



Auto M10

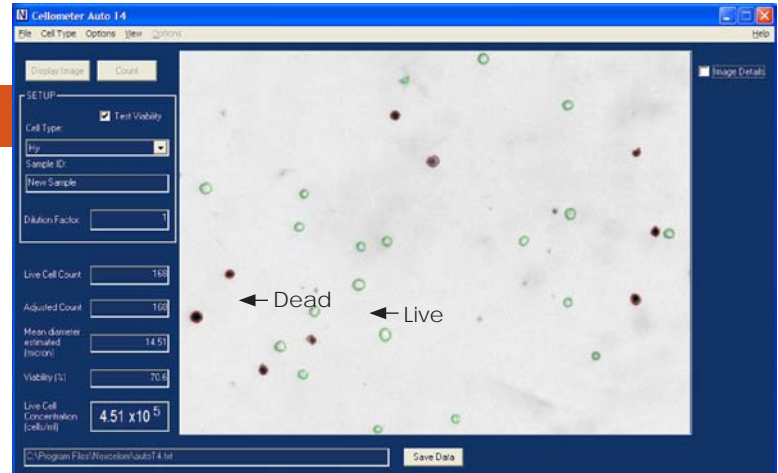
Auto T4 Plus

Auto T4

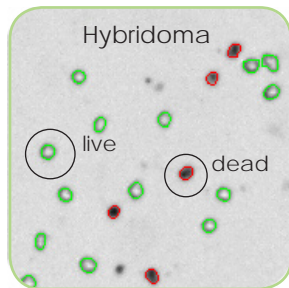
The Cellometer Auto line of image-based Cell Counters automates the tedious task of manual cell counting for improved accuracy and consistency, as well as offering dramatic increases in throughput. Unlike other automated cell counters, Cellometer provides fast results with simple-to-use software, easy setup, minimal sample volume and no on-board liquid handling or complex reagents.

## Product Highlights

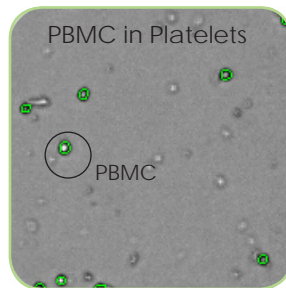
**Powerful, yet intuitive software:** Cellometer software is intuitive, yet powerful enough to instantly provide cell counts, cell sizes, concentration, and viability percentage. It can even identify and count cells in clusters, irregular shaped cells, and exclude cellular debris. Images of counted cells are displayed on screen and can be manually adjusted. Cellometer comes pre-configured for hundreds of cell types, and be customized for almost any type by the user or with Nexcelom's complimentary support.



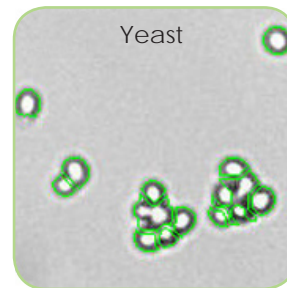
**Easy to use:** Utilizing advanced disposable counting chambers, only 20µL of sample is required and can be loaded with a standard pipette in seconds. No other liquid handling, special reagents, cleaning, or maintenance is required.



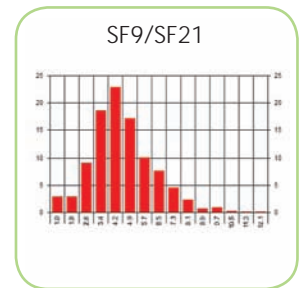
**Trypan Blue Viability:** In just 30 seconds, Cellometer not only determines cell count, sizes, & cell concentration, but also determines viability when cells are pretreated with Trypan blue. In this example, live vs. dead Hybridoma cells are identified on-screen and viability percentage is automatically calculated.



**Primary Cell Counting:** Cellometer's automatic measurement of cell sizes, makes it ideal for identifying cells of interest in a heterogeneous sample, such as quantifying PBMC's in platelets. Counted cells are also indicated on-screen for manual adjustment of counts if necessary, and irregularly shaped cells can be counted as well.



**Declustering:** Cellometer can be used to count cells as small as 2 microns, such as Yeast, while the declustering feature automatically distinguishes individual cells amongst clumps for more accurate results.



**Histogram Data:** Cell size vs. counts are visually graphed with the click of a button, making it easy to monitor size change in infected SF9/SF21 cells at various time points. Previous data can be overlaid on one histogram enabling rapid monitoring and reducing time required to culture cells.

Additional Applications and Cell Images available on [www.nexcelom.com](http://www.nexcelom.com)

To schedule a demo or to learn more about how Cellometer improves cell counting, contact us or visit [www.nexcelom.com](http://www.nexcelom.com)

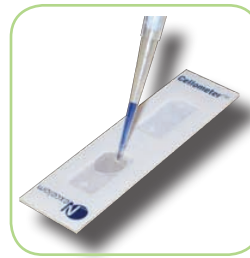
# Cellometer Auto Technical Specifications and Applications

Model	Optics	Magnification	Cell size range:	Concentration Range:
Auto T4	Locked Focus	Standard	10-50 microns	$1.5 \times 10^5 - 1.5 \times 10^7 / \text{mL}^*$
Auto T4 Plus	Adjustable	Standard	6-50 microns	$1.5 \times 10^5 - 1.5 \times 10^7 / \text{mL}^*$
Auto M10	Adjustable	High	2-12 microns	$5 \times 10^5 - 2 \times 10^7 / \text{mL}^{**}$

\*tested using 25 $\mu\text{m}$  beads \*\*tested using 5 $\mu\text{m}$  beads

<b>Instrument</b>	Weight: 9.0 lbs Dimensions: 3.5"x4.0"x12.0" Voltage: 100-240V AC 50-60Hz
<b>PC (Not included)</b>	2.4 GHz or Higher Windows XP Desktop or Laptop. 512 MB of RAM and USB 2.0 (Required)

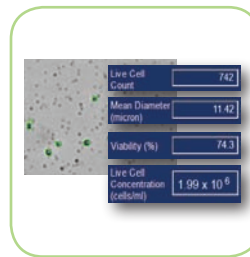
<b>Read Time</b>	<30 seconds
<b>Output Data</b>	Cell Images Live Cell Count Adjusted Count Mean Diameter (micron) Viability % (Trypan blue treated cells) Live Cell Concentration (cells/ml) Histograms (Frequency vs. Cell size) Histograms (multiple time point overlay)
<b>Imaging Features</b>	Saves Data & Images View Live Images Decuster Clumpy Cells Manual Adjustment of Cell count
<b>Sample volume required</b>	20 $\mu\text{L}$ , loaded into Disposable Counting Chambers
<b>Performance (CV%)</b>	2-5% Typical (vs. 8-20%+ Hemacytometer) Examples: Jurkat: 2.27% YAC-1: 3.17% H460: 5.57% SW620: 2.79%



Pipette 20 $\mu\text{L}$



Insert Slide



Get Data

## Example Cell Lines:

### REGULAR CELLS:

- PBMC
- CD4
- CD8
- Lymphocytes
- Macrophages
- Mouse Spleen
- Thymus
- Bone Marrow
- HeLa
- MCF7
- MDA
- MNT1
- ARPE-19
- Hybridoma
- Cos7
- Jurkat
- CGN
- U87
- Stem Cells
- Fibroblast
- EL4
- K562
- Vero
- HEK293T
- CHO
- SF9

### IRREGULAR CELL SHAPE:

- Lymphoblastoid
- Activated T-Cells
- RD

### LARGE CELL SIZE VARIATION

- Dictyoslelium

### HETEROGENEOUS POPULATIONS

- Fresh PBMC with platelets
- Fresh PBMC with lysed RBC
- Mouse Lymphocytes with large tissue debris
- Epithelial & Lymphocytes

### SMALL CELLS

- Yeast
- Algae
- Platelets

### + 100's OF OTHERS

We are constantly updating and adding cell line parameters to the Cellometer software. For the complete list of cells and images, please visit our website [www.nexcelom.com](http://www.nexcelom.com).

Cellometer can be configured for virtually any cell type either by the user, or with complimentary support from Nexcelom.

## Summary of Benefits:

**Simple to use:** Enables fast setup, and is easily shared amongst several users

**Small Sample Volume:** Only 20 $\mu\text{L}$  of sample required

**Flexible:** Cell size and morphology parameters for 250 cells are preloaded, custom data can be loaded

**More data:** Generates cell size histograms, viability percentage, and concentration

**Improved Accuracy:** Eliminates user-to-user variability & reduces chance of errors

**Increased Throughput:** Obtain complete count of cells in under 30 seconds

**Safety:** Eye strain is eliminated and there's no risk of broken glass



[www.nexcelom.com](http://www.nexcelom.com)