

NEW ImageXpress Micro Confocal High-Content Imaging System

Explore a new dimension with confocal technology - *at the speed of widefield*

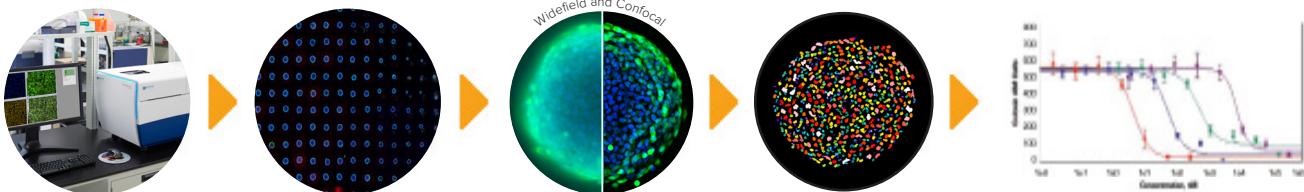
BENEFITS

- Match acquisition mode to your assay needs with multiple confocal geometries and widefield mode
- Capture publication-quality images without sacrificing throughput using proprietary AgileOptix™ technology
- Acquire statistically relevant data faster with large field of view and >3 log dynamic range
- Expand your research capabilities with transmitted light, liquid handling, and environmental control options

The new ImageXpress® Micro Confocal High-Content Imaging System enables you to expand the boundaries of your research with the ultimate combination of speed, sensitivity and flexibility in a turnkey solution. The ImageXpress Micro Confocal system lets you capture research-quality images with the widest range of objective lenses, allowing you to work at the resolution appropriate for your biology, including whole organism, thick tissues, 3D spheroid assays, and cellular or intracellular events - at a speed you would only expect from widefield screening.

For researchers looking to expand their laboratory's capabilities, the ImageXpress Micro Confocal system leverages large field-of-view optics to map macro-structures with minimal tiling. In addition, querying of large cell populations is accelerated, speeding up the characterization of highly heterogeneous samples or identification of rare subpopulations.

Combined with MetaXpress® High-Content Image Acquisition and Analysis Software, the ImageXpress Micro Confocal system provides you with a complete multi-dimensional, high-throughput screening solution to help you discover your next landmark scientific breakthrough.



Combined with MetaXpress High-Content Image Acquisition and Analysis Software, the ImageXpress Micro Confocal system is a complete solution that enables you to interpret your images, understand your data, and explore new ideas - in both widefield and confocal modes.

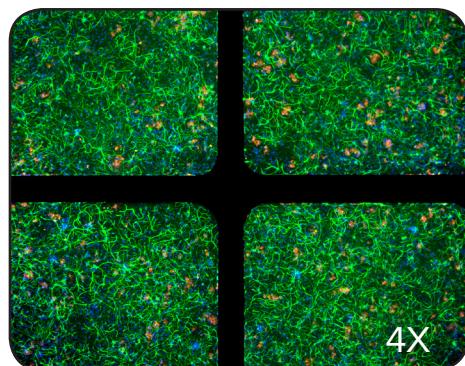
High resolution and dynamic range

The ImageXpress Micro Confocal system combines the ability to capture high-quality, publication-grade images without sacrificing throughput, reliability, or flexibility.

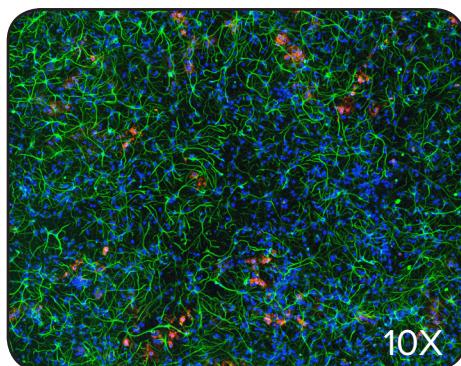
Our proprietary AgileOptix™ technology, provides increased sensitivity resulting in high contrast and high uniformity of intensity and shape across a large field of view. This optical path also achieves near-theoretical Z resolution. Featuring a high-quantum efficiency sCMOS detector and power-optimized solid-state light source, the ImageXpress Micro Confocal system delivers the images you need at the

throughput of widefield systems. Quickly and easily switch between confocal and widefield imaging modes to satisfy the specific throughput and sensitivity needs for your assay. Additionally, you can choose from a range of available confocal disk geometries to select the best fit for your experiments, including an exclusive slit option to capture high quality images at high-throughput speeds.

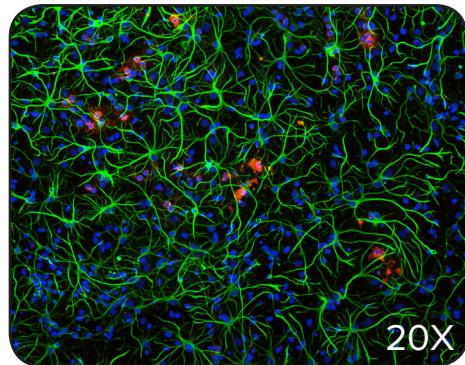
Built on over 30 years of cell-based imaging experience, the ImageXpress Micro Confocal High-Content Imaging system is engineered for performance to reliably accelerate the pace of your research.



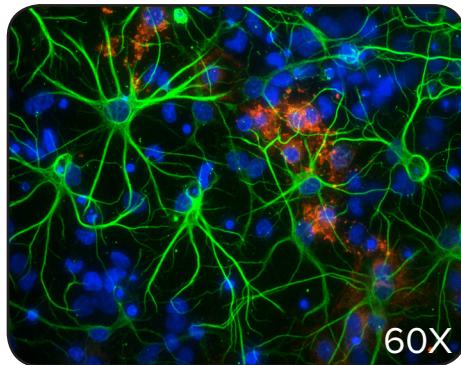
4X



10X



20X



60X

Automatically acquire images 1-100x objective magnification in slides and multi-well plates up to 1536-well format. Acquire >160,000 wells per day at 4x magnification with the system's unique multi-well crop feature. A 10x objective allows the entire well of a 1536-well plate to be imaged in one field-of-view while increasing magnifications allows the resolution of fine detail for analysis of subcellular events.

Key features:

- Proprietary AgileOptix™ Technology
 - » Automated confocal and widefield imaging with multiple, unique confocal disk geometry configurations
 - » Large field of view (1.97 mm² at 10x) with 16 bit sCMOS detection
 - » >3 log dynamic range in both confocal and widefield modes
- Acquire from a variety of multi-well plate formats up to 1536 including unusual formats developed for 3D assays with round bottom or trans-well plates
- 8 position emission filter wheel and 5 position dichroic wheel
- High speed laser and image autofocus
- Simplified Z stack acquisition and analysis
- Widest selection of objectives
 - » 1x to 100x magnification
 - » Air objectives: up to 0.95 NA
 - » Oil objectives: 1.4 NA
- Fully automated X-Y and Z stages with resolution better than 100 nm

Learn more about the ImageXpress Micro Confocal High-Content Imaging System. Visit www.moleculardevices.com/confocal or contact your local sales representative.

Contact Us

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Email: info@moldev.com

Check our website for a current listing of worldwide distributors



Additional Enhancements

Available options include Environmental Control (temperature, humidity and CO₂ control for multi-day live-cell experiments), Transmitted Light True Phase contrast option and Fluidics (on board disposable pipetting).