

# THUNDER Imager Model Organism

Decode 3D Biology in Real Time\*

Mouse neurofilaments stained in red to assess neuronal outgrowth in this wt sample.  
Sample courtesy Yves Lutz, Centre d'imagerie, IGBMC (France).

The THUNDER Imager Model Organism is your solution for the 3D exploration of whole organisms used for developmental or molecular biology research.

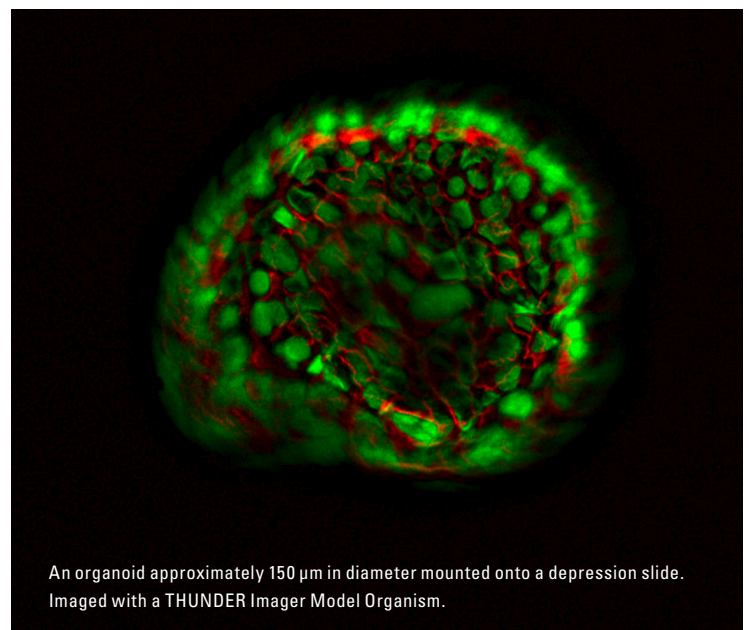
THUNDER Imager removes the out-of-focus blur that comes with three-dimensional samples through Computational Clearing, an exclusive new breakthrough technology. You still benefit from the imaging speed, maximum fluorescence efficiency, and ease-of-use common to widefield microscopes.

**With THUNDER Imager Model Organism, you have these advantages:**

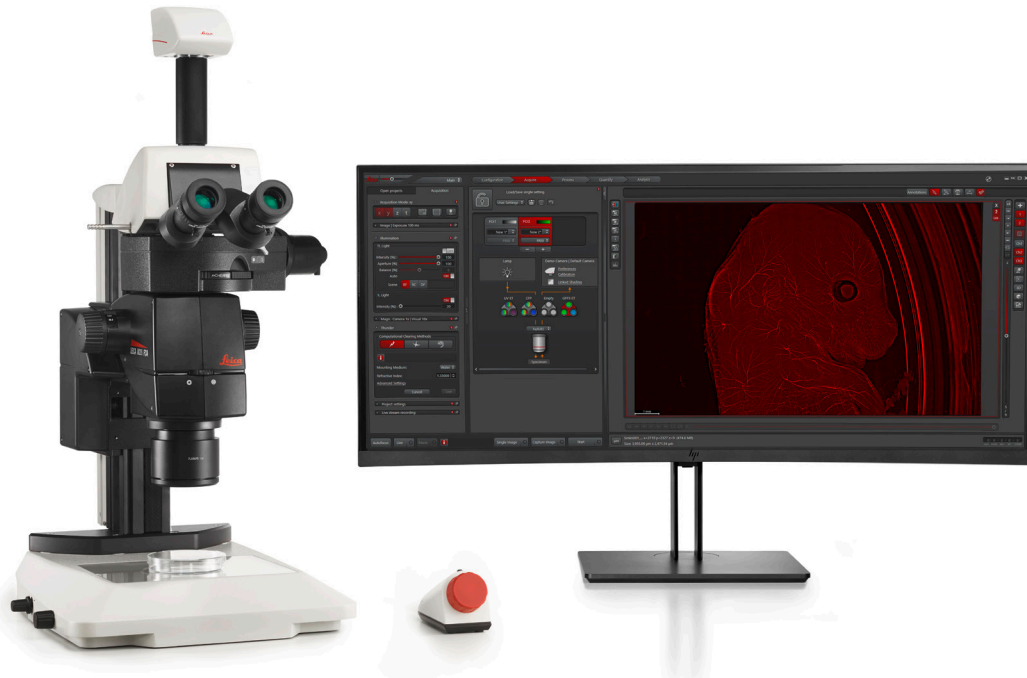
- > Rapid acquisition of blur-free images showing fine details, even from 500  $\mu\text{m}$  deep within thick organisms
- > Keep even large model organisms under excellent physiological conditions during imaging
- > Simplify your organism handling for a more efficient imaging and analysis workflow

The THUNDER Imager Model Organism is part of the THUNDER family of imaging systems.

\* in accordance with ISO/IEC 2382:2015



An organoid approximately 150  $\mu\text{m}$  in diameter mounted onto a depression slide.  
Imaged with a THUNDER Imager Model Organism.



## Blur-free images with fine details

Get the most information from your precious model organisms and reveal stunning details. Take advantage of the leap forward in image quality with THUNDER imager systems compared to conventional stereo microscopes. THUNDER removes the non-relevant background, while interesting details are preserved.

The THUNDER Imager Model Organism allows you to obtain great results for applications like:

- > Characterization of model organism transgenic lines (developmental biology)
- > Detailed observation of model organisms in real time (developmental biology, cardiology)
- > Investigating development of neuronal networks (neuroscience)

### **With THUNDER Imager Model Organism, you take full advantage of:**

- > Brilliant results in seconds
- > Instant display of haze free images during acquisition - no need to wait until the experiment is finished
- > Removal of out-of-focus blur efficiently even from single plane acquisitions
- > No need to calibrate or to adjust moving hardware components

CONNECT  
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