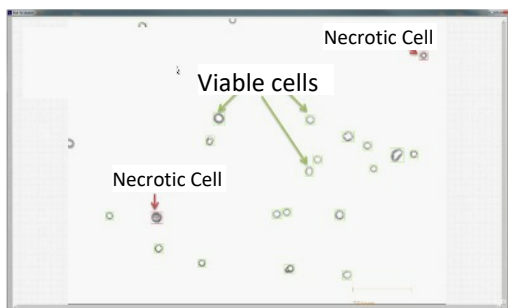


CANTY

PROCESS TECHNOLOGY

MINICELL - CELL COUNT & VIABILITY ANALYSIS

The Canty MiniCell has been engineered to analyze small volume samples for cell size, shape and concentration. The MiniCell easily converts from a lab unit to allow for continuous sampling at-line by tying into various auto-sampling devices. It offers microscopic, non-destructive viewing and provides cell size analysis with two dimensional results when used in conjunction with the CantyVision™ Software. The vision system, with integral lighting, features precision optics designed 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 zoom and focus ability, variable lighting, and multiple objective lens packages to cover a range of sizes. The MiniCell features the FUSEVIEW™ window as the flush product contact barrier which ensures laminar flow & eliminates pockets for potential product build-up. Sizing down to 0.7 micron is possible with the high magnification optics and high intensity light source. A variety of pumps can be used in conjunction with the system, including syringe style injection as well as peristaltic pumps.



FEATURES

- Cell Size, Shape and Distribution with Real Time Analysis
- Fused Glass Pressure Barrier Standard
- 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 circulation
- Easily converts from lab to on-line
- 1/2" Tri-clamp™ / Luer lock connection standard.
- 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

APPLICATIONS

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

ADVANTAGES

- 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).
- Available Tri-Clamp™ connections allow for optimal sanitary conditions, CIP or SIP.
- Auto dilution with peristaltic pump or syringe pump done through the software.
- For additional information, see:
<https://www.jmcanty.com/wp-content/uploads/TA12500-1004.pptx>

CANTY

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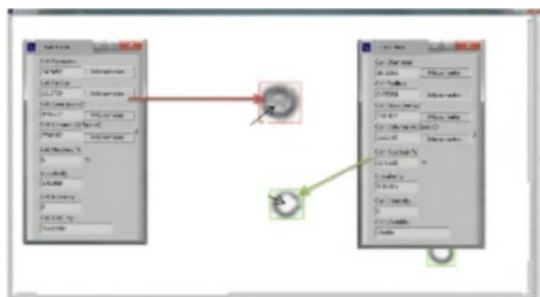
Document P/N: TA11500-1045 Rev. 3

DIMENSIONAL INFORMATION

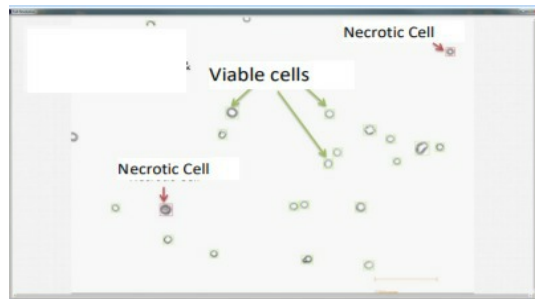


Ordering Information

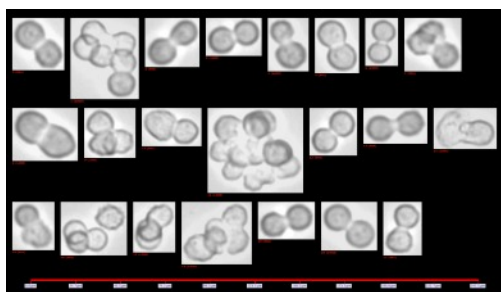
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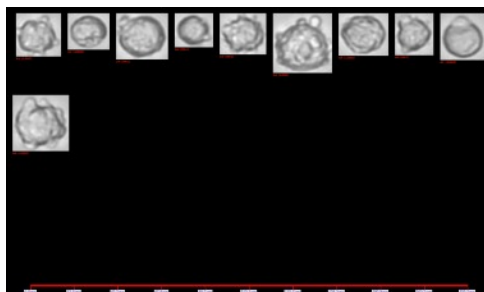
Individual cell information - distinguishes between live and dead cells



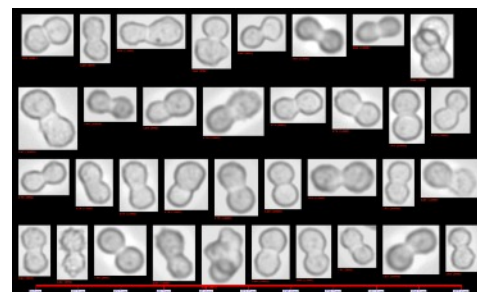
Cell viability determination using cellular intensity, cell nucleus area, and circularity



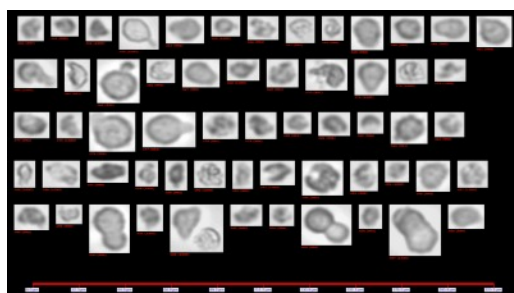
Agglomerated Cells



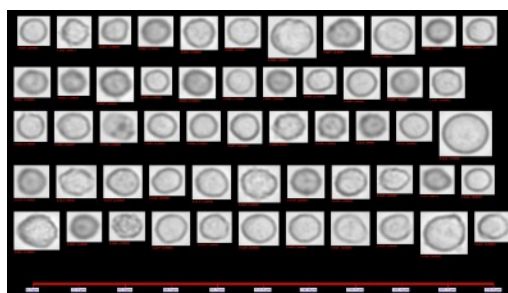
Apoptotic Cells



Mitotic Cells



Necrotic Cells



Viable Cells

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