

# QuVi SPIM

## PURE LIVE IMAGING

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

The **QuVi** SPIM is the latest product in Luxendo's range of light-sheet microscopes. Combining dual views with dual detection channels, it enables large-scale imaging of living samples. Its novel stage design allows using SBS-format plates and provides an easy sample accessibility by means of its quick load feature. Since the objective lenses are exchangeable, a wide variety of samples of different sizes and preparations can be imaged, such as:

- › Living, fixed and cleared brain slices
- › Long-term imaging of 3D cell culture models (spheroids, organoids, tumoroids)
- › Imaging of conventional cell culture in high throughput
- › Functional imaging (calcium)

By means of its flexible optical concept and its maximized usage of the hardware capacities, the **QuVi** SPIM

- › is designed for multiplexed and high-throughput acquisition
- › is set for biophysical methods such as FLIM and FCS
- › generates image data for multidimensional analysis of biological events and processes

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



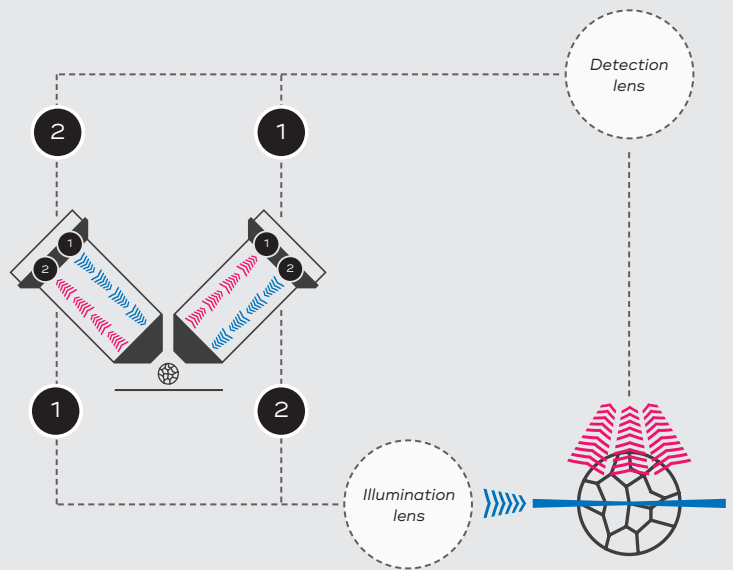
# QuVi SPIM

## SPECIFICATIONS

Luxendo GmbH  
Fluorescence Microscopy Business Unit  
Bruker Nano Surfaces Division  
Meyerhofstr. 1 · 69117 Heidelberg · Germany  
P +49 6221 187 31 50 · F +49 6221 187 31 99  
info@luxendo.eu · [luxendo.eu](http://luxendo.eu)

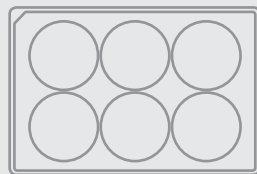
### UPRIGHT, DUAL VIEW, DUAL COLOR

- › Upright microscope configuration
- › **Two orthogonal views:**
  - (1) illumination through left objective lens & imaging with right objective lens;
  - (2) vice versa
- › Customizable laser combiner, up to 6 positions:  
405, 445, 488, 515, 561, 594, 642, 685 nm @ 50 mW
- › Flexible spectral configurations in two simultaneous channels
- › **Objectives:**  
**2 x 40x W @ 0.8 NA**, water immersion  
**Or:**  
**2 x 16x W @ 0.5 NA**, multiimmersion



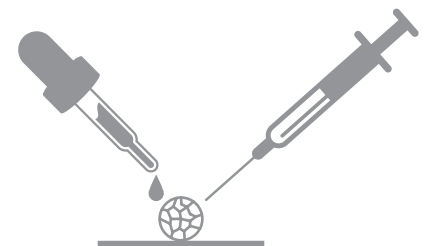
### SCREENING-READY

- › SBS-plate compatible (120 x 80 mm)
- › Multiple samples of various sizes and preparations
- › Large scanning area



### ACCESSIBILITY

- › Quick load feature
- › Easy access for sample manipulation



### FAST

Imaging with highly sensitive sCMOS cameras  
(Hamamatsu Orca Flash 4.0 V3) at maximum speed

- › 500 fps @ 192 x 2048 px
- › 125 fps @ 1024 x 2048 px
- › 75 fps @ 2048 x 2048 px



### SCANNED

#### Scanned light sheet

- › Adjustable light-sheet thickness: 2–6  $\mu\text{m}$
- › Flexible light-sheet area
- › Robust aberration tolerance even in complex samples
- › Line illumination for improved background suppression

