Neurolucida®

Release Notes

Version 2024.1.2 (June 2024)

NEW FEATURES AND ENHANCEMENTS

- New auto-calibration feature offers hands-free correction for camera rotation and establishes lens calibration
- New Scan Repair for continuing incomplete slide scans and replacing problematic image tiles
- Added the ability to Live Zoom or zoom in on the live-camera feed
- Slide scanning workflow now includes the option to employ "Stitching" for improved alignment of adjacent images
- Added new vessel tracing tools
- Added the ability to conduct Parcentric Parfocal calibration of just a single objective
- Slide Scanning added a new filter for background subtraction
- New ability to set the rotation angle in 3D view
- Biolucida integration
  - New image browser
  - Improved Biolucida connection interface
- Added support for the new MBF Bioscience Vesalius Spinning disk confocal structured illumination device
- Added support for Aura Light source and the 89 North LDI
- Can now save a file containing a single color channel from a multi-color channel image
- Added support for 12-bit OME-TIFF files

ISSUES RESOLVED

- Fixed problems with embedding scalebars in large images
- Slide Scanning: fixed failure event that occurred with certain file extensions
- Fixed an issue with creating a new lens from the scaling of an image
- Scaling information is now required when opening images
- Image adjustments now reflected in projection images
- Fixed issue with Ludl Mac6000 stage controllers
- Fix issue with square contours
- Fixed issue with loading image at original Z position
- Fixed issue with properly updating color swatches in the multi-channel setup dialog
- Fixed the potential loss of registration between tracing and slide when vibration is present during Slide Scanning Workflow
- Fixed issue with image organizer improperly displaying Y and Z information
- Smart optimization is no longer on by default; it can be accessed in Image Preferences

- Fixed issue with older MBF TIFF files
- Improved support for the Photometrics/BSI camera
- Synapse Markers not placed if varicosity required on axon is checked
- Fix issue with offline licensing continuing to ask for license code

Version 2023.2.3 (October 2023)

ISSUES RESOLVED

- Fixed issue with commands from new Ludl Mac6000 stage controllers and typically mismatch errors
- Fixed an issue with incorrectly displaying modules
- Fixed startup crash issue
- Fixed issue with Hamamatsu revive timing
- Fixed issue with Image Adjustment

Version 2023.2.1 (June 2023)

NEW FEATURES AND ENHANCEMENTS

- Added support for embedding a scalebar in images

ISSUES RESOLVED

- Fixed an issue with stitching in slide scanning
- Fixed issues with licensing (modules and offline)
- Fixed issue with Celestas

Version 2023.1.2 (April 2023)

NEW FEATURES AND ENHANCEMENTS

- Added support for Leica K5 and K3C cameras'
- Decimal points can now be entered during setup in the Slide Scanning workflow
- Smart optimization feature is off by default

ISSUES RESOLVED

Numerous bug fixes throughout the software. These include:

- 2D Slide Scanning licensing no longer requires the Image Stack Module
- Resolved an issue that could cause the program to lose registration if the stage is moved in certain steps of some workflows: including the "Define focus map" step of the Slide scanning workflow
- Removed Lightsheet option from Hamamatsu camera settings
- Issue with associating lenses to objectives when connected to a Leica X,Y stage is fixed
- Fixed a problem that could cause a crash when trying to configure a Leica microscope when it is already connected to the scope via a Leica X,Y stage
- Fixed the issue that can cause a crash if displaying status for Microscope when you are connected to a Zeiss Axioplan
- Fixed multiple problems with the enabling and disabling the Preview options after slide scan acquires
- Resolved a crash when opening a modal window of the exposure dialog bar in the background correction step of the Slide Scanning Workflow
- Ortho View now displays the arrow object correctly when using the depth filter
- Image scaling changes are applied correctly when opening images
- Resolved thumbnail generation issue

Version 2022.3.1 (December 2022)

NEW FEATURES AND ENHANCEMENTS

- New *Batch Pipeline* enables easy-to-use batch processing for image filtering of neuronal structures
- New *Pipelines* ribbon now houses features previously located in the *Automatic* section of the *Trace* Ribbon
- Improved & expanded image support
- New automatic, smart image-optimization preference for low-signal images available
- New display adjustment for visualizing varicosities
- The subvolume tool is now restricted by the bounds of the image
- In the Cell detection workflow, the image source is automatically updated based on the image modality selected
- Image montage can now assemble images of varying x/y sizes

ISSUES RESOLVED

Numerous bug fixes throughout the software. These include:

- Fixed options for saving the current plane
- Fix a problem where software would hang when acquiring any image with Microfire cameras
- Fix for crash when acquiring images with Apotome

- Fixed a crash that happens when you try to bring up a modal version of the exposure dialog bar from a background correction step in the Slide Scanning workflow
- Fixed a problem with Slide Scan when doing a post-compile with preview and stitching options selected. The final compiled image would end up in the directory with the tile stacks instead of the specified directory
- Fixed a crash that could occur on rare occasions during slide scanning workflows
- Fixed a problem that can cause a crash in image organizer when an image is open, the More Info page has not been displayed and the stage gets moved
- Fixed crash when repeatedly toggling varicosity ball and solid surface