BrightSLICE™ software

Release Notes

Version 2026.2.1 (September 2026)

New Features and Enhancements

- Acquisition rate increased by more than 2x in some modes
- Enhanced *3D scale bar* added to the *3D Visualization* window
- *Image histogram* now updates when previewing image filters
- Improved *Image Filters* interface enables running selected filters sequentially
- New *Outside Eraser* filter removes external contaminants and noise in the media from the image
- New *Destriping* filter removes the stripe pattern along the illumination axis created by structures in the light path that absorb or scatter light
- New camera cooling controls added to *Camera settings*
- New camera correction for hot pixels added to the *Tissue Scan Workflow* and *Camera settings*
- Improved *Snapshot* settings, including resolution and quality, in the *3D Visualization* window
- Legend display added for *Color maps* in the *3D Visualization* window
- Updated selection interface for *Static* and *Depth Color maps*
- Updated *Movies* interface

Issues Resolved

- Fixed a possible issue when previewing a sample acquire

Version 2026.1.2 (June 2026)

Issues Resolved

- Fixed an issue that occurred when selecting a display channel in movie mode
- Resolved an issue with flatfield correction in conjunction with advanced stitching

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.