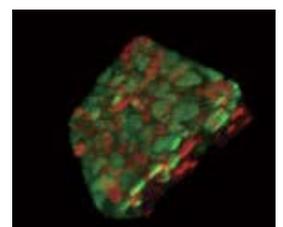
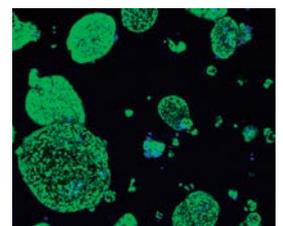
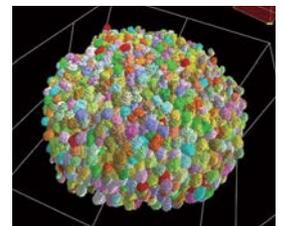
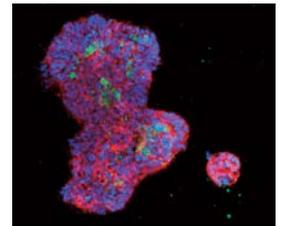


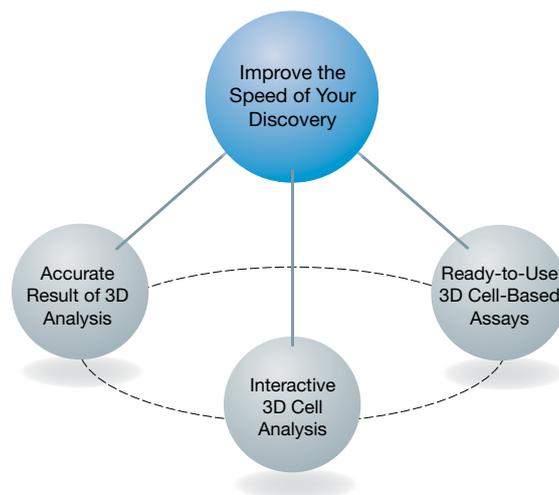
## Insightful Analysis, Intelligent Answers



## Improve Your Speed of Discovery

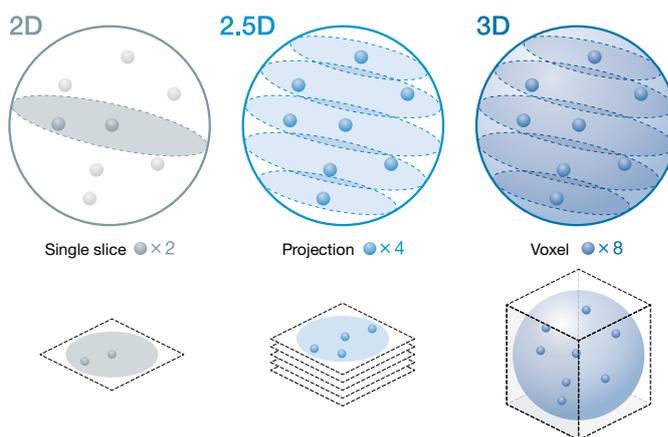
NoviSight 3D cell analysis software is designed for microplate-based experiments. Using multiple images of the microplate, the software's True 3D technology enables you to check the morphology of your samples. A range of parameters can be easily measured, including the volume and sphericity of both the total cluster and the nuclei of the cells making up the spheroid. For biologists, using 3D samples is advantageous since it enables the measurement and analysis of physiologically relevant 3D models.

By improving the accuracy and speed of 3D analysis and making observation more efficient, NoviSight software will improve your speed of discovery.



## See What's Hidden in the Depth of 3D

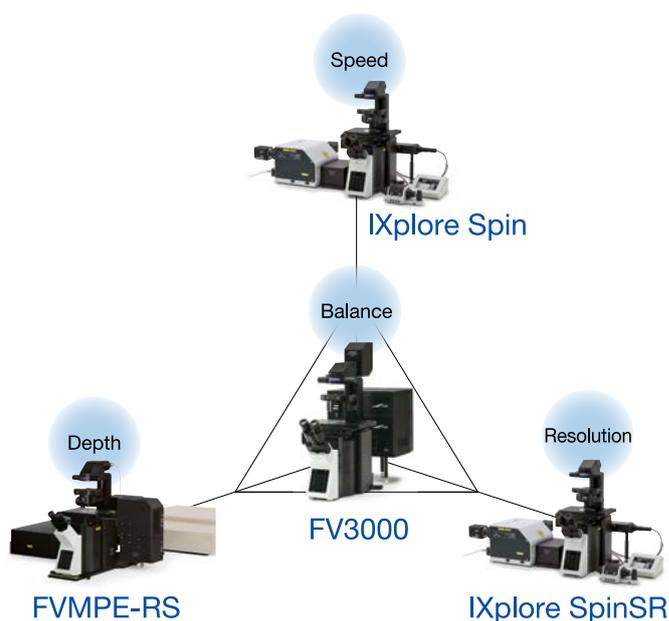
If you are still using two-dimensional methods to analyze three-dimensional samples, you're not seeing the whole picture. NoviSight software makes it easier to capture rare cell events, get accurate cell counts, and improve the sensitivity of detection.



## Compatible with All Olympus Confocal Imaging Systems

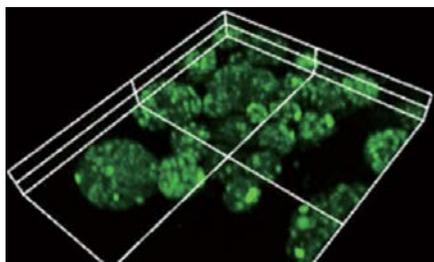
NoviSight software can analyze images captured by any of our confocal imaging systems. No matter which system you use, the software will quantify and analyze the objects you capture.

- **FV3000:** Point scan confocal imaging of biological samples with high flexibility of wavelength, resolution and speed.
- **FVMPE-RS:** Two-photon imaging in live tissue / spheroid reveals both detail and dynamics deep within the specimen.
- **IXplore Spin:** Fast confocal image acquisition with a large field of view.
- **IXplore SpinSR:** Super resolution for live cell imaging with a 120-nanometer resolution.

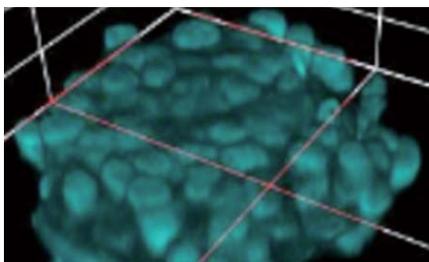


## Fast, Precise Object Detection

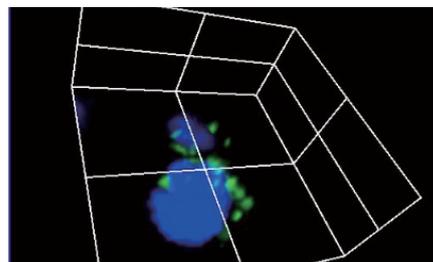
With numerous detection algorithms designed for 3D samples, the software can quantify cell activity and interactions in three dimensions. With precise detection, NoviSight software analyzes objects of interests to provide morphology and spatiotemporal parameters in 3D space.



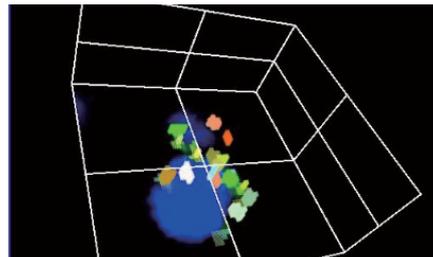
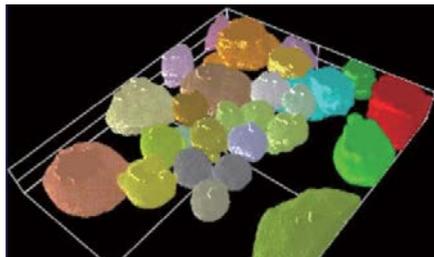
Spheroids



Nuclei



Organelle (Autophagosome)



## Intuitive User Interface Reduces Your Analysis Time

All the data you need—recognition, analysis, and statistical results—are in one convenient location. The original images are paired with the quantitative data for easy validation and interpretation. The data is easily exported as a CSV or FCS file for further analysis.

### Image

Get 2D or 3D views of your samples; locate objects in 2D within an image plane or switch to 3D to explore the entire spheroid

### Graph

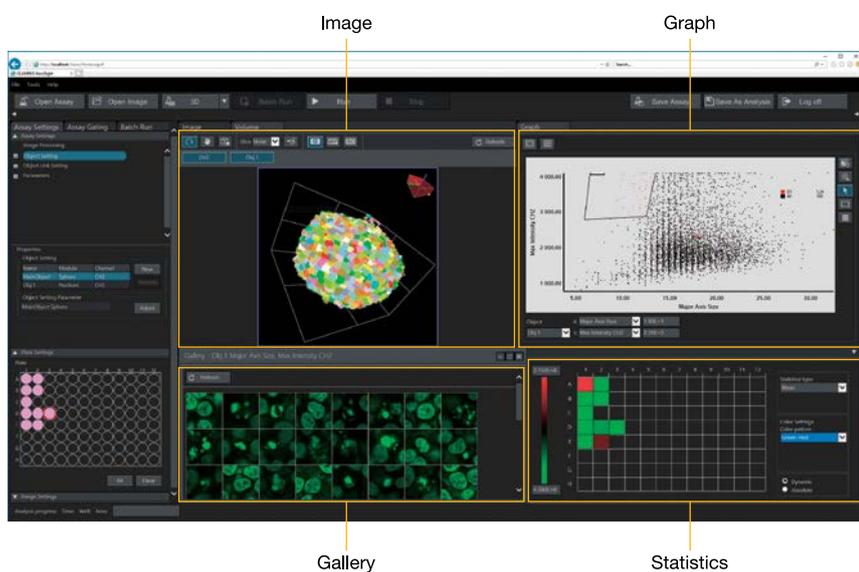
The scatter plot makes it easier to classify objects; you can click and select an individual point, which will then bring up an image of that object

### Gallery

Observe the details in each region of an object at a glance; visualize how classification is working by highlighting two areas in the scatter plot, such as morphology differences in the nuclei, and display the resulting galleries side by side

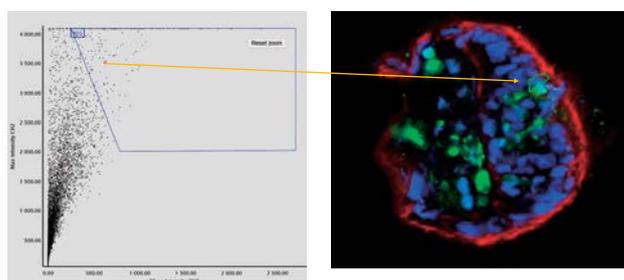
### Statistics

View quantitative results numerically or displayed on a heat map



## Data and Images Are Always Connected

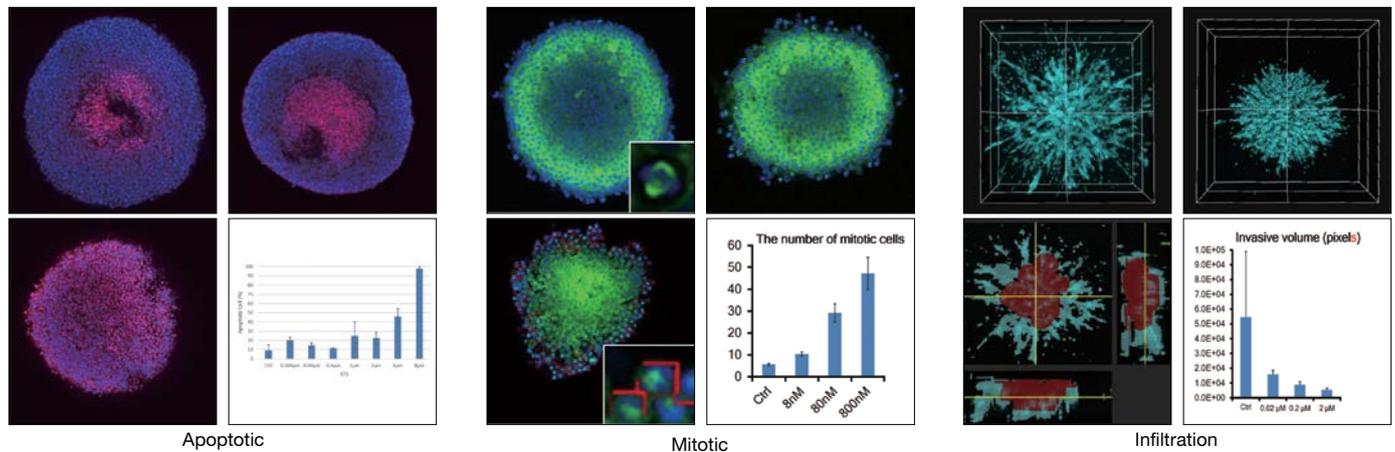
NoviSight software's accurate cell detection enables you to plot objects on a scatter plot or histogram. All the data are interactive— display your results in an image gallery, heat map, or table. Clicking a point in any of these display options shows the sample's corresponding image.



Scatter plot

## Ready-to-Use 3D Cell-Based Assays

The software comes with a variety of ready-to-use 3D cell assays. The software's analysis algorithms are made to be adjusted quickly and easily, so you can choose the best assay for your observation or design your own for advanced 3D cell analysis.



### Specifications

Image format	OIR format, VSI format
Applicable containers	Microplate :6, 12, 24, 48, 96, 384 wells
Save format	Dedicated (oxaf), FCS, and CSV
Convertible image format	TIFF
Image view	2D view (single/three sides/MIP) 3D view (isosurface/MIP/alpha blend)
Graph view	Histogram, scattergram
Analysis/statistics	Various morphological measurements, table view, gating, gallery
Options	Recognition, measurement, statistics

### Equipment required for installation and operation

PC	HP Z4G4 or successor model
CPU	Intel Xeon CPU W-2123 (3.6 GHz)
Memory	64 GB or more
HDD space	2 TB or more
Graphics board	1920 × 1080 monitor resolution with a 32-bit-video card
Drive	DVD-ROM drive
OS	Microsoft Windows 10 Pro for workstations, 64-bit English
.Net framework	.NET framework 4.7.0 or later (with Windows 10, as this is pre-installed, it is not necessary to install it with Installer)
Web browser	Internet Explorer 11
Monitor	22 inch (55.9 cm)
Network cable	Cable applicable to 10GBASE-T

Some photos provided courtesy of Lawrence J. Ellison Institute for Transformative Medicine of USC

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