



NeuroLucida 360

Release Notes

Version 2019.1.1 (1/23/2019)

NEW FEATURES AND ENHANCEMENTS

NeuroLucida 360 3D environment

- 3D contour drawing added
- 3D marker placement added
- 3D contour editing: Added button to reset all selected contours/shells back to Line mode display.
- 3D editing: Nodes and points now distinguishable by color
- 3D tracing: End point of a trace changes color when targeted with user-guided

NeuroLucida 360 overall

- Automatic cell detection workflow added to speed up detection process.
- Completely redesigned Preferences panels with a handy search functionality
- SVG Export: Scalebar color and placement controls; new EMF detail slider.
- Huron support: Huron jpeg files, definition for Huron file extension, support for Huron TIFF images
- Sections: Display warning message when user attempts to change sections while moving to the next section.
- LVR: Added to Quick Launch

ISSUES RESOLVED

NeuroLucida 360 3D environment

- 3D automatic tracing: Could only be implemented once with multichannel image
- 3D editing: Edit button in 3D didn't show any text; only possible to highlight/select one point at a time in Points editing; Hide Selection in Points mode only temporarily hid selected tree; marquee selection no longer implemented after deleting node
- 3D contour editing: Marquee selection wasn't working in Points mode and caused crash; displayed Marker panel instead of Contour panel when clicking Edit button; changing contour appearance was not reflected in selected contour; contour shell could not be built; the surface was not being updated when switching to Points mode; color change and transparency were not applied; Points mode crashed or didn't move the correct point for circle and freeform contours; couldn't edit points in circular contour
- 3D marker: Marker sizing UI issue; micrometers resizing didn't work
- 3D movies: Zooming didn't work when using perspective projection
- 3D image: Rounding error with partial projection thickness; changes to the partial projection thickness and position could not be applied using the Enter key; crash when using marquee select
- 3D synapse: Crash following synapse detection; unable to select synapse after removing other synapses and changing color; synapse transparency not implemented correctly; smoothing not implemented correctly; user-guided tracing not implemented correctly after removing synapses
- 3D soma: Detection failed in some CZI images; detection caused crash; detection failed with multichannel image
- 3D varicosity editing: Smoothing not implemented

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- LVR: Acquisition area doesn't change size in Macro View
- Batch tracing: Not working on some files



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- Tracing: 3D display update issue when point adjacent to node moved in 2D; issue toggling between 2D continuous tracing and 3D user-guided tracing when connecting branches in 2D
- Somas: Markers attached to 'soma contours' were not displayed in 3D 159367493; crash upon using CTRL-Z after tracing soma in 2D
- Preferences: Crash when trying to access Preferences
- Depth filter: Asymmetrical depth filter was removed from program, now available from Orthogonal View.
- Orthogonal view: Go Here operation changed to move to the nearest bitmap instead of Z value user clicked on.
- Export: Images misaligned in exports; when tracing outside of the export area was still visible, open contours have sharp edges.
- 2D-3D synching: Color by Branch Order 2D didn't reflect 3D; 2D and 3D thicknesses not consistent after changing thickness; when moving the point near a node in 2D, the surface in 3D wasn't built correctly.
- Image scaling: Sometimes incorrect scaling resulting from dragging multiple image files into the application
- Images: Various problems processing large jpeg2000 files
- Markers: Didn't resize with micron sizing selected
- Contours: Circle contours could not be placed in a section; crash when splicing contours while the Contour Measurements window was open; Meander Scan didn't display right-click menu options with square or circle contours.
- Sections: Issue with Modify Section dialog where changes to current section checkboxes persisted despite cancellation.
- Files: Removed caliber .DAT from image format list; removed .fpx from Image open drop-down; text-based codestream comments in J2K files were not readable as text with KDU library -> now you can use a Hex Editor: simply search for "Compression" and change the Hex byte directly before it from 00 to 01.