



Version 2026.1.1 (April 2026)

NEW FEATURES AND ENHANCEMENTS

User interface & control enhancements

Software Joystick updates

- **Step-size reporting:** Sliders for moving the stage in X, Y, and Z now report step sizes in μm
- **Visual icons:** Icons now better reflect the multiplicity of stage-movement options and how far the stage will move when clicking different controls.

Light Sheet Offset control using the mouse wheel

- Place the cursor in the open box for controlling the light sheet Offset, then scroll the mouse wheel to change the offset value.
- Hold the **Shift** key while scrolling to adjust the offset value by 10 instead of by 1. This functionality is active only while the dialog box has focus.

Keyboard shortcuts to enable right and left light sheet illumination

- **Z:** Toggle "Enable Left" light sheet illumination
- **X:** Toggle "Enable Right" light sheet illumination

SLICE Light Sheet control interface modes

A new **Advanced** checkbox enables you to toggle between normal and advanced modes:

- **General:** Simplified view of the *Left and Right Sheet Controls* in the *SLICE Light Sheet* panel that includes just the commonly used **Offset** section.
- **Advanced:** Check the **Advanced** box to display the full set of *Left and Right Sheet Controls: Offset, Height, Center, and Duty.*

Light Sheet Alignment Baseline Settings:

- New button in the *SLICE Light Sheet* panel that, when clicked, sets the light sheet **Offset** values to the current light sheet alignment settings.
- Added the ability to save an "Adjusted" light sheet alignment parameter set and/or to restore previous or saved settings specified in the *Left and Right Sheet Controls.*

Image processing

- **OME Tiff:** Added support for saving image datasets acquired using the Tissue Scan Workflow in OME-Tiff format.
- **Re-stitching:** You can now re-stitch acquired image tiles without having to manually delete the *AssemblyComplete.txt* file.
- **Tone Mapping Filter:** A new Tone Mapping image filter is now available in the image filter dropdown menu on the *Image* ribbon.

Movie enhancements

- **Channel Picker:** Choose color-channel displays on a per-clip basis
- **Export Resolution:** Two new export-resolution modes have been added to enable you to create higher resolution movie outputs in some cases.

- **High Quality Export:** Exports the highest possible image quality based on available GPU memory.
- **Max Quality Export:** Attempts to use more than 100% of available GPU memory to export the maximum attainable video resolution.
- **Flight Mode:** The new (experimental/beta) Flight Mode enables you to create movies that show your results with flair and precision.
- **Movie Progress Reporting:** Progress bars have been added for image loading and video export.

Data & file management

- **Metadata:** SLICE-specific metadata is now included in image files and collected in a dedicated text document within the image-acquisition folder.
- **Disk Storage:** The system now checks for available space on remote drives before starting image acquisition using the Tissue Scan workflow.

ISSUES RESOLVED

- **Image acquisition performance:** The live image no longer updates while images are acquired using the Tissue Scan workflow; previously, this slowed down image acquisition.
- **Macro View and Ortho View persistence:** Fixed a bug that caused Macro View and Ortho View windows to close between sessions.

Version 2025.2.2 (October 2025)

- Fixed an issue with access to controls for adding points to the X, Y, Z Refractive Index Compensation Map during the acquisition setup.

Version 2025.2.1 (September 2025)

NEW FEATURES AND ENHANCEMENTS

- The SLICE Alignment workflow was added to guide users through the light sheet alignment process.
- There is a new option in the Tissue Scan Workflow to change the image resolution when saving the final image. This is useful for downsampling images.
- New improvements to save a 3D sub volume image stack feature.
- Selected Software lens is now configurable to automatically change when the camera binning mode is changed.
- Image Stitcher (formerly Image Compiler) and Advanced Stitching (formerly Stitching) have been renamed for clarity. Use the Image Stitcher for post-processing image tiles acquired in Tissue Scans.
- Additional SLICE metadata has been added to the AcquisitionSettings.txt file.
- Buttons for *Emission* control in the UI are now labeled as *Excitation*.
- Dozens of performance and stability improvements.

ISSUES RESOLVED

Multiple minor changes to BrightSLICE have been implemented to bolster software stability and improve performance.