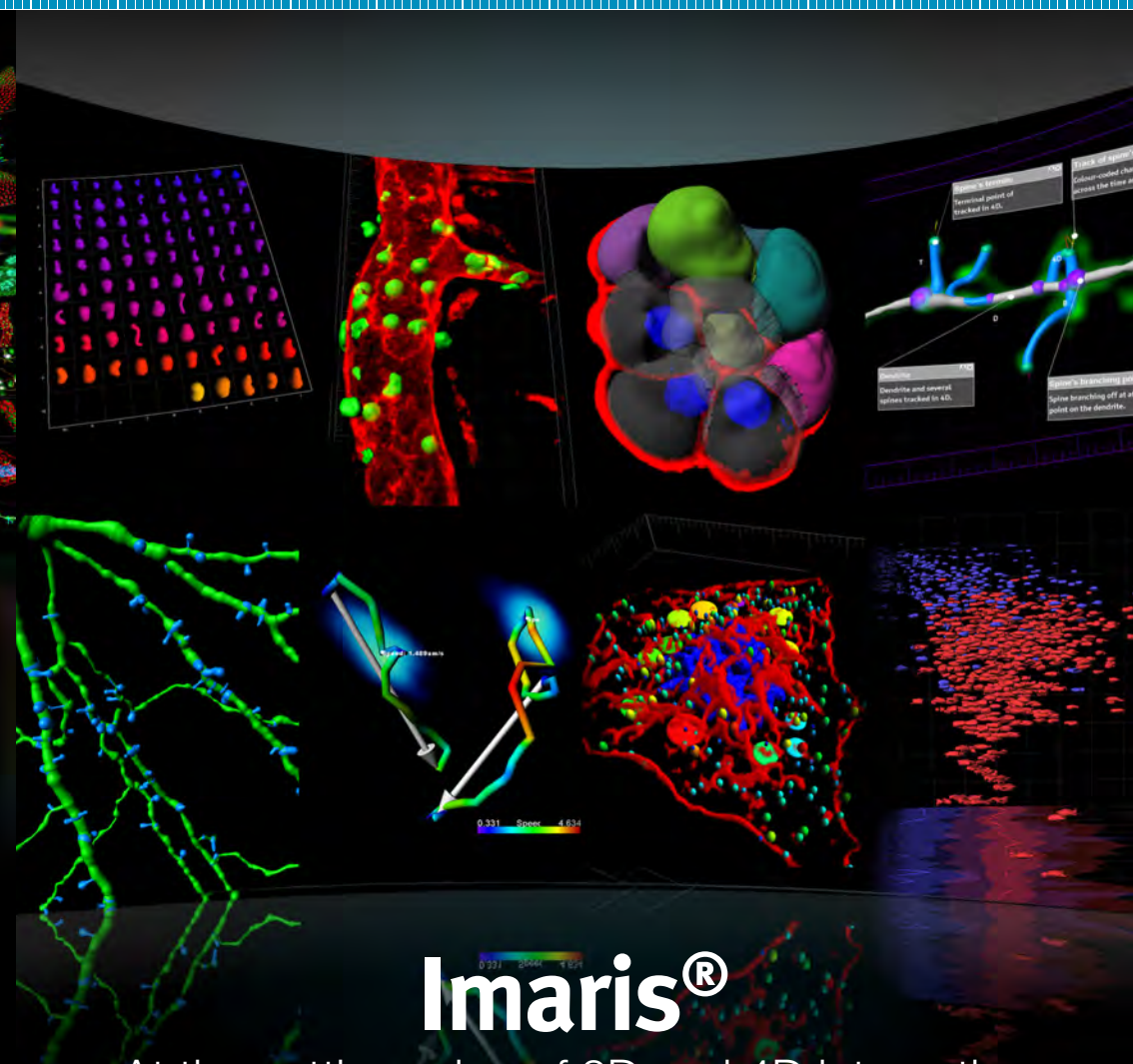
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## Bitplane

Analytical Image Processing  
 Solutions for the Life Sciences



## Imaris®

At the cutting edge of 3D and 4D interactive analysis and visualization.

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Explore the Next Dimension

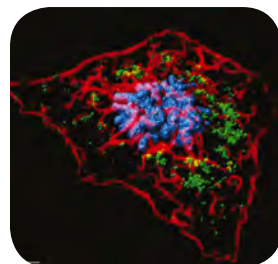
# IMARIS® - Enabling Scientific Discovery Since 1992

## Imaris

### The Leading Image Processing Solution for Life Sciences

Imaris is the core module of the Imaris software family providing essential tools for rapid interactive inspection of the microscopic image data.

- Read image data from 30+ file formats and virtually all microscope manufacturers
- Handle very large 3D/4D data sets - 50 GB or more
- View images in the Slice, Section or Gallery views and produce MIP or blend projections
- Combine volume rendering, iso-surface rendering, clipping planes, spherical spots, ellipsoid (z-adjusted) spots and slices in the interactive Surpass view
- Create complex movies with the easy to use key-frame animator
- Automatically identify and segment thousands of objects with a choice of multiple segmentation methods
- Utilize Imaris' processing capabilities by using multiple CPUs and multi-resolution rendering for fast visualization
- Use Bitplane's patented InMotion view to easily select and interact with objects in 3D space
- Imaris uses Standard Scientific Notation

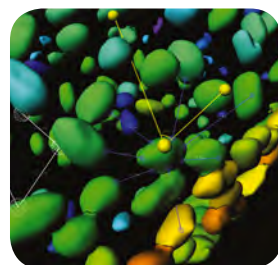


## Imaris MeasurementPro

### The Importance of Quantitative Image Analysis

Imaris MeasurementPro adds geometric and intensity measurement capabilities to Imaris.

- Obtain, view and export measurements related to size, shape and intensity
- Obtain precise measurements of intensity values for groups of selected voxels on a per channel basis
- Intuitively select objects of interest for extracting key statistical parameters
- Interactively sort and classify objects in real-time based on calculated statistical parameters
- Determine angles and distances between points of interest
- Build and measure 3D objects based on a 2D contour
- Create masks to selectively include or exclude ROIs

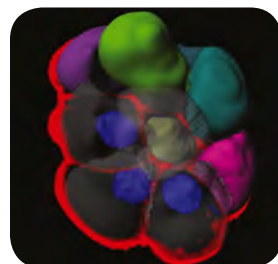


## ImarisCell

### Making Sense of Your Cell's 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 labeling or based on plasma membrane labeling (two algorithms available).
- Detect and classify vesicular objects of various populations
- Analyze cells in biological space - 2D to 4D
- Measure mechanical and structural cell functions involved in cell-to-cell communication
- Save time by utilizing an advanced, structured and intuitive creation wizard

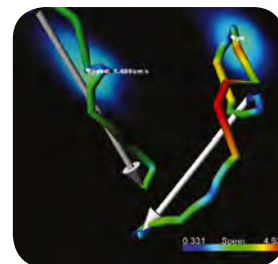


## ImarisTrack

### Discover the Meaning of Motion

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

- Automatically track objects in 3D + time
- Choose from a large variety of tracking algorithms to optimize results
- Handle thousands of objects and thousands of time points
- Manually edit, create or revise tracks
- Generate object and track statistics based on changes in size, intensity, shape, speed, displacement, straightness and many more parameters
- Sort and visualize tracks interactively with their path, displacement vector or "dragon tails"
- Combine ImarisTrack with ImarisXT for powerful project-specific data mining
- Track touching objects and objects with a low signal to noise ratio

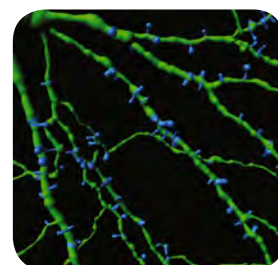


## FilamentTracer

### The Intelligent Way to Visualize and Measure Filamentous Structures

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

- Four interactive tracing methods available: Automatic, AutoPath, AutoDepth and Manual
- Control the maximum gap allowed before filament tracer halts
- Obtain numerous statistics such as branch length, diameter, volume and filament topology
- Manually draw segments with automatic centering and region growing
- Directly interact with the whole filament, individual branches, segments, or particular points (e.g. branches)
- Visualize filaments together with non-filamentous structures using Imaris' leading collection of specific visualization functions
- Use the results of FilamentTracer as input for additional downstream analysis
- Augment your analyses with Imaris MeasurementPro, ImarisTrack and ImarisXT for the most challenging and complex filament data processing

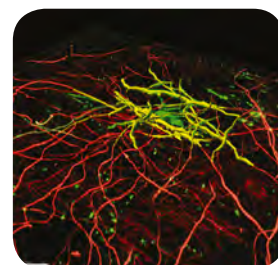


## ImarisColoc

### Isolate, Visualize and Quantify Colocalized Regions

ImarisColoc enables you to obtain key information about the relative position of labelled components within a specimen.

- Utilize multiple methods to select colocalization in images including fully automatic and active contouring
- Obtain colocalization statistics in real time and easily export the resultant statistics for processing
- Present colocalized data as a new 3D or 4D color channel in Imaris for further visualization or processing

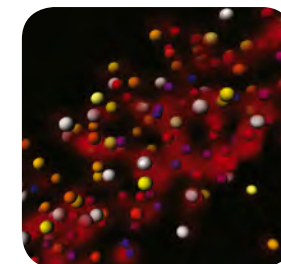


## ImarisXT

### Revolutionizing Microscope Imaging and Analysis

ImarisXT is a multi-functional duplex interface from Imaris to classic programming languages.

- Tailor Imaris to answer your most challenging questions with targeted tools
- Develop custom algorithms for image processing, segmentation, classification and reporting
- Seamlessly integrate new modules with Imaris' customizable user interface
- Profit from modules developed by others and available from Bitplane's Module Archive
- Exchange data between Imaris and Matlab, Java, C++, C#, Visual Basic and others via the COM interface
- Efficiently link biologists and computer scientists
- Full descriptive library of all (45+) XTensions
- Super Resolution XTensions (load processed PALM and STORM data from QuickPalm)

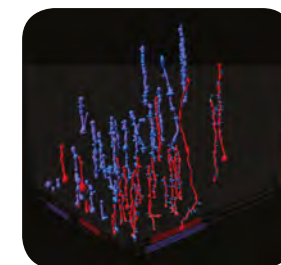


## ImarisVantage

### Created For Scientific Discovery

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

- Select from 4 classes of plots; gallery, xyz "real world", xyz "time" and xyz "scatter"
- Box and Whisker Plots, 5-Number Summary and Projection Plots
- Use calculated statistical parameters to drive each of the axis, color coding, scale and display order (gallery view)
- Compare/contrast experimental groups, populations and subpopulations
- Use the two way link between statistical tables and the 3D/4D rendered objects to identify relationships between calculated parameters
- This module creates visually powerful data representations and at the same time it facilitates a better understanding of intrinsically complex data
- Create 3D/4D annotations within the Surpass view. The annotations can be free text or a real-time display of statistical parameters.



## ImarisBatch

### Automation of Image Processing and Analysis

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

- Save valuable time by batch processing - repeating certain procedures multiple times automatically
- Reproduce exact analytical procedures and easily document what analysis is done for every image
- Decouple time consuming procedures from interactive Imaris sessions to free a copy of Imaris for other analyses
- Share resources with Batch shifting the time of job processing to when computing resources are less busy
- Utilize large servers for parallel processing to run each job on a separate processor for best performance
- Use powerful interactive visualization tools of the Imaris product family to optimise tasks and parameters of your automated batches
- Customize and standardize command sequences to be executed on each input file within a large data set

