

CANTY

PROCESS TECHNOLOGY

MINICELL - CELL COUNT & VIABILITY ANALYSIS

The Canty MiniCell is engineered for small-volume cell analysis, measuring cell size, shape and concentration. The MiniCell converts easily from a lab unit to an at-line continuous sampler when paired with auto-sampling devices. In either case, The system provides microscopic, non-destructive viewing and cell size analysis with two dimensional results when used in conjunction with CantyVision™ Software.

The vision system combines integral lighting and precision optics to enhance the image prior to display or analysis. The image sensor is a high resolution / high speed CCD camera coupled to a microscopic lens system. The system offers variable lighting, and multiple objective lens packages to cover a range of sizes. With high-magnification optics and an intense light source, sizing down to 0.7 μm is achievable.

The MiniCell features CANTY's FUSEVIEW™ window as the flush product contact barrier, which ensures laminar flow & eliminates pockets for potential product build-up. The system is compatible with multiple pump types, including syringe injection and peristaltic pumps.

APPLICATIONS

- Cell diameter, radius, area, and volume
- Necrotic, apoptotic, viable, and mitotic analysis
- Cell count
- Circularity
- Cell health and cluster analysis

FEATURES

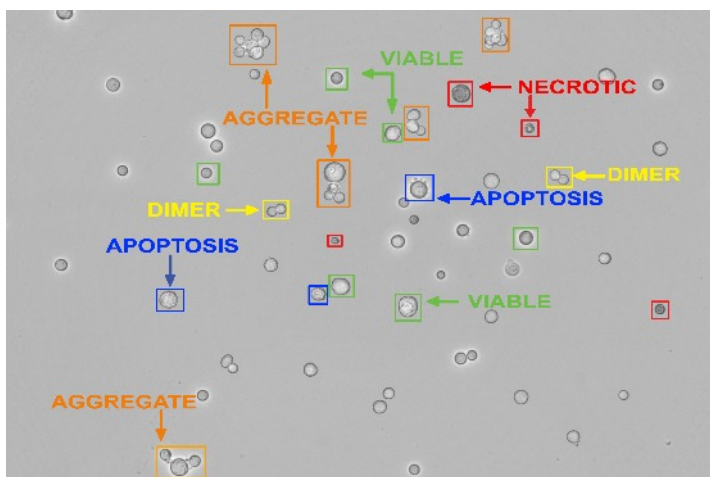
- Cell size, shape and distribution with Real Time Analysis
- Quick release Tri-Clamp™ body connections for easy cleaning
- Cold back light eliminates heating of the sample even at high outputs which are required for high shutter speed viewing
- Gigabit Ethernet High-Speed Imaging Device
- Small sample size analysis down to 5mL
- Syringe pump integration for easy sample
- Easily converts from lab to on-line
- Luer lock connection
- 2.5 minutes to run an 8mL sample
- Analyze suspended cells down to .7 micron
- Software analysis of up to 15 FPS
- Auto cleaning/flushing cycle with cleanliness determination



THE CANTY ADVANTAGE

- Real time measurement, particle size & shape/characterization.
- Visual verification and the ability to timestamp recorded video.
- Lab-friendly design with linear rail stand to allow for ease of cleaning during sample change out.
- Image based microscopy / Two dimensional.
- Multiple flow configurations (on-line, at-line, syringe pump, peristaltic pump).
- Auto dilution with peristaltic pump or syringe pump done through the software.
- For additional information, click below:

[TheApplicationofDynamicImagingforMammalian Cell Analysis](#)



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www.jmcanty.com

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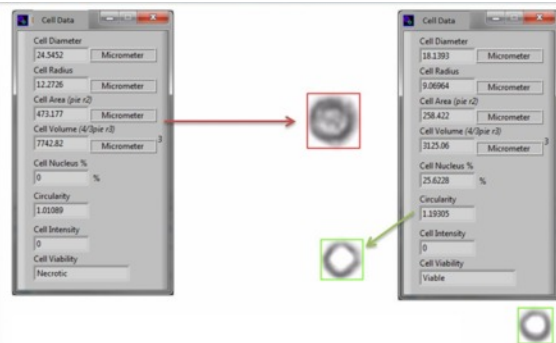
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DIMENSIONAL INFORMATION

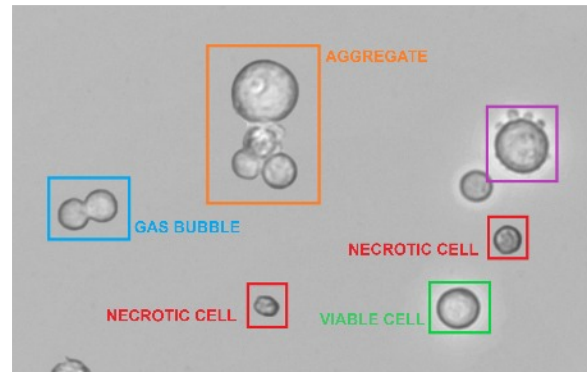


Ordering Information

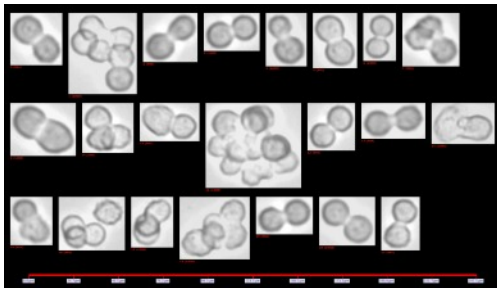
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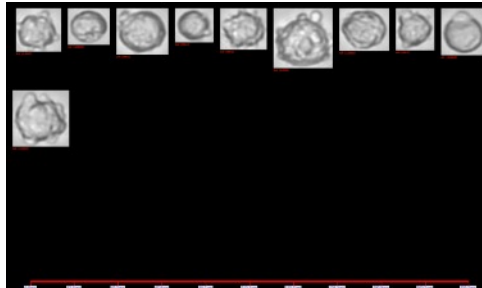
Individual cell information - distinguishes between live and dead cells



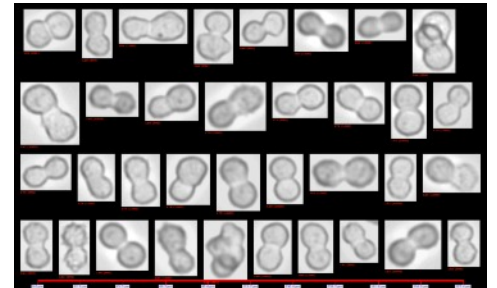
Cell viability determination using cellular intensity, cell nucleus area, and circularity



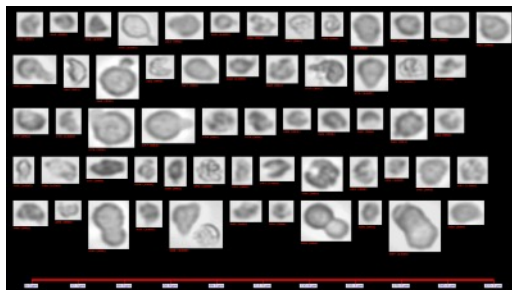
Agglomerated Cells



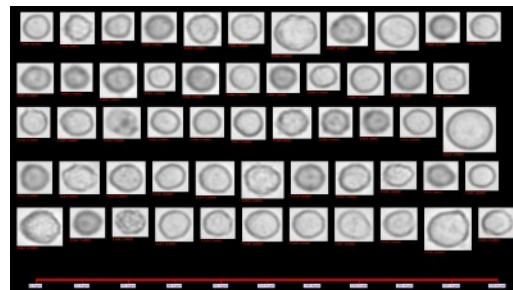
Apoptotic Cells



Mitotic Cells



Necrotic Cells



Viable Cells

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