InVi-SPIM

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.

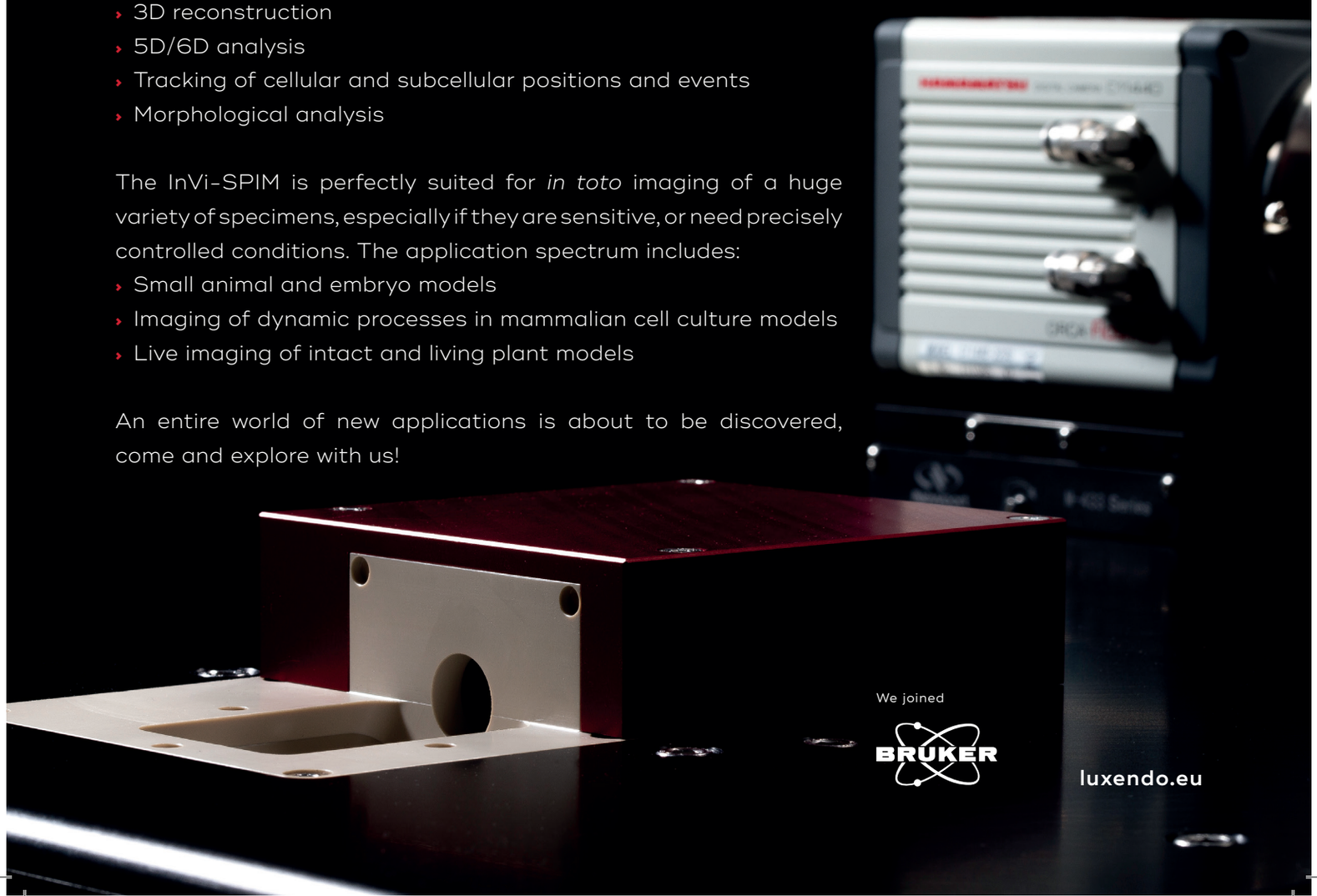
The optical performance combined with the fast acquisition speed of the InVi-SPIM generates perfect image data for:

- 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
BRUKER

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InVi-SPIM
SPECIFICATIONS

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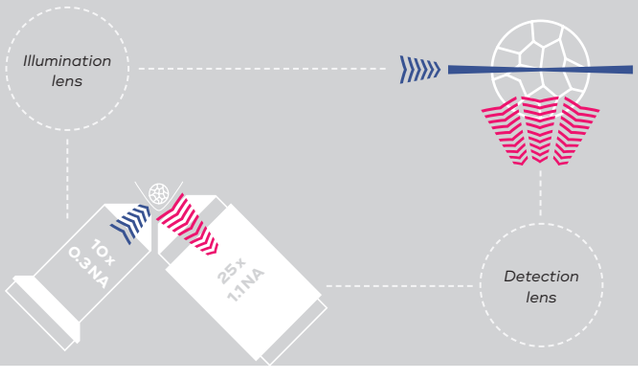
INVERTED

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

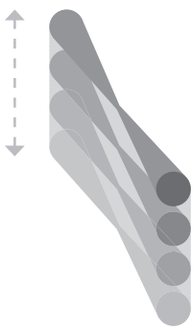
FLEXIBLE

- **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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