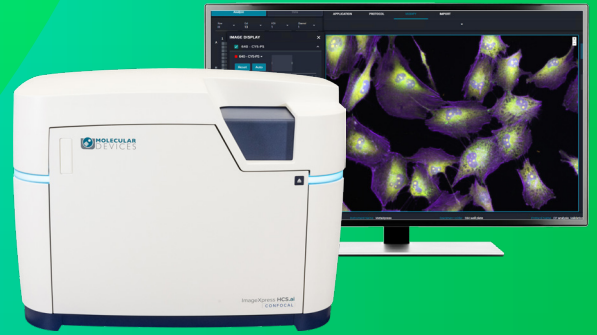


ImageXpress HCS.ai Confocal System

Core-ready imaging excellence
that drives discovery

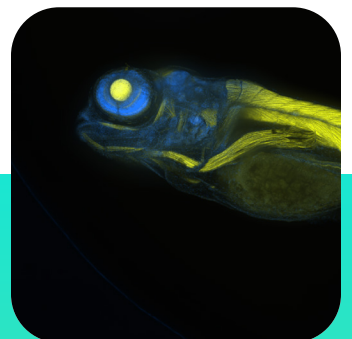
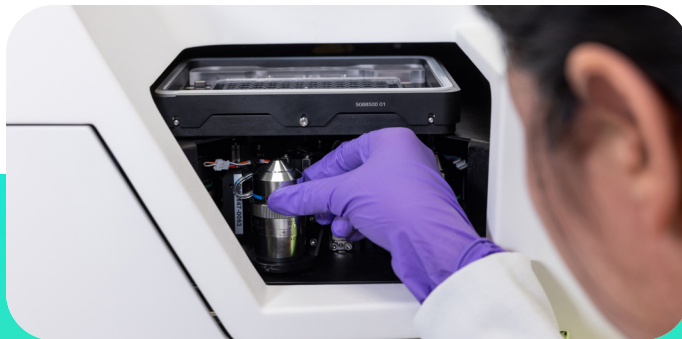
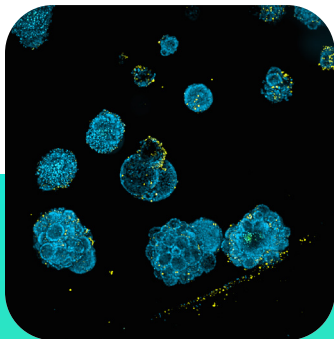


Built for shared labs that never stop running

Why ImageXpress HCS.ai Confocal System for academic core labs?

Academic core facilities must provide consistent service to dozens or hundreds of users, each with different experience levels, scientific questions, and assay types, while keeping instruments fully utilized and justifying large capital outlays, often through shared instrumentation grants (e.g., S10, NSF MRI).

The ImageXpress® HCS.ai High Content Screening Confocal System was designed precisely to meet these pressures: it combines high-end confocal performance with a multi-user-friendly interface, AI-enabled analysis, and modular, upgradable architecture that gives core facilities a future-ready, low-risk investment.



**Confocal performance
that scales with every
user, every project,
every day**

For academic core facilities at the center of discovery, the ImageXpress HCS.ai Confocal System delivers intuitive acquisition for new users and advanced control for experts. Integrated with IN Carta® Image Analysis Software and built on a future-ready, upgradable platform, it empowers every researcher to answer complex questions with confidence, today and into the future.

Key benefits for academic core labs



Confocal performance built for busy, high-demand core facilities

Built for high-demand, multi-user core environments, the system combines spinning-disk confocal optics with deep-tissue capability, configurable multi-channel illumination, a high-QE sCMOS camera, automated water-immersion objectives, and high-rate plate throughput to deliver consistent, high-quality imaging across 2D assays and complex 3D models while keeping pace with heavy booking loads.

What it means for core labs: **You can confidently support complex confocal assays for many departments, without creating bottlenecks or compromising on data quality.**



Intuitive for novices, customizable for experts

Designed for the realities of shared facilities, the system features the reimagined MetaXpress® Acquire Acquisition Software with an intuitive interface for new users and advanced control for experienced researchers, reducing training burden, improving inter-user consistency, and supporting complex, high-throughput experimental workflows across the core.

What it means for core labs: **You can onboard more users faster, reduce “handholding” time for staff, and still give expert users the flexibility they need.**



Integrated IN Carta® Image Analysis Software for faster, more reproducible insights

In multi-user environments, analysis must be as robust and reproducible as acquisition, which is why the system unifies MetaXpress® Acquire Acquisition Software and IN Carta® Image Analysis Software in a single platform; enabling seamless workflow continuity, AI-driven 2D and 3D segmentation and classification, and scalable, standardized analysis that reduces manual post-processing and supports consistency across a broad user base.

What it means for core labs: **You can process more data, support more users, and deliver more reproducible results, without needing a dedicated army of image analysts.**



Modular, upgradable architecture for future-proof, low-risk investment

Core facilities must balance evolving scientific demands with defined capital and grant constraints, and the ImageXpress HCS.ai Confocal System supports that objective with a scalable platform that aligns with current budgets, enables seamless capability expansion over time, minimizes disruption through field-installable enhancements, and delivers the reliability and service support essential to sustaining uptime in shared research environments.

What it means for core labs: **You can justify investment to committees and grant bodies with a platform that grows with your community, not one you need to replace.**



Empower every user in your core with high-performance confocal imaging and AI-driven analysis.
Request a workflow consultation or on-site demo today.

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