# MCAM ™

Kestrel *Behavior System*

Ramona's **Multi-Camera Array Microscope ™ (MCAM)** uses an array of micro-cameras to capture an entire well plate in a single snapshot at high-resolution.

The **Kestrel Behavior System** provides you with the ability to simultaneously observe all wells of a standard well plate with 24X higher spatial and temporal resolution than leading competitors. From morphology and heartbeat to locomotion and startle response, acquire multiple readouts in one integrated system.
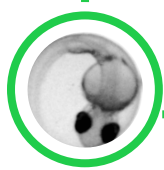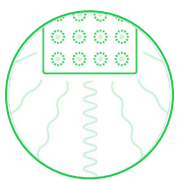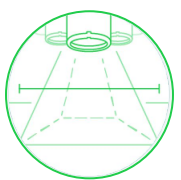
Ramona FOV

Ramona Resolution

ramona

See What You're Missing.

High-throughput
Inspired by the tools scientists use everyday, the Kestrel Behavior System is ideal for multi-well plates. Run experiments using any standard 24, 48, or 96–well plate.

A Uniform View
Perspective makes peering into many deep wells problematic with a single lens. Our array of micro-cameras and wide-field illumination uniformly solves this.
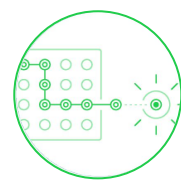
Speed Control
Select speeds from 20fps to 180fps depending on the behavioral question being asked - total movement vs escape response, for example.

Custom Workflows
Already have an assay? Integrate it easily in our intuitive software and build upon your lab expertise and our technology.

Kestrel
Behavior System
Multi-Camera Array Microscope ™

Quality Tracking
Accurate skeletonized tracking with machine learning. Made possible with the unique combination of pixels + speed.
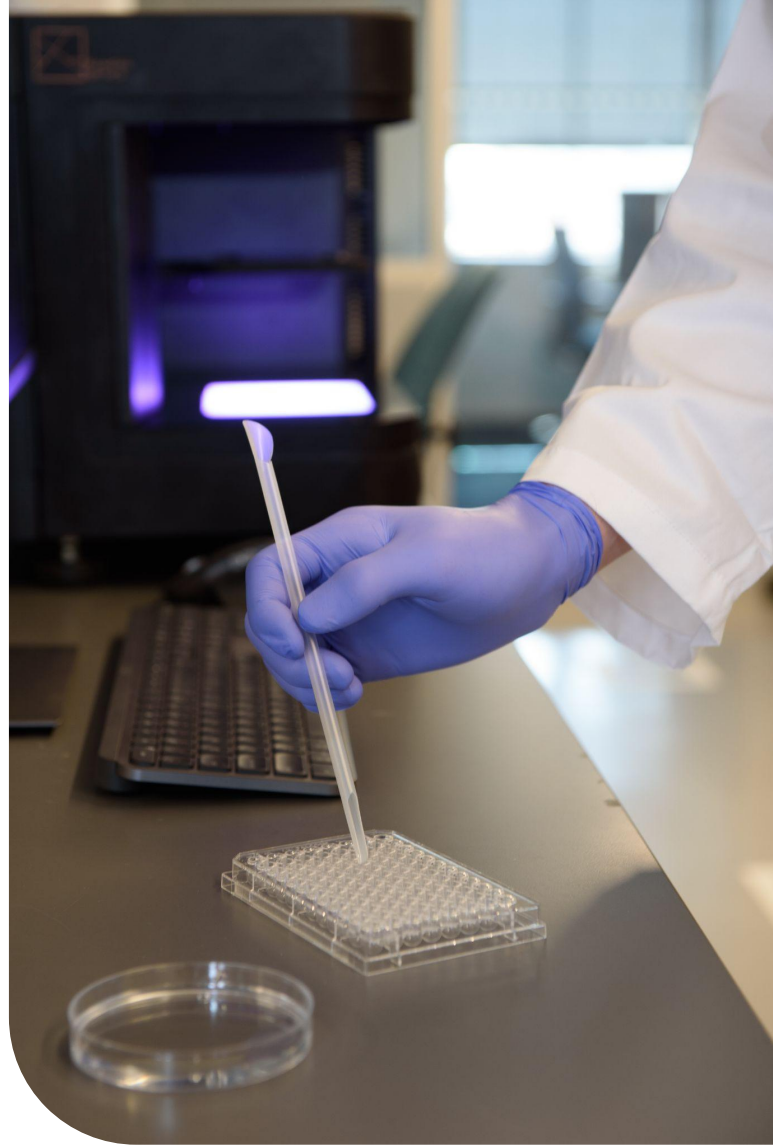
Morphology
High-resolution data for automated calculations of body length and eye size.

1500 LED Illumination
Visible + Infrared. Full control over color, intensity, duration, and pattern for optimized assays.

Versatile Software
Ensure reproducibility across workflows with metadata logs. Incorporate easily with other lab equipment through open API, and take control with simple UI/UX.

Development Partners

NC State | Duke UNIVERSITY | NIH | NSF | Oregon State University | Harvard VERITAS

See more at **ramonaoptics.com**.