

InVi-SPIM

X LUXENDO
the light-sheet company

InVi-SPIM OVERVIEW

Dedicated to live imaging, the Luxendo InVi-SPIM is a microscope that is optimized for long-term 3D fluorescence imaging of living specimens. Easy access to the sample chamber, maximized photon efficiency, and short illumination times, enable long-term imaging under ideal environmental conditions.

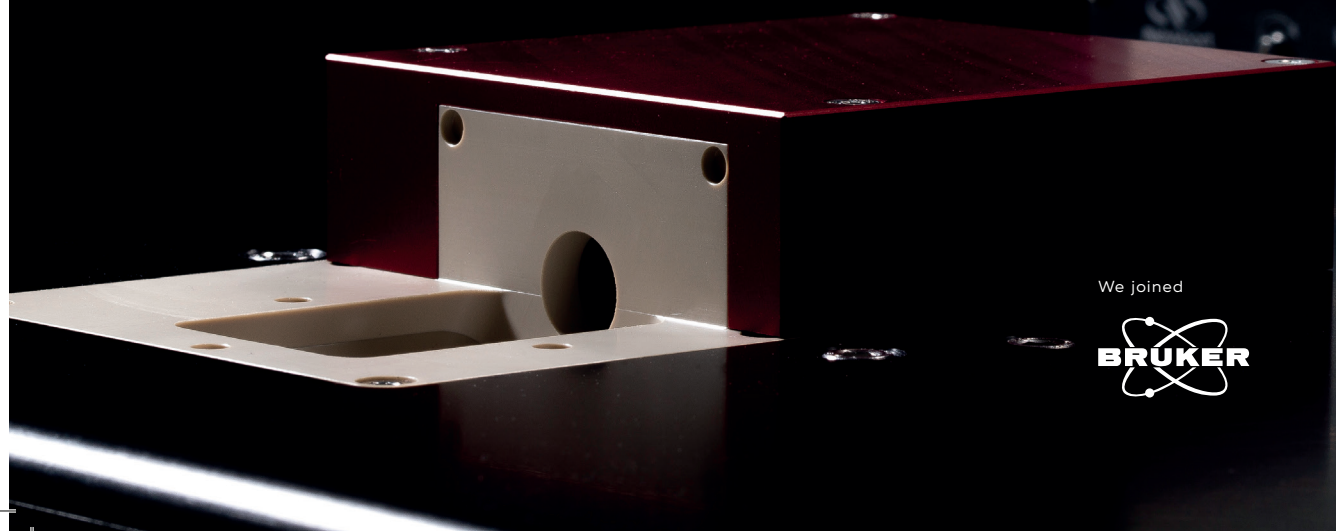
The optical performance combined with the fast acquisition speed of the InVi-SPIM generates perfect image data for:

- › 3D reconstruction
- › 5D/6D analysis
- › Tracking of cellular and subcellular positions and events
- › Morphological analysis

The InVi-SPIM is perfectly suited for *in toto* imaging of a huge variety of specimens, especially if they are sensitive, or need precisely controlled conditions. The application spectrum includes:

- › Small animal and embryo models
- › Imaging of dynamic processes in mammalian cell culture models
- › Live imaging of intact and living plant models

An entire world of new applications is about to be discovered, come and explore with us!



We joined



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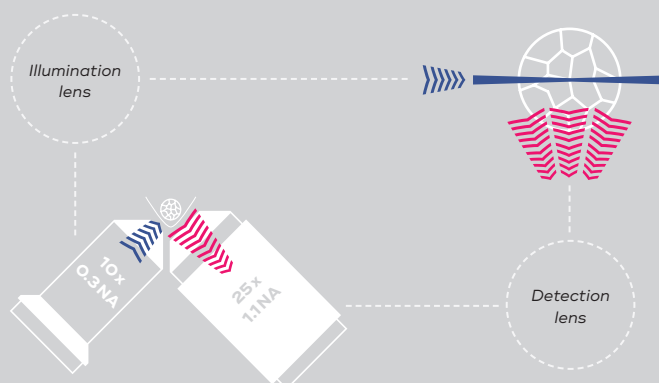
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SPECIFICATIONS

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INVERTED

- > Inverted microscope configuration
- > Easy access to the sample chamber
- > Sample medium separated from immersion medium
- > **Illumination objective: 10x @ 0.3NA**, water immersion
- > **Detection objective: 25x @ 1.1NA**, water immersion



FAST

Imaging with highly sensitive sCMOS cameras

- > 140 fps @ 512 x 2048 px
- > 125 fps @ 1024 x 2048 px
- > 75 fps @ 2048 x 2048 px



FLEXIBLE

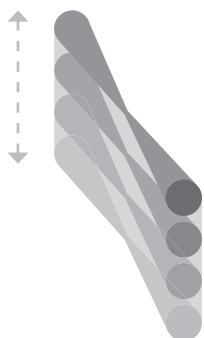
- > **Customizable laser combiner, up to 6 positions:**
445/488/515/532/561/594/642/685 nm
@ 50 mW
- > Simultaneous 2 channel recording
- > Fast 10 position filter wheel
- > **Customizable and easily changeable sample carrier**



SCANNED

Scanned light sheet

- > Adjustable light-sheet thickness:
2–8 μm
- > Flexible light-sheet area
- > Robust aberration tolerance
even in complex samples
- > Line illumination for improved
background suppression



CONTROLLED

- > **Small sample medium volume**
- > Accurate control of temperature
and atmosphere
- > Easy sample accessibility
- > Compatible with photoactivation,
photoablation etc.



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