LUXENDO
A BRUKER COMPANY

# **QuVi** SPIM
## PURE LIVE IMAGING

### **QuVi** SPIM – THE UPRIGHT LIGHT-SHEET MICROSCOPE

The **QuVi** SPIM is a highly versatile upright light-sheet microscope for 3D imaging of living, fixed and cleared samples. Based on our robust, stable system platform, it combines dual-view acquisition with high precision, long travel range stages. The **QuVi** SPIM is optimized for long-term, high-throughput imaging at subcellular isotropic resolution. It features an easy sample mounting and an intuitive software and hardware concept.

- **High-throughput acquisition of large sample numbers for quantitative analyses**
- **Stable, long-term inaging of 3D cell culture models (spheroids, organoids)**
- **Live imaging of (sub-)cellular processes at high spatio-temporal resolution**
- ***In toto* imaging of large cleared samples**

By means of its flexible optical concept, modular sample mounting and closed design, the **QuVi** SPIM...

- **enables fast changing between live and cleared samples**
- **generates image data for quantitative analysis of biological features and processes**
- **offers full and stable environmental control**
- **is a laser safety Class 1 bench-top system**

Join us on our journey to a fascinating world of new applications – come and explore it with us!

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# QuVi SPIM
## SPECIFICATIONS

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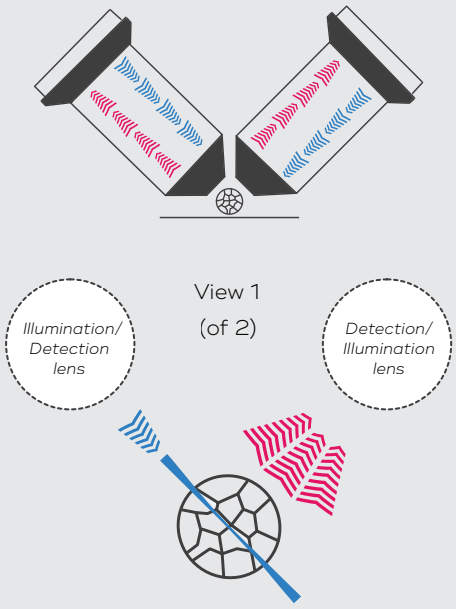
## UPRIGHT, DUAL VIEW, DUAL COLOR

- Upright microscope configuration
- Symmetric orthogonal dual views

- Two optical configurations available:
  Simultaneous dual-color detection with sequential dual-view acquisition
  Or:
  Simultaneous dual-view acquisition with sequential multi-color detection

- Objectives:
  40X @ 0.8 NA water immersion for live samples (2x)
  Or:
  16X @ 0.4 NA multi-immersion for live and cleared samples (2x)

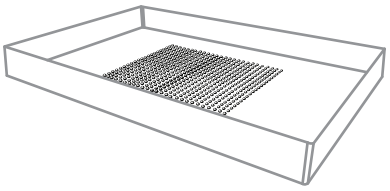



## MODULAR AND FLEXIBLE

- Easy switching between live, fixed and cleared sample imaging
- Sample mounting in SBS plate format from one-well plates to personalized design
- Quick load feature for easy sample accessibility
- Low magnification views for easy sample navigation even in complex samples
- Up to 6 laser lines, selectable from 405 / 445 / 488 / 515 / 561 / 594 / 640 / 685 / 785 nm
- Two filter wheels with 10 filter positions each

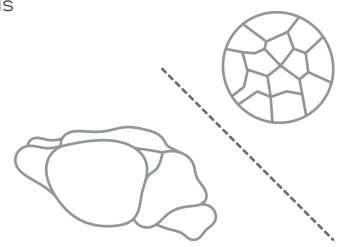
## LIVE AND HIGH-THROUGHPUT IMAGING

- Large sample mounting area (50 mm x 50 mm)
- Hundreds of samples @ the same condition – screening-ready
- High-precision, high-speed stage
- Stable environment control with gradient-free heating
- Long-term imaging of live 3D cell culture models with minimal phototoxic effects



## LIVE AND CLEARED SAMPLES

- Live and fixed 2D and 3D cell culture models
- (Epi-)genomics and transcriptomics screening
- Drug end-point analysis
- Cleared entire organs
- Cleared brain tissue
- Cleared organoids
- Fixed tissue slices



## VERSATILE IMAGING

- Adjustable light-sheet thickness: 2-12 µm
- Scanned light-sheet for flexible field of views up to 800 µm x 800 µm
- Stack size up to 50 mm
- Robust aberration correction even in complex samples
- Line illumination for efficient background suppression
- Acquisition speed up to 500 frames per second