



Microscopy challenges

Advanced imaging applications often demand specialized instruments that conventional, off-the-shelf microscopes can't deliver. Standard systems may lack the flexibility to adapt to unique experimental setups, forcing researchers to compromise on image quality, functionality, or workflow. Integrating high-performance components into a cohesive, reliable system can also be costly and complex without expert guidance.

The Ensorcell™ solution

Cellular Focus™ is where expert engineering and biology come together to design reliable imaging workstations, integrating high-quality components to build tailor-made instruments. In this partnership between Ensorcell and Re:Build Fikst, we collaborate closely with scientists to understand their experimental requirements and particular applications to build the instrument to exact specifications. The result is a powerful, reliable and affordable custom imaging system built from the ground up with the finest and familiar OEM components, integrating features with our intuitive and easy-to-use software.



Automation

Robotics, microplate management, multi-channel liquid handling and microfluidics control.



Image stitching

Area selection image capture with cloud file storage.



Incubation

Temperature and CO₂ control for live cell imaging.



Machine vision

Designed with detection, decoding and counting capabilities.



Customization

Optimized for compatibility with diverse lab platforms and processes.



Microfluidics

Efficient and precise manipulation of fluids.



INTEGRATED FEATURES

- GUI with controls for camera, illuminator, and motion control
- Display for user interface and on-screen real-time imaging
- XY Stage with up to 305mm x 305mm of travel
- Automated turret with up to 6 objectives
- Scientific sCMOS camera
- Individually selectable LED light sources

Every Cellular Focus workstation is built from core components sourced from leading microscopy OEM partners.

Fully customizable offering

We design your imaging workstation with you to match your requirements exactly, with components from well-known microscopy brands. We can fabricate novel accessories and consumables in our facility with our expert engineers, and support custom software features and add-ons beyond our out-of-the-box system.

Contact

info@ensorcell.bio

Visit ensorcell.bio/cellular-focus to learn more.

Performance characteristics may vary based on application and operating conditions. Products are intended for research use only and are not intended for diagnostic, therapeutic, or clinical applications.

CUSTOMIZABLE FEATURES

- Biological incubator for live cell and tissue imaging
- Environmental chamber with heating
- Gas mixer for cell culture
- Microfluidics integration with multiple channels
- Microfluidics consumable design
- Liquid handling and recipe control
- Microdissection
- Machine vision (cell identification, counting, analysis)
- Custom illumination
- Robotics and automated sample handling

There are limitless customization parameters that our engineers can explore with you. Contact us to talk with our experts about designing the imaging workstation that will meet your specifications.