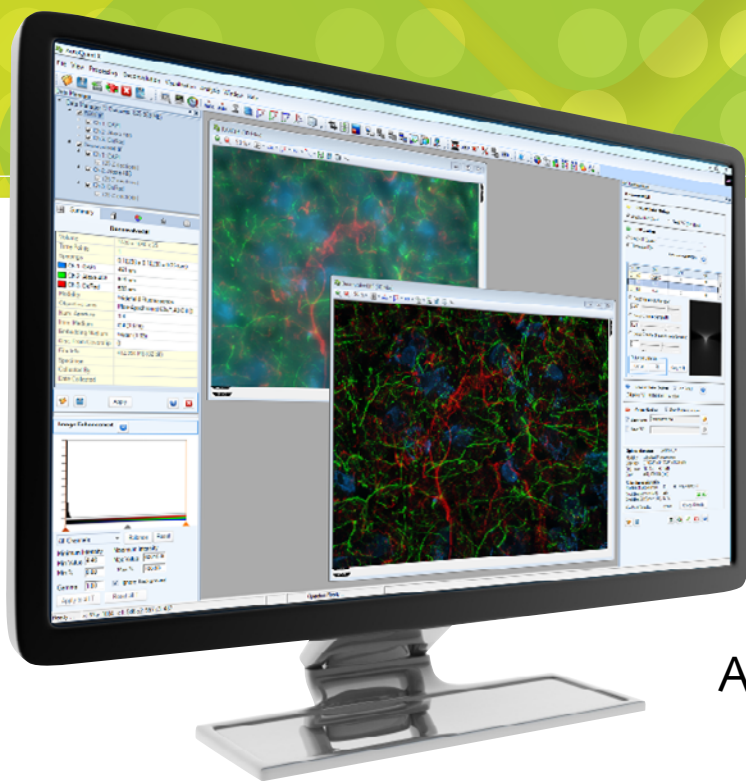




**MediaCybernetics**  
From Images to Answers®

IMAGING SOFTWARE



# AutoQuant X3

Advanced Image Deconvolution  
and Visualization Software

# AutoQuant X3

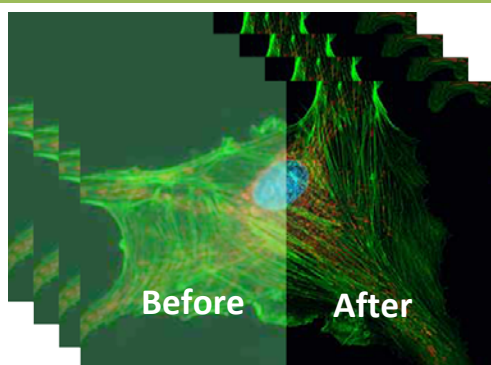
## ADVANCED DECONVOLUTION TECHNOLOGY

### Restore Your Datasets' Vital Details

AutoQuant is the life science industry's leading image deconvolution software. Retrieve better data from your images using the most complete suite of 2D and 3D restoration algorithms available, including the industry's best blind deconvolution algorithm. Microscopy experts worldwide trust AutoQuant for the accuracy and beauty of its stunning quantitative results, while newcomers to the product love the user-friendly workflow and intuitive interface that helps make learning a breeze.

## EXTENSIVE ALGORITHM SELECTION

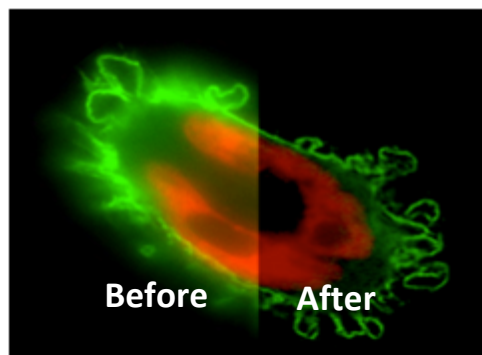
### 3D Deconvolution



**Blind** Adaptive Point Spread Function (PSF)  
Entire Volume + Channels + Time  
Constrained Iterative  
Noise Reduction

**Non-Blind** Fixed Point Spread Function (PSF)  
Entire Volume + Channels + Time  
Constrained Iterative  
Noise Reduction

### 2D Deconvolution



**Blind** Adaptive Point Spread Function (PSF)  
Single Plane + Channels + Time  
Constrained Iterative  
Noise Reduction

**Non-Blind** Fixed Point Spread Function (PSF)  
Single Plane + Channels + Time  
Constrained Iterative  
Noise Reduction

Features	Benefits
Intuitive Four-Step Process	AutoQuant is truly the most intuitive deconvolution software in the industry, using a simple yet elegant workflow to direct any user through the necessary steps to achieve repeatable image restoration.
Microscopy Modalities	Work with all widefield, brightfield, spinning disk & laser scan confocal, multi-photon, Light Sheet, STED, Structured Illumination image sets and more.
PSF Refinement	Create an optimal PSF iteratively derived from an entire volume of beads with just a single click.
PSF Modeling Algorithms	The newest Gibson & Lanni modeling algorithms refine your theoretical PSF for stunning results.
Automatic SA Correction	Tune your optical system's unique theoretical PSF with spherical aberration detection and correction.
Multi-Time/Channel Support	Load, view, and control multiple channels and timepoints to create vibrant multidimensional results.

# DECONVOLUTION TOOLS



ROI deconvolution preview quickly tests for optimal settings



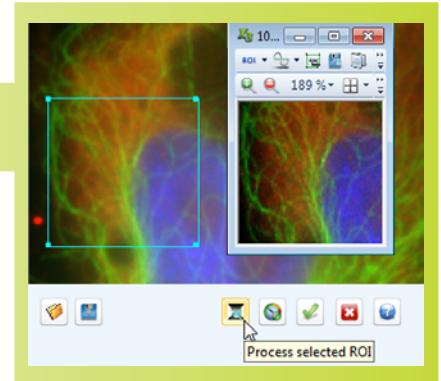
Save optical parameters and deconvolution settings



Batch-process your image sets sequentially in an instant or on a timer  
**\*New\*** Quickly load and configure hundreds of image sets for batch without waiting for all frames to load



Spacing calculator computes the optimal XY and Z optical spacing



# IMAGE CORRECTION



Stabilize your sample using:

- Slice-to-slice alignment
- Channel-to-channel alignment



Advanced cropping and reshaping



Image correction tools for photobleaching, attenuation, optical density variability, and many other imaging problems



# VISUALIZATION



View 5D datasets (X, Y, Z, time, and channel)



Display multiple viewers simultaneously



Multiple volume projection modes (max, min, and sum projections)



Slicer view compares XY, YZ, XZ, ortho, and oblique slice views



Surface-render objects to measure individual volumes



Synchronize multiple viewers for easy comparison



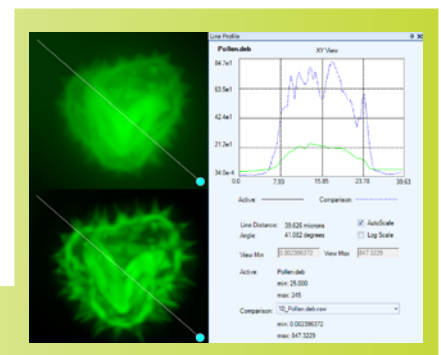
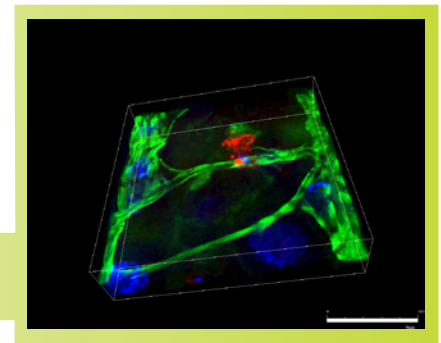
Movie Maker and Save to AVI Movie for easy sharing of results



Individual channel controls for brightness, contrast, and gamma



Sync multiple line profiles and measurements to facilitate comparison



# SYSTEM REQUIREMENTS

## Recommended Requirements

- **Processor:** 2.8 GHz Intel® quad-core 64-bit processor (Core™ i7 series) or better
- **RAM:** 16 GB memory or higher
- **Free disk space:** 2 GB on installation drive plus dedicated data drive (500 GB or higher)
- **OS:** Windows 7 (64 bits)
- **Graphics card:** NVIDIA® GeForce® GTX™ series (2 GB and Open GL® 4.2 or higher)

## High Performance Requirements

- **Processor:** 3.0 GHz Intel quad-core 64-bit processor or dual Intel quad-core 64-bit processor
- **RAM:** 48 GB memory or higher
- **Free disk space:** 2 GB on installation drive plus one or more dedicated SATA 6 Gb/s data drives (2 TB or higher)
- **OS:** Windows 7 (64 bits)
- **Graphics card:** NVIDIA GeForce GTX series (2 GB and Open GL 4.2 or higher)

# SUPPORTED FILE FORMATS

Description	Extension(s)	Write	Read
AutoQuant X Dataset	*.xml		X
Legacy AutoQuant Dataset	*.aqh		X
TIFF Image	*.tif, *.tiff	X	X
Raw Binary Data File	*.raw, *.deb, *.avz	X	X
Microsoft Windows Bitmap	*.bmp	X	X
Image-Pro® Sequence	*.seq	X	X
Image Cytometry Standard	*.ics, *.ids	X	X
Bio-Rad® PIC	*.pic	X	X
Bitplane® Imaris®	*.ims3 and *.ims5	X	X
Leica® LEI	*.lei		X
Leica LIF	*.lif		X
Olympus® FluoView® FV1000	*.oif, *.oib	X	X
Carl Zeiss® AxioVision® ZVI	*.zvi		X
Carl Zeiss LSM	*.lsm	X	X
Carl Zeiss CZI	*.czi		X
Nikon® NIS-Elements	*.nd2		X
Scanalytics IPLab™	*.ipl, *.iplab	X	X
Molecular Devices® MetaMorph®	*.stk	X	X
Molecular Devices MetaMorph	*.nd		X

Please check our website  
[www.autoquant.com](http://www.autoquant.com)  
as we add new file  
formats regularly.

Specifications are subject to change. Please contact Media Cybernetics or your local reseller for the latest features.

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