

# SomaScope Smart

Somatic Cell Counter

Official Approvals:  
IDF, FDA



Fast - 39 sec



Individual Cow Sample Testers



Producers, Transporters, Central Dairy Lab



Latest LED & Flow Cell Cytometry

Industry-Leading Somatic Cell Counting



DELTA INSTRUMENTS IS NOW A PART OF PERTENT INSTRUMENTS

# SomaScope Smart Somatic Cell Counter.



**The Delta SomaScope™ Smart** incorporates the latest in LED and Flow Cell Cytometry. It's fast, accurate and easy to use providing information at the touch of a button. The integrated design makes operation and maintenance simple. The intuitive software allows operators to analyze easily while managing calibration and data sharing capabilities.

Whether testing individual cow samples to improve herd health and yield or in-process samples to improve shelf-life and quality, the SomaScope Smart provides the most accurate and affordable solution for your laboratory.



## Providing Industry-Leading Capabilities for Somatic Cell Detection and Quantification

### SomaScope Smart features & benefits

**LED Light Source** feature saves money based on long lifetime and limited need for gains adjustments or calibration.

**Dual Photomultiplier** ensures counting every cell and validation of repeatability. Reports a Q-value for every analysis.

**Flow Cell Cytometer** provides a low cost analyzer with industry leading accuracy, repeatability and durability.

**Auto Clean and Auto Zero** automatically maintain sample prep unit and flow cell. This reduces the need for technician time spent on prep and maintenance.

**Intuitive Software** allows for rapid implementation. Data is readily exported to create reports.

**DAPI Staining Solution** more accurately stains somatic cells. Delta's use of this stain is based on our commitment to providing safe products.

**The versatility** of the SomaScope Smart provides users with an accurate, durable analyzer that is used to measure individual raw cow samples or in-process preserved samples.

### Users

**Individual cow sample testers** such as producers, transporters, central dairy laboratories.

**In-process samples** can be tested for milk processors and cheese plants.

**Clinical testing** by veterinary labs for the detection of mastitis.

### Products

Cow, sheep, goat, buffalo, and camel milk.

Raw or preserved.



**The SomaScope** is FDA approved for somatic cell counts.

## LED Flow Cytometry



**The SomaScope Smart** is the first somatic cell counter to use a Light Emitting Diode (LED) as the light source. This provides quicker start-up, more repeatable measurements, and long life. This low cost solution removes the need for time consuming and error causing gain adjustments. The LED is expected to last for the life of the instrument.



**Delta Instruments pioneered** the use of Flow Cytometry for counting somatic cells. Since 1989, the cytometer has been to produce more accurate results with lower costs. Latest improvements allow for laminar flow of cells through the flow cell while the Dual Detection System ensures every cell is counted. The SomaScope Smart is linear from 0 to  $1 \times 10^7$  cells/ml.



## Accessories

We supply a full line of consumables and accessories to ensure optimal system performance.

## Specifications

**Products:** For fresh or preserved cow, sheep, goat, buffalo, and camel milk

**Measuring speed:** up to 120 samples per hour

**Measuring range:** From 0 to  $1 \times 10^7$  cells/ml

**Accuracy (CV\*):** < 10% relative to Direct Microscopic Somatic Cells Count

**Repeatability (CV\*):** < 3.5% at  $1 \times 10^5$  cells/ml 2.5% at  $3 \times 10^5$  cells/ml  
< 2% between  $0,5 - 2 \times 10^6$  cells/ml

**Linearity:** Up to  $1 \times 10^7$  cells/ml

**Sample volume:** 3 ml (replicates 1.5 ml)

**Sample temperature:**  $+40^{\circ}\text{C} \pm 2^{\circ}\text{C}$  ( $+104^{\circ}\text{F} \pm 35^{\circ}\text{F}$ )

**Carry-over:** < 1%

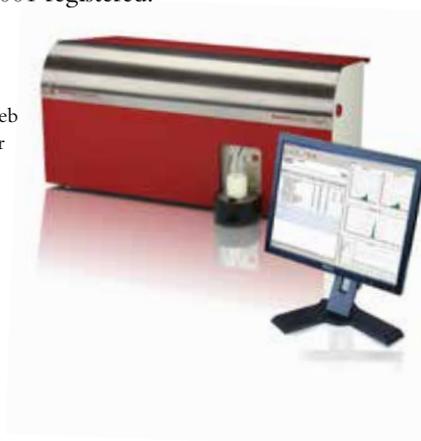
**System dimensions (D x W x H):** 18.50" x 29.13" x 14.57", (47cm x 74 cm x 37cm)

**Weight:** 62 lb (28 kg)

**Power supply:** 110V-240V, 50 to 60 Hz, 150 VA incl. PC

**Standards/approvals:** IDF 148-2, ISO 13366-2, NCIMS, FDA Form 2400, EMC directive 2004/108/EC, Low-voltage directive 2006/95/EC, **CE** The management system governing the manufacturing of this product is ISO 9001 registered.

\*CV, Coefficient of Variation is equal to the standard deviation divided by the average of the sample tested, times 100. Rose-Gottlieb for fat, Kjeldahl for protein, HPLC for lactose, and oven method for total solids.



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