

Imaging solutions

to answer your biological questions

Stunning images | Fast throughput | Powerful analysis

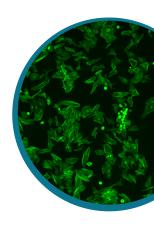
Imaging systems



SpectraMax® i3x Multi-Mode Microplate Reader with MiniMax imaging cytometer

Integrated multi-mode microplate reader and imaging system

- Ideal for cell counting, label-free imaging, and cell proliferation
- Western blot, imaging, and injectors on one configurable microplate reader
- · Stain free, automated cell counting
- Preset plate reader and imaging protocol library
- Advanced curve fitting and statistical analysis



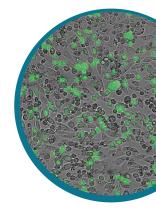


ImageXpress Pico

Compact system that allows users to go from samples to results in minutes

- Ideal for cell counting, transfection efficiency, and cell health assays
- 25+ preconfigured application protocols
- 3D z-stack acquisition
- On-the-fly analysis

- Environmental control for live cell assays
- Access data from a browser anytime, anywhere
- Optional Digital Confocal on-the-fly 2D deconvolution*



 * lmageXpress Pico Digital Confocal uses AutoQuant 2D Real-Time Deconvolution

Key features



High quality images



3D imaging and analysis



Environmental control



Fast throughput



Turnkey application protocols



Automation-compatible



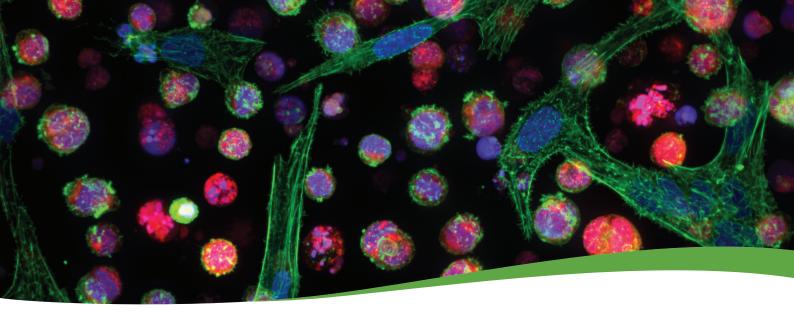
Multiple imaging modes



Ease of use



Water immersion imaging



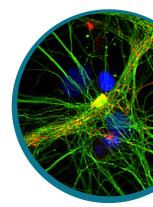


ImageXpress Nano

Fluorescence imaging, widefield platform for common biological assays

- Ideal for phagocytosis, mitotoxicity, autophagy, and cell differentiation
- CMOS 12 bit
- Better than 25 nm stage resolution
- 3D z-stack acquisition

- · High speed image acquisition
- Real time kinetic environmental control

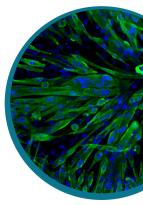




ImageXpress Micro 4

Configurable, high-throughput widefield imaging for fast biological processes

- Ideal for high-throughput screening, time-lapse imaging from calcium assays to multi-day subcellular assays, and intracellular yeast assays
- Greater than 3 log dynamic range
- Better than 25 nm stage resolution
- 3D volumetric analysis
- Upgradeable to confocal imaging
- Real-time kinetic environmental control

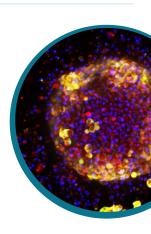


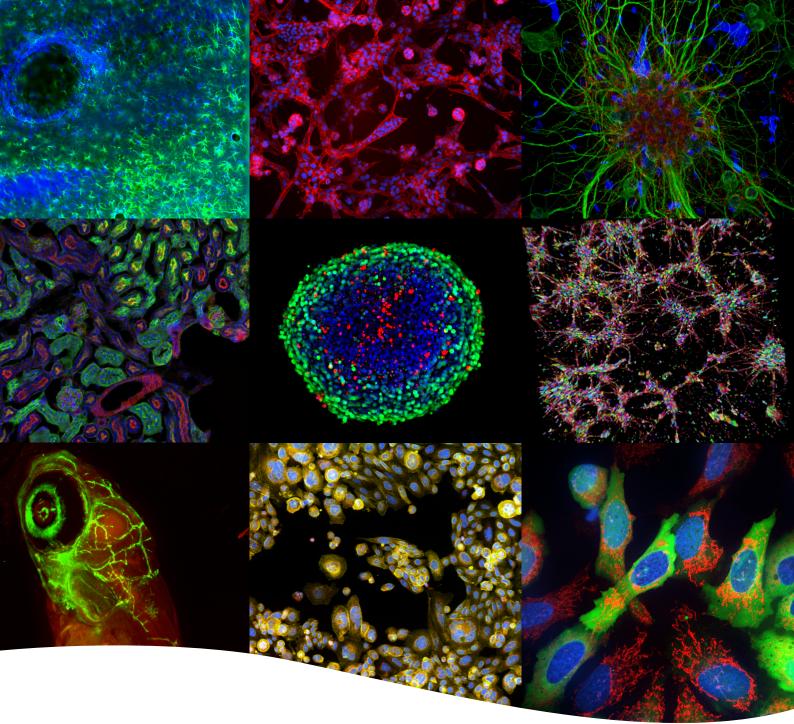


ImageXpress Micro Confocal

Combines speed, sensitivity, and resolution for confocal imaging

- · Ideal for 3D organoid and spheroid imaging
- Our most sensitive high-content imager
- Confocal imaging at the speed of widefield imaging
- Greater than 3 log dynamic range
- Better than 25 nm stage resolution
- 3D volumetric analysis
- · Laser excitation available
- Water immersion objectives and laser excitation available





Imaging applications

- Angiogenesis
- Apoptosis
- Autophagy
- Budding yeast screening
- Cell counting
- Cell cycle
- Cell migration and invasion
- Cell signaling
- Cell viability
- · Co-culture assays

- Comet assay
- Colocalization
- Embryonic/induced pluripotent stem cells, cell differentiation
- Fatty acid uptake
- FMAT homogeneous assay
- Matrigel cell culture assays
- Membrane analysis
- Micronuclei and genotoxicity analysis
- Mitochondrial localization

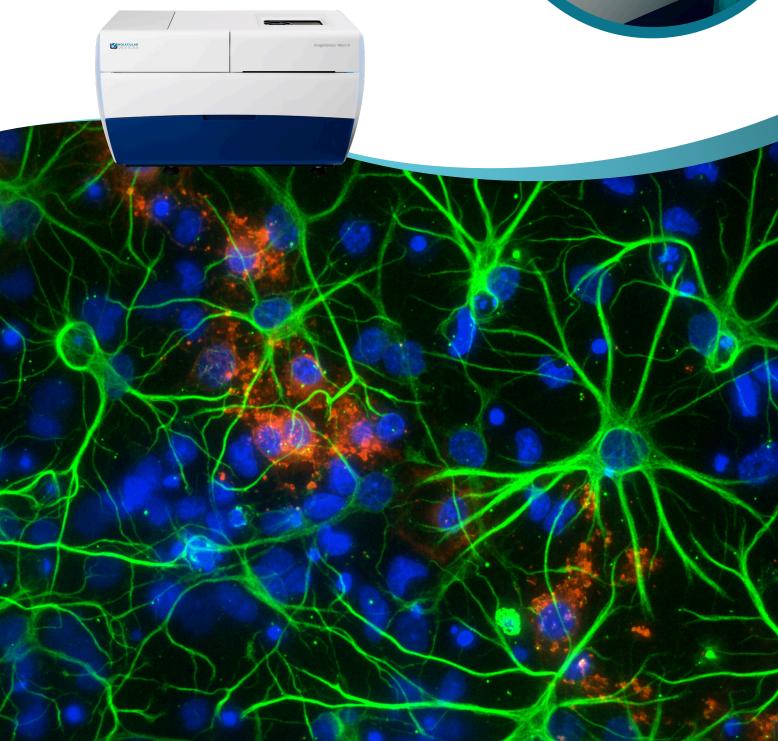
- Mitosi
- Monopolar spindle detection
- Neurite outgrowth/process extension
- Organoids
- Pathway analysis and multiplexing
- Protein expression
- Protein movement
- Protein phosphorylation
- Kinase activation

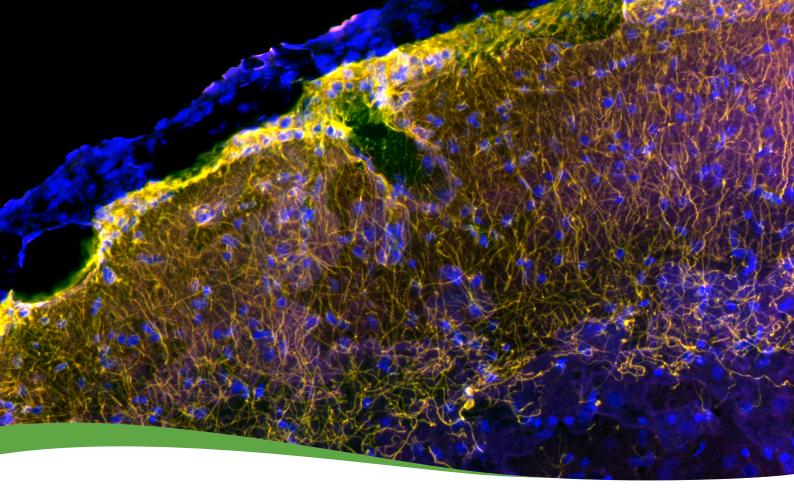
- Quantifying cellular punctate staining
- Ratiometric intracellular [Ca²⁺]measurements
- Receptor internalization
- Spheroids and colonies
- Stem cells
- Thick tissue slices
- Transfection effifficiencies
- · Wound healing
- Zebrafish assays

Exceptional image acquisition at high speed

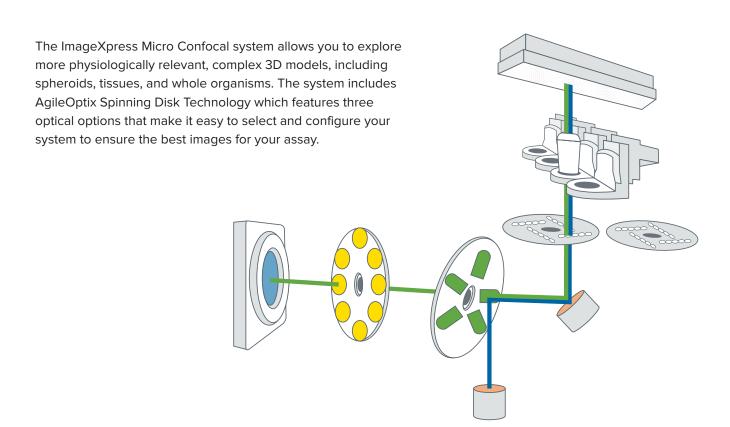
The ImageXpress Micro 4 and Nano systems are versatile instruments based on an inverted widefield microscope that comes standard in all models. The models are equipped with a large field-of-view camera and an on-demand solid state light engine, providing greater throughput.

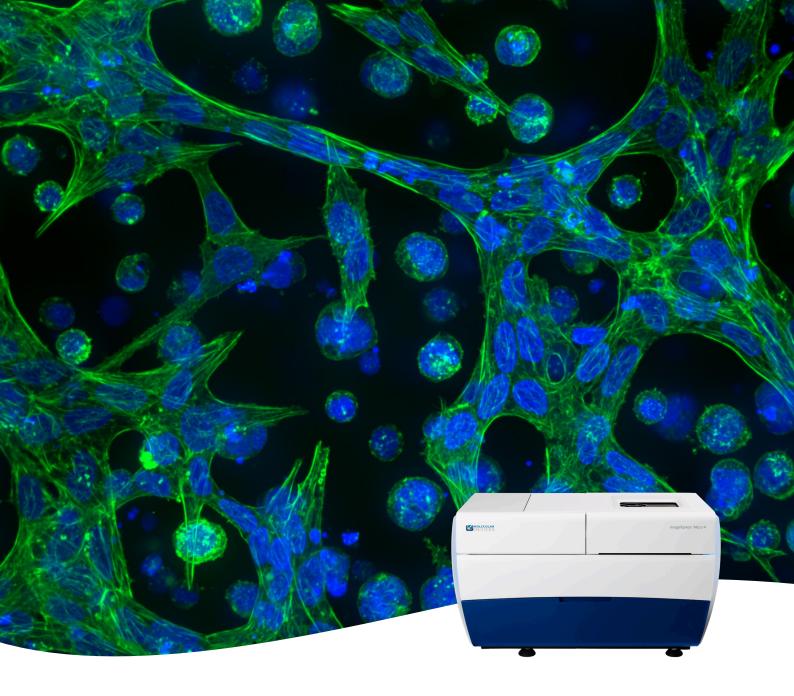






Confocal capability improves image clarity and data quality







Spinning disk geometry	60 µm pinhole	50 μm slit	42 µm pinhole
High-sensitivity detection	•	•	•
Fast acquisition	•	•	•
>3 log dynamic range*	•	•	•
Widefield mode for flat biology	•	•	•
Most confocal applications	•	•	•
Highest resolution imaging			•
High throughput applications		•	

 $^{^*\}mbox{Powered}$ by our highly responsive sCMOS sensor and advanced solid state light source.

System specifications







ImageXpress Pico Automated Cell Imaging System



ImageXpress Nano Automated Imaging System



ImageXpress
Micro 4
High-Content
Imaging System



ImageXpress Micro Confocal High-Content Imaging System

Product features

Microplate types	6- to 1536-wells for plate reader, 96- and 384-wells for imaging	Up to 384 wells	Up to 1536 wells	Up to 1536 wells	Up to 1536 wells
Microscope slides	•	•	•	•	•
Number of fluorescent channels	2	4	5	5	5
Objective range	4X	4–63X	2–60X	1–100X	1–100X
AgileOptix Spinning Disk Technology				Upgradeable	•
Z-stack acquisition		•	•	•	•

Optional features

Optional reatures				
Water immersion objectives				20X, 40X, & 60X
Confocal	Digital*	Digital*	Digital*	•
Environmental control for CO ₂ , humidity and temperature control	•	•	•	•
Automated 3D analysis with volumetric output		•	•	•
On-board liquid handling			•	•
Dual injectors •				
Brightfield transmitted light •	•	•	•	•
Phase contrast			•	•
*Digital Confocal uses AutoQuant 2D Real-Time Deco	nvolution	1	1	'

Pigital Comocal ases / lato Quant 25 Near Time Deconvolution

High-performance customizations

High-intensity laser light source		•	•	•
Deep tissue penetrating, confocal disk module		•	•	•

[†]For terms and conditions, visit www.moleculardevices.com/ixmc#options

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