

QuadCount™ Automated Cell Counter

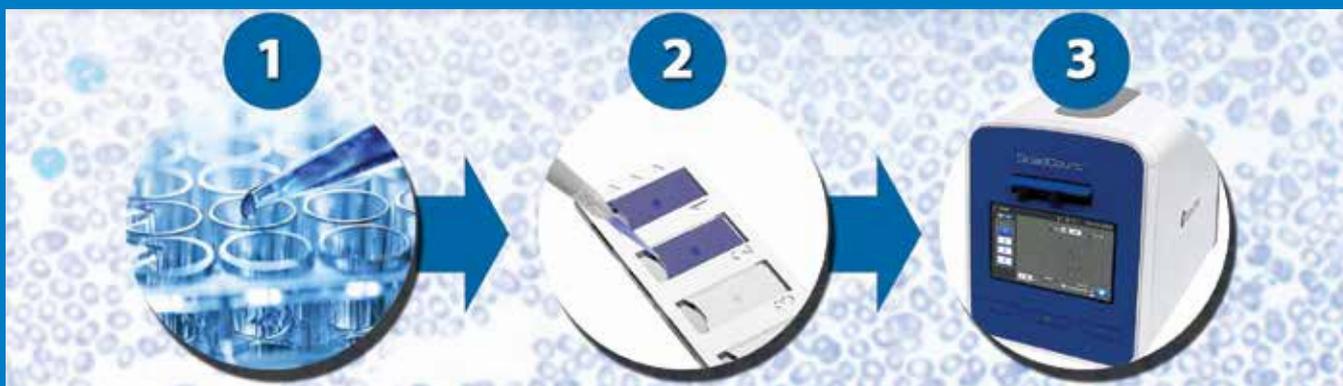
Eliminate human error and count with confidence

The Accuris QuadCount™ improves on the simple technique of brightfield microscopy by utilizing an LED light source, precision optics and a high resolution CMOS detector. A finely tuned, motorised XYZ positioning stage provides for extra fine focusing and the ability to capture multiple images.



- › Fast, accurate and reproducible results
- › Intuitive software with auto-focus and touch screen interface
- › Cost effective QuadSlides – disposable slides with four individual chambers
- › Increased counting accuracy, with counting volumes up to 3.6ul

It's never been easier to perform **FAST, ACCURATE** cell counts:



1 Prepare cell suspension with trypan blue

2 Pipette 20ul of sample into QuadSlide chamber

3 Insert slide into QuadCount™ and press START

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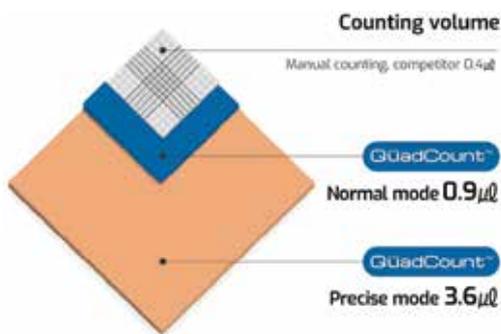


Pathtech™
First Choice In Science

Count with confidence

With count speeds as fast as 20 seconds per sample, the Accuris QuadCount™ provides many advantages over the tedious and time consuming manual hemocytometry method. The advanced software eliminates human bias in dead/live determinations, reduces counting errors, saves time, and improves efficiency.

The QuadCount™ utilises a unique 4-chambered disposable QuadSlide. Four samples can be processed in one slide (twice the capacity of the standard 2-chambered slides), decreasing consumable costs. Each chamber has a hydrophilic inner surface with an engraved grid pattern. High precision production and moulding ensure that each QuadSlide meets the rigorous standards and dimensional tolerances required for optimal counting performance.



3 count modes available to analyse different sample volumes:

Quick mode: 0.15µl/20 seconds (1 image frame)

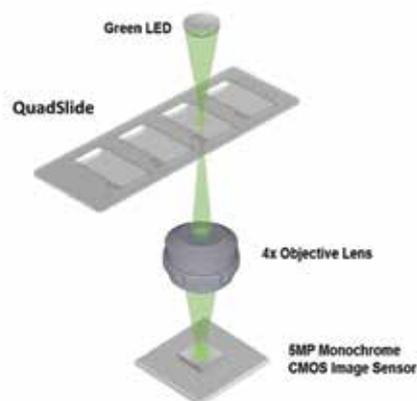
Normal mode: 0.9µl/30 seconds (6 image frames)

Precise mode: 3.6µl/100 seconds (24 image frames)

Advanced optics and imaging technology

The Accuris QuadCount™ incorporates the highest quality optical and electronic components, such as 4X objective lens and 5MP CMOS detector, the ensure reliable performance and consistent results.

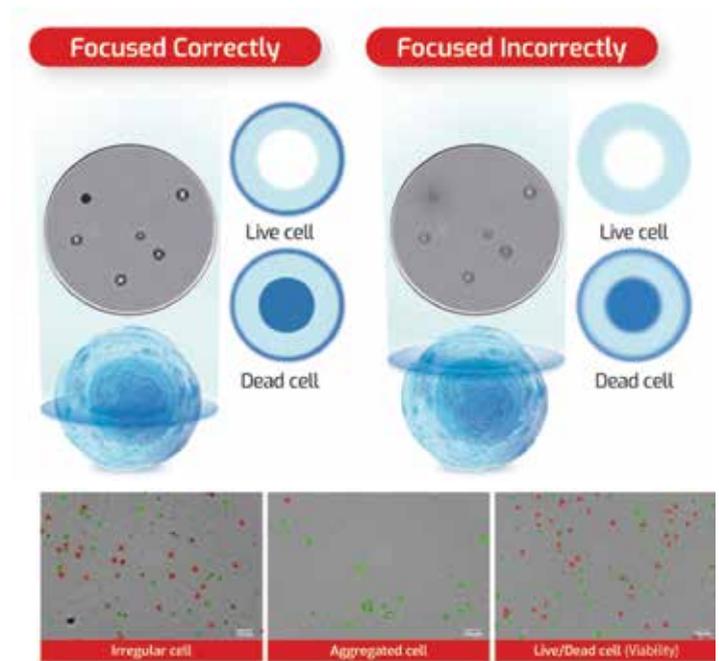
The precision motorised stage adjusts the position of the lens and sensor assembly in micron increments for automatic focus. Multiple image frames (up to 24) can be captured to increase the volume of sample counted, providing high level of accuracy.



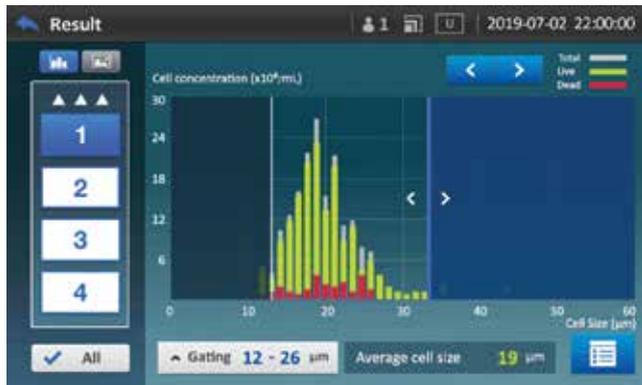
Advanced algorithms

Correct focus is crucial for accurate counts of viable cells. The QuadCount's propriety autofocus system and image analysis software work in conjunction with motorised stage to analyse and capture images in the proper focal plane.

Advanced detection algorithms easily manage irregularly shaped and aggregated cells. Often misinterpreted by visual counting, correct analysis of these cells is performed by QuadCount's software, resulting in more accurate counts. User to user variation eliminated.



Intuitive user interface

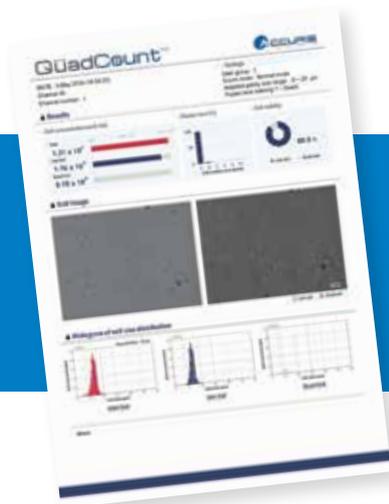


Cell population statistics are viewed as a histogram and cell size gating can be adjusted. Choose to view the histogram data for individual or multiple chambers in each QuadSlide.



After images are captured, the cell count parameters are easily adjusted.

1. Gating size range
2. Aggregation level
3. Live/dead definition



USB ports are available for connecting printer, barcode scanner, external keyboard, or flash drives. Detailed PDF reports can be exported to a flash drive and transferred to a PC for saving or printing.

Specifications

Optics:	High quality 4x objective lens
Image Detection:	5 mega pixel CMOS sensor
Illumination:	Green LED (50,000hrs.)
Sample Volume:	20ul (4 samples per QuadSlide)
Max Counting Volume:	3.6ul (24 image captures)
Consumable Slide:	QuadSlide, 4 chamber
Counting Modes:	Quick (20 sec), Normal (30 sec)
Dynamic Range:	1x10 ⁴ to 1x10 ⁷ cells/ml
Cell Size Range:	50-60um
Data Output:	USB drive for PDF report
Dimensions (LxWxH):	16.3 x 29.3 x 21.6cm
Weight:	5kg
Electrical:	100V AC – 240V AC

Ordering Information

Product Code	Description
032-E7500-E	QuadCount™ Automated Cell Counter 230V *includes USB flash drive
032-E7500-S1	QuadSlides, four chamber slides, 50/pk



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