



MicroBrightField, Inc.

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To whom it may concern,

This letter serves as a sole source justification for the purchase of a Neurolucida 360 Studio system.

The Neurolucida 360 Studio system is a comprehensive and unique system for 3D neuron reconstruction and analysis. The system has been custom configured to meet your needs and includes the following capabilities:

Built in tools for detection and automatic reconstruction of:

- Dendrites
- Somas
- Dendritic Spines
- Synapses
- Varicosities

Real-time interactive 3D visualization:

- Visualize large, complex 3D images (including multi-channel images) and reconstructions
- 2D and 3D image data from two-photon, confocal, brightfield or light sheet microscopy
- 3D volume, image slicing and simultaneous views
- Multiple projections: XY, YZ, XZ, alpha, minimum, and maximum
- Transparency, rendering (wireframe, centerline, surface, texture) and other display options for images and traces that can adjusted on the fly
- Create dynamic movies
- Export options including exporting 3D graphics to third-party applications
- Load complex surfaces in seconds
- Works with the most advanced "gaming class" graphics cards to deliver high performance at an affordable price

Can be used with all types of microscopy images including:

- Brightfield
- Confocal
- Light sheet (cleared tissue)
- Expansion microscopy
- Micro-CT
- Two-photon
- Multi-channel fluorescence

Includes tools to:

- Detach or Connect or Move dendrite/axon branch segments
- Adjust dendrite /axon diameters
- Move location of individual axon/dendrite point in X, Y and Z
- Change dendritic spines by splitting, merging or reclassifying

Also includes comprehensive analysis for:

- Structure
- Distribution
- Orientation
- Colocalization

MBF Bioscience is the sole source for Neurolucida 360 Studio systems in North America. We only sell directly to our customers and do not use any third part dealers, resellers or distributors.

If you have any questions or need any clarification, please contact me at 802-288-9290 or by email at mark@mbfbioscience.com

Best Regards,



Mark Barton
Director of Sales and Marketing
MBF Bioscience