

From Eye to Insight



# THUNDER Imager Live Cell & 3D Assay

Decode 3D Biology in Real Time\*

Cultured Cortical Neurons. Green: beta-III-tubulin; blue: Nuclei. Image stack of 59 planes of a volume of 21µm was acquired using a THUNDER Imager Live Cell. Sample courtesy FAN GmbH, Magdeburg(Germany).

Begin every experiment with confidence when imaging advanced 3D cell culture assays, whether stem cells, spheroids, or organoids.

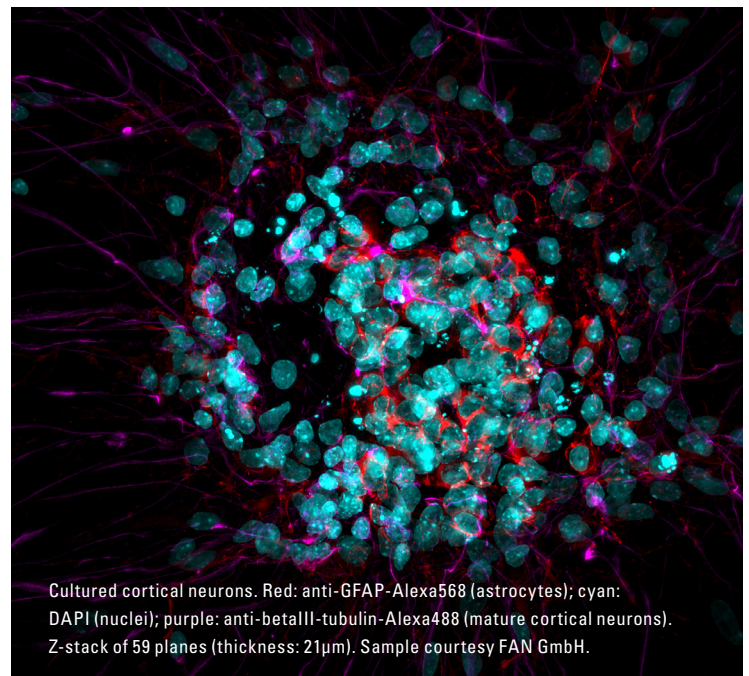
THUNDER Imagers remove the out-of-focus blur that comes with three-dimensional samples through Computational Clearing, now directly in your live preview. You still benefit from the imaging speed, sensitivity, and ease-of-use common to widefield microscopes.

**With a THUNDER Imager for Live Cell & 3D Assay, you have these advantages:**

- > Get computationally cleared images directly in your live preview
- > High throughput for better statistics and efficiency
- > High imaging performance from an easy-to-use instrument
- > Optimal physiological conditions for meaningful results

The THUNDER Imager Live Cell & 3D Assay is part of the THUNDER family of imaging systems.

\* in accordance with ISO/IEC 2382:2015



Cultured cortical neurons. Red: anti-GFAP-Alexa568 (astrocytes); cyan: DAPI (nuclei); purple: anti-betaIII-tubulin-Alexa488 (mature cortical neurons). Z-stack of 59 planes (thickness: 21µm). Sample courtesy FAN GmbH.



## Advance your live cell imaging to a whole new level optimized for specimens of physiological relevance

THUNDER Imager is designed to meet the needs of tomorrow's 3D cell culture applications. Work effortlessly with modern sample carrier formats, such as 8-chamber slides or 96-well plates. Generate more data in less time to boost the statistical power of your assay. Get closer to observing the real physiology of your 3D specimens by minimizing light exposure and obtaining brilliant images, while enjoying great ease-of-use.

### With a THUNDER Imager Live Cell & 3D Assay you take full advantage of:

- > High-speed positioning with the Quantum stage and Synapse real-time control (Quantum Stage only available with Live Cell)
- > High-speed illumination with a multi-line LED light source (Multiline LED light source optional for 3D Assay)
- > High-sensitivity thanks to sCMOS technology and Leica optics
- > Efficient removal of out-of-focus blur even from single plane acquisitions
- > Great ease-of-use, less training time
- > Compatibility with multi-well carriers for automated water immersion (optional) for better sensitivity and resolution.

CONNECT  
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