SLICE: The New Standard in Light Sheet Microscopy

Breakthrough Imaging. Accessible Power. Unprecedented Value

Move beyond expensive legacy light sheet microscopes, discover SLICE

A groundbreaking, cost-effective solution for high-resolution 3D imaging. Developed in collaboration with leading researchers at Columbia University, SLICE is engineered to bring advanced light sheet microscopy to labs of all sizes.

The SLICE Advantage: Performance That Redefines Value

Superior Image Quality: Our pioneering optical design delivers clearer, higher-resolution images with less aberration and increased signal-to-noise than many legacy light sheet microscopes. This innovation was recognized with the Microscopy Today Innovation Award, a testament to our commitment to engineering excellence.

True Cost-Effectiveness: The SLICE system delivers unparalleled performance and value, providing a complete solution without the high costs associated with traditional light sheet systems.

Get to Science Faster: A streamlined, user-friendly interface that reduces the learning curve for staff and users, maximizing productivity.

The Complete SLICE System: Under $75,000
Everything You Need

Includes the microscope, computer, and integrated BrightSLICE software.

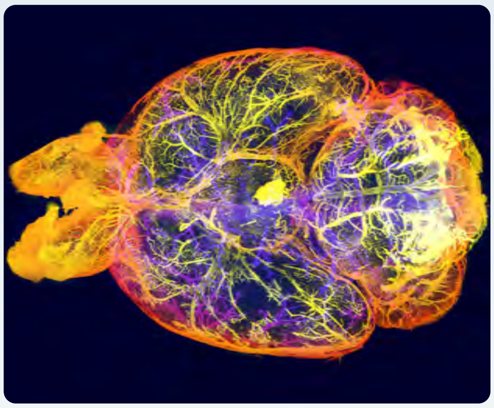
SLICE: The New Standard in Light Sheet Microscopy

Breakthrough Imaging. Accessible Power. Unprecedented Value

Versatile Scientific Applications

SLICE's performance and accessibility make it the ideal tool for a wide range of high-impact research areas, including:

- Whole-brain imaging and mapping
- Vascular system imaging
- Neurodegenerative disease research
- Developmental biology studies
- General biological research requiring 3D imaging



Sample and Mounting Adaptability

The SLICE system is designed for maximum flexibility, enabling it to seamlessly integrate into your existing workflows without physical changes to the microscope.

Our quick-mount cuvettes and wide sample scanning area accommodate a variety of sample types, including whole mouse brains, human brain samples, and organoids.

Universal Clearing Compatibility

Use any clearing method (e.g., iDISCO, CLARITY, SHANEL, CUBIC, BINAREE, etc.) and associated immersion media.

Unlike other systems, SLICE's real time refractive index correction is completely automatic, requiring no manual adjustments.

Technical Specifications

- **Lateral Resolution:** ~0.75µm (with 10x objective)
- **Axial Resolution:** 5µm - 8µm at light sheet waist
- **Imaging Speed:** Up to 17 frames per second
- **Excitation Lasers:** 3 Excitation Lasers (455nm), (520nm), (640nm)
- **System Dimensions:** L 457mm x W 368mm x H 304mm (Compact Benchtop Design)
- **Software:** BrightSLICE for acquisition, 3D visualization, stitching, flat field correction, tone mapping and de-striping

Contact us today to learn more about SLICE or to schedule a demonstration

Learn More

mbfbioscience.com | 1-802-288-9290 | info@mbfbioscience.com