

# Cellometer Selection Guide

## Which Cellometer is Right for Me?

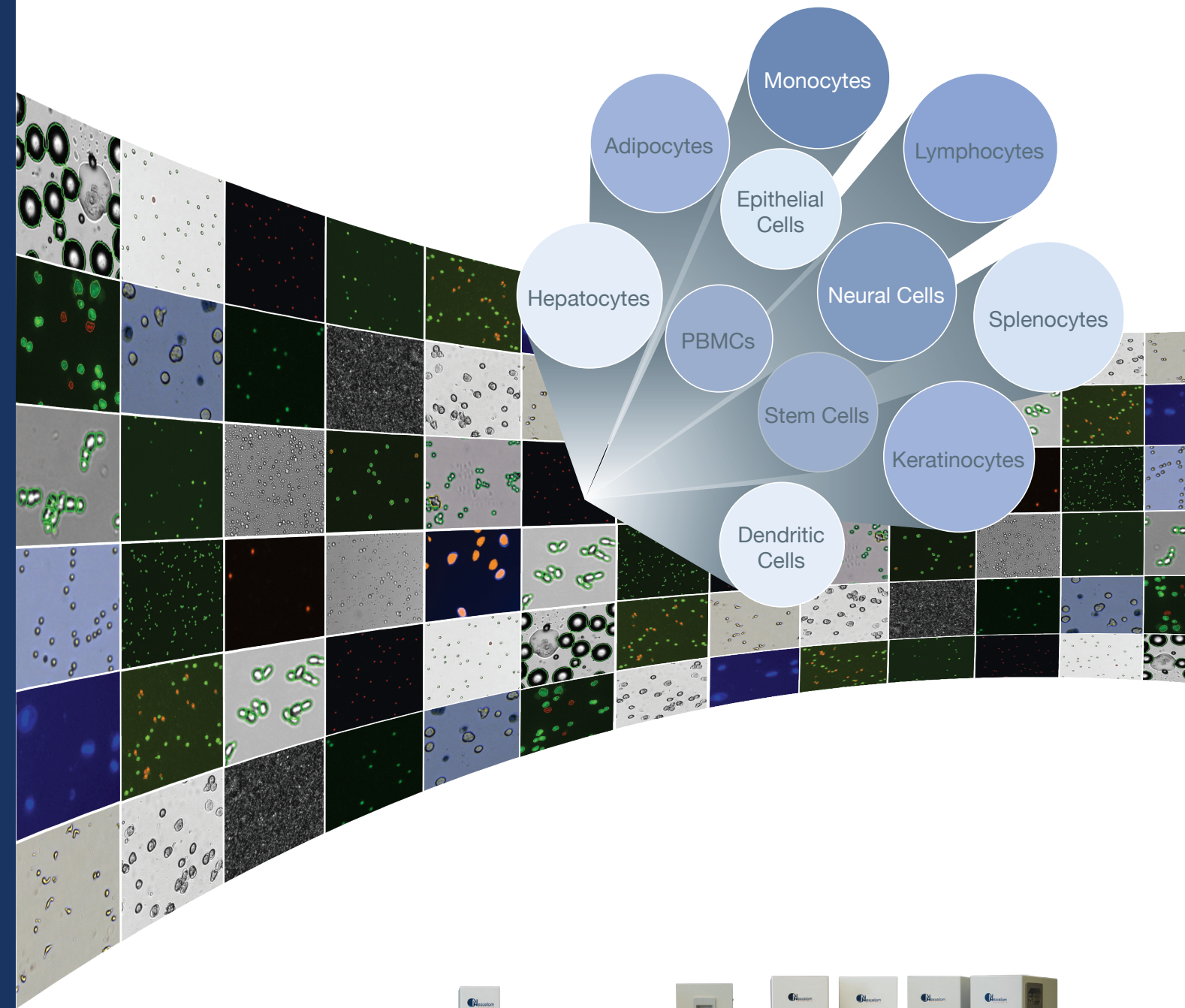
**Cellometer®**  
Simply Counted



Features	Automated Cell Counters					Image Cytometers				
	Mini	Auto T4	Auto 1000	Auto 2000	X4 (10x)	X1	X2	K2	Vision CBA	Vision CBA (10x)
<b>Cell / Sample Type</b>										
<b>Objective Magnification</b>	4X	4X	4X	4X	10X	10X	10X	4X	5X	10X
Cell Line	•	•	•	•				•	•	
Cultured Primary Cells	•	•	•	•				•	•	
Algae					•					•
Platelets					•		•			•
Low Concentration Cell Lines				•				•	•	
Yeast (Clean Sample)					•	•	•			
Primary cells (Messy Sample*)				•				•	•	
PBMCs, Splenocytes, Stem Cells				•				•	•	
Yeast (Messy Sample)							•			•
Hepatocytes								•	•	
Adipocytes***				•				•	•	
<b>Cell-Based Assay **</b>						•	•	•	•	•
Apoptosis (Annexin V-FITC/PI)								•	•	•
Apoptosis (Caspase Activity)								•	•	•
Autophagy (CytolD-green)									•	•
Cell Proliferation (CFSE)									•	•
Cell Cycle (PI)						•	•	•	•	•
GFP Transfection				•			•	•	•	•
RFP Transfection								•	•	•
Mitochondrial Potential (JC-1)									•	•
Multi-drug Resistance (ABC Transporter)									•	•
Surface Marker Analysis									•	•
Vitality (Calcein-AM/PI)							•	•	•	•
<b>Image Cytometry**</b>									•	•

\* A messy sample is a heterogeneous sample containing unwanted cell types, such as red blood cells, in addition to the cells of interest.  
 \*\* FCS Express 4 license must be purchased in order to perform Cell Based Assay or Image Cytometry analysis  
 \*\*\* Cellometer CHT4-PD300 slides are required for cells greater than 80µm in diameter

**Cellometer®** Cell Counters & Cell Analysis Systems  
Simply Counted



## Support & Training

Give us a call 978-327-5340.

Experienced Nexcelom Applications Specialists are available 8:30am to 5:30pm EST to assist with selection of a Cellometer.

### Cellometer® Online Training

Online real time training session on Cellometer instrument operation, sample preparation and applications.

### Cellometer® In-Lab Training

Onsite training session on Cellometer instrument operation, sample preparation and applications.

### Monthly Cellometer® User Training Webinar

Join us for our technical training webinar held on the fourth Friday of every month.

Learn more and sign up at [www.nexcelom.com/support](http://www.nexcelom.com/support)



For more information, visit [www.nexcelom.com](http://www.nexcelom.com)

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Innovation and Expertise in the Science of Cell Counting

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

# Simply Counted.

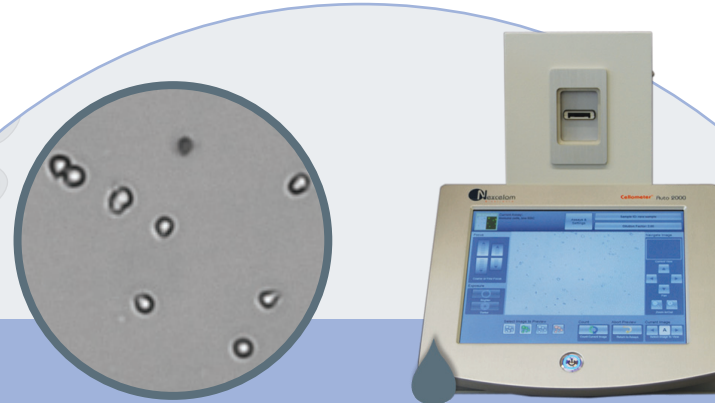
## Which Cellometer is Right for Your Research?

# Move beyond cell counting to detailed cell analysis.



Bright Field Cell Counters

- Mini** - The most affordable option for accurate, automated cell counting and trypan blue viability
- Auto T4** - Automated concentration and trypan blue viability of cell lines ... even clumpy cells
- Auto 1000** - All-in-one, touch-screen instrument for accurate, automated trypan blue viability



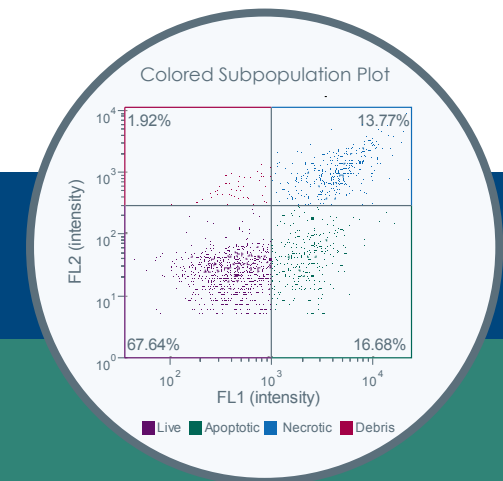
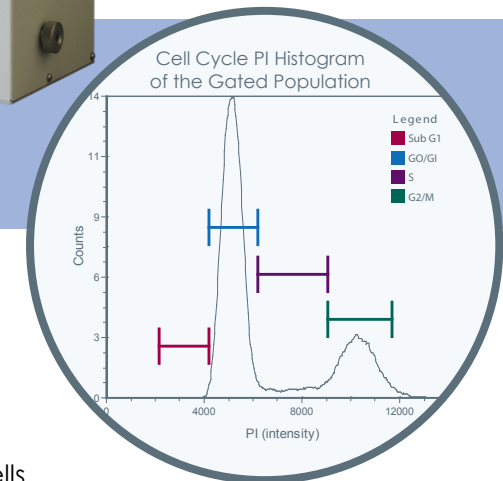
Cell Viability Counter

- Auto 2000** - Viability of primary cells in complex samples containing debris and red blood cells
  - PBMCs
  - Stem Cells
  - Trypan Blue Viability - Cell Lines
  - Splenocytes
  - & Other Primary Cells



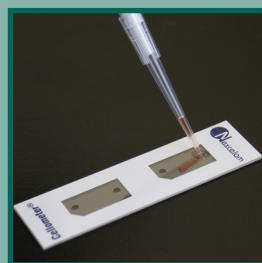
Image Cytometers

- Auto X4, X1 / X2** - Optimized for brewing yeast, wine yeast, platelets, algae and other small cells
- K2** - Cell counting and analysis for hepatocytes, stem cells, splenocytes, tumor suspension and other primary cells
- Vision CBA** - Advanced imaging for hepatocyte, adipocyte, and complex yeast analysis. Simple, 20µl cell-based assays with flow-like data output



## ➔ Seeing is Believing

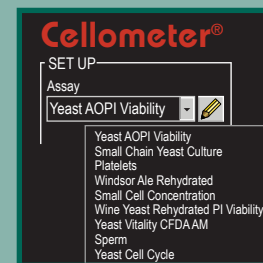
### How it Works



Pipette 20 µl of Cell Sample



Insert Counting Chamber



Select Assay & Click Count

Assay: Yeast AOPI Viability	
Cell Type F1: Yeast AOPI Viability FL1	
Cell Type F2: Yeast AOPI Viability FL2	
Sample ID: Yeast AOPI Viability-2	
Dilution: 4.00	
<b>Count</b>	<b>Concentration</b>
Total: 1148	5.00x10 <sup>7</sup> cells/mL
Live: 928	4.05x10 <sup>7</sup> cells/mL
Dead: 220	9.50x10 <sup>6</sup> cells/mL
<b>Mean Diameter</b>	<b>Viability: 81.0%</b>
3.8 micron	
4.0 microns	
2.6 micron	

Get Results

**Sample Adjustment**

Measured Concentration (cells/ml) 1.15e+006

Original Sample Volume (ml) 10.0

Total Cell Number in Sample 1.15e+007

Target Concentration (cells/ml) 1.00e+006

Target Number of Cells 2000

Sample Adjustment

Add diluent amount: 1.49 ml.

Print with report

Buttons: Apply Change, Print, Done

**Sample Adjustment Calculator** to determine sample volume for desired cell number / concentration.

## ➔ About Nexcelom

**Innovative Products** :Nexcelom Bioscience LLC began in 2003 with the CP2 to assist with manual cell counting. Since then, Nexcelom has expanded our product range to accommodate researches analyzing small cells, primary cells and researchers looking to perform cell-based assays.

**Proven Performance**: From breweries performing yeast fermentation monitoring to specialized pharmaceutical labs analyzing hepatocytes for toxicology studies, researches in a wide range of industries have integrated Cellometer instruments into their laboratory testing.

**Continued Growth and Innovation**: Nexcelom will continue to develop novel products, including enhanced instrumentation and specialized reagents, to meet emerging customer needs.