



Leica SD AF

Spinning disk system for fast confocal live cell imaging

Living up to Life

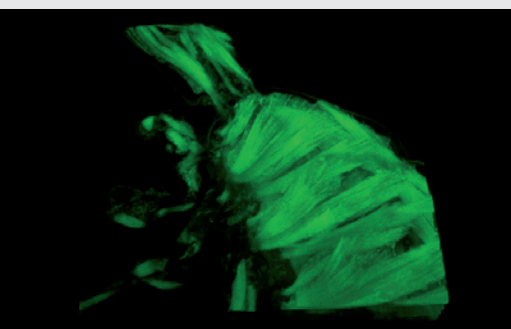
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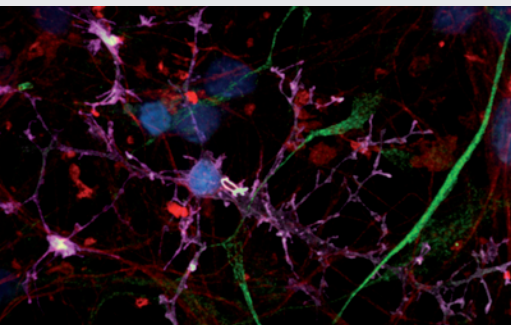
High Speed 3D Sectioning with Unmatched Image Quality

Your Benefits:

- Perform high speed confocal experiments on live cells and live animals
- Keep the specimen in focus with the Leica Adaptive Focus Control (AFC) – the fast hardware-based focus stabilizer
- Leica Microsystems' unique ACS objectives correct for chromatic aberrations, producing equally excellent images at all wavelengths
- Retain the highest resolution and contrast throughout the entire 3D section



3D reconstruction of a Copepoda



Primary cultured cortical neuronal cells. Specimen provided by FAN GmbH, Magdeburg, Germany

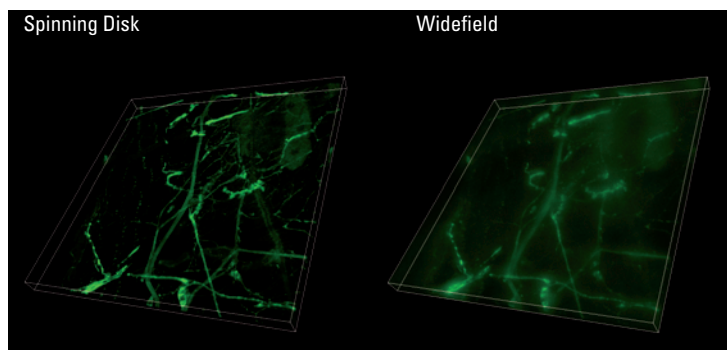
The Leica SD AF integrated system, combines superior Leica Microsystems optics, Yokogawa spinning disk technology, and the versatility of Leica MM AF software powered by MetaMorph®. Based on Leica Microsystems' breadth of experience developing true confocal and widefield imaging technology, these components together to form a unique solution for high speed confocal sectioning and 3D image reconstruction.

Dedicated Leica ACS (Advanced Correction System) optics enable the Yokogawa CSU-X1 spinning disk to produce unmatched image quality throughout the imaging spectrum from blue to red wavelengths.

Leica's water immersion micro dispenser, designed for high-resolution live cell studies and aberration-free sectioning with water immersion objectives, perfectly complements the 3D sectioning applications on the Leica SD AF.

A laser rack offers up to 5 laser lines controlled via AOTF (Acousto Optical Tunable Filter). The system is ideal for applications such as cell cycle investigations, intracellular transport kinetics, developmental biology, brain development, and ratio imaging, to name a few.

The Leica SD AF for high speed 3D sectioning with unmatched image quality, is available on inverted, upright, and fixed stage automated research microscopes.



3rd instar *drosophila melanogaster* larva.

Courtesy of Prof. Stephan Sigrist, Freie Universität Berlin, Germany

www.leica-microsystems.com



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