

# THUNDER Imager 3D Live Cell, 3D Cell Culture & 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 3D Cell Culture. Sample courtesy FAN GmbH, Magdeburg(Germany).

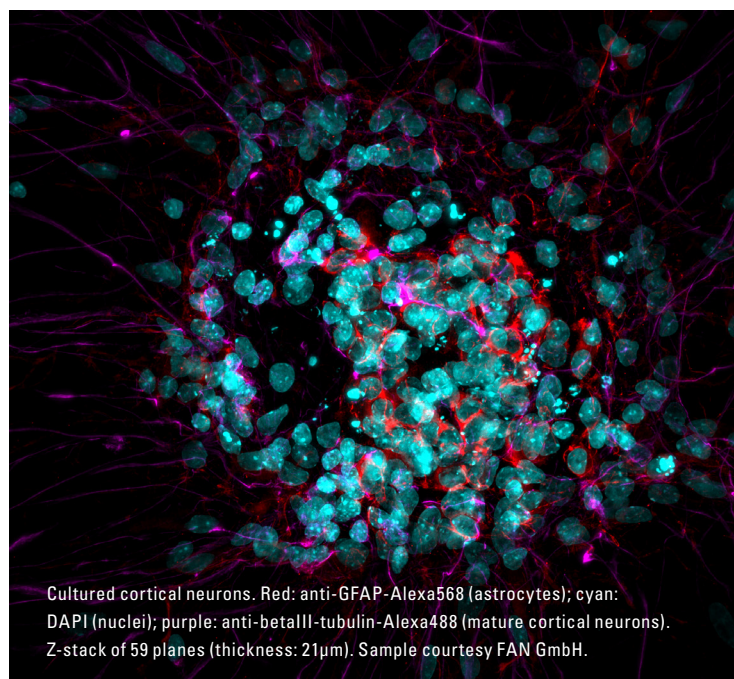
THUNDER Imagers offer you a solution for advanced 3D cell culture assays, whether you work with stem cells, spheroids, or organoids.

THUNDER Imagers remove 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, sensitivity, and ease-of-use common to widefield microscopes.

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

- > 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 3D Live Cell, 3D Cell Culture & 3D Assay are part of the THUNDER family of imaging systems.



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 3D Live Cell, 3D Cell Culture & 3D Assay you take full advantage of:

- > High-speed positioning with the Quantum stage and Synapse real-time control (Quantum Stage only available with 3DCC/3DLC)
- > 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
- > Compatible with multi-well carriers for automated water immersion (optional) to attain better sensitivity and resolution

CONNECT  
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