



# NeuroLucida® Explorer software

## Release Notes

### Version 2025.1.1 (January 2025)

#### LICENSING UPDATE

- Update to offline software licensing. NeuroLucida Explorer software requires reactivation on systems that do not have access to the internet. [Instructions for offline software activation](#) are included in the NeuroLucida Explorer user guide.

#### NEW FEATURES AND ENHANCEMENTS

- Nearest neighbor analysis updated to report on puncta in all color channels
- Added a new option to save all results to a single Excel file
- Somas were added to the puncta colocalization analysis
- Closed surface analyses can now be conducted with more structures, including spines and varicosities

### Version 2024.1.1 (January 2024)

#### NEW FEATURES AND ENHANCEMENTS

- An alert is now displayed when a file name exceeds the 30-character limit
- The recent file list now updates during NeuroLucida Explorer sessions
- The results tables have been updated throughout to enhance clarity and usability
- New ability to set the interval for the Tree Interval analysis
- Data files that include results from using the Detect Orientation tool now display orientation arrows. The vector coordinates and eigenvalues are also now included in the Fiber Orientation analysis report.
- Convex Hull report now includes the Feret min and max

#### ISSUES RESOLVED

- Fixed an issue with a set property
- Fixed an issue with renaming multiple files with name conflicts
- Scale bar display fixed
- Soma ID updates when included in the puncta distance to additional structures analysis
- Printing will respect background color
- Fixed 3D scale bar bounding box display issue
- Resolved issue in dendritic spines analysis
- Fixed issue with 3D contour summary report
- Fixed issue that could cause a slow down generating reports in Batch analysis

## Version 2023.1.1 (July 2023)

### NEW FEATURES AND ENHANCEMENTS

- New analyses added:
  - Fractal Analysis
  - Vessel Analyses
  - Fiber Orientation Analysis
- The Spine Details report can now include the Segment ID
- The Sholl analysis can now report the number of puncta, puncta volume and surface area
- Puncta Distance from Additional Structures report can now include the spine-type information
- New Terminal Spine Density analysis added
- Puncta are now highlighted when selected
- Polar histogram, fan in, and dendrogram analyses were added to batch analysis
- Set scaling feature was returned to the View ribbon

### ISSUES RESOLVED

- Fixed issue working with sets in Batch export
- Fixes and improvements to the Batch export
- Fixes and improvements to the Print feature
- Resolved issue with calculating contours in closed contours
- Preference changes to the angle measurement will update immediately
- Fixed issue with Closed Surface analysis working with the Batch export
- Puncta Distance to Additional Structures will report soma names
- The bounding box will stay displayed during a rotation
- Fixed issue with displaying the 2D scalebar
- Resolved issue with marker shape during vector export
- Fixed video memory and recent file display refresh issue