



# Go Deeper with Brillouin Microscopy

Feeling with Photons –  
Label-Free and Non-Invasive

- Quantitative Imaging of Mechanical Properties on Live Samples in 3D
- Extend Mechanobiology to the Volume from Cells to Organoids and Tissues
- Upgrade your Upright or Inverted Microscope and get Data that same Day



Mechanobiology Tools Made in Berlin

**DISCOVERER**  
BRILLOUIN MICROSCOPE

# DISCOVERER

## BRILLOUIN MICROSCOPE

### Brillouin Microscopy in brief

Brillouin Microscopy is an innovative imaging technique that enables the study of materials and biological tissues' mechanical properties without direct contact. By utilizing laser light to measure the movement of sound waves through a sample, it reveals insights into stiffness and elasticity at a microscopic level. This method is invaluable in material science, biomedical research, and engineering, offering a window into the structure and behavior of complex systems. Its non-invasive nature makes Brillouin Microscopy a key tool in advancing our understanding of both manufactured biomaterials and biological systems.

#### Benefits

- Integrates with optical microscopes
- Label free & Contact free
- Quantitative and reproducible
- Perfect for live samples

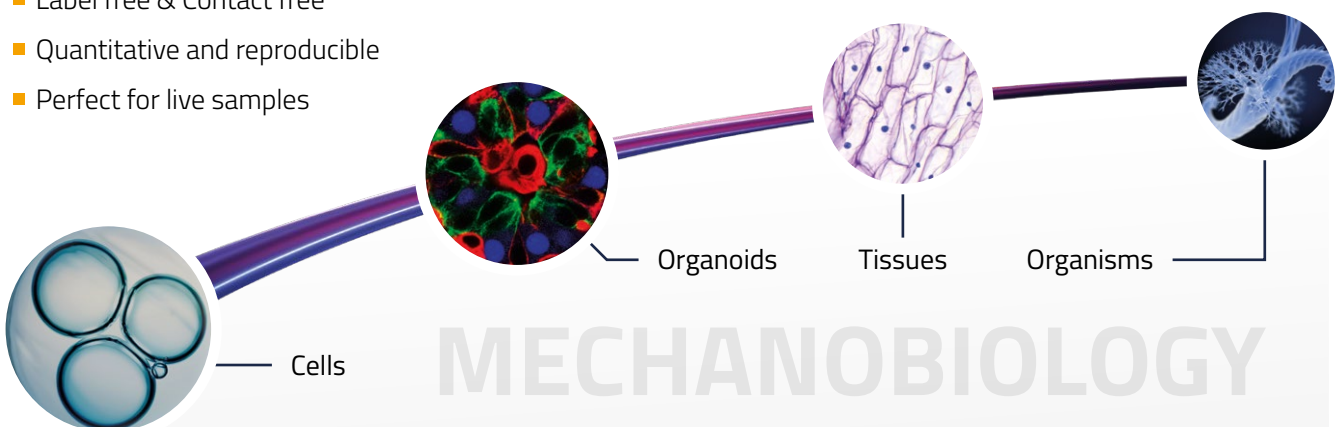
### The Discoverer

The CellSense Discoverer delivers the Brillouin technique to advance 3D Mechanobiology

#### Key Features

- Closed box, turn-key microscope add-on
- 780 nm laser for low phototoxicity
- Multi-stage interferometric spectrum detector
- Powerful and intuitive software cockpit
- Workflow based user experience

Developed by experts who built their experience in mechanobiology instrumentation at JPK Instruments, bringing years of dedicated knowledge to the Discoverer product family.



### References

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