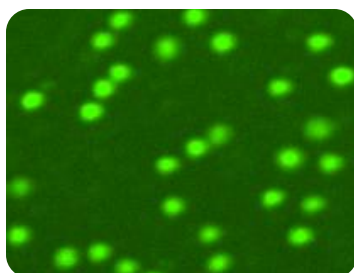
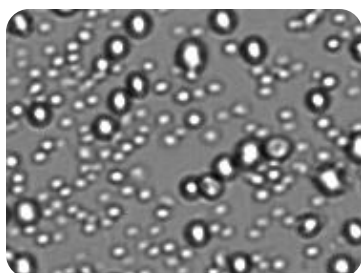


# Cellometer® Auto X4

Fluorescence assisted automated cell counter

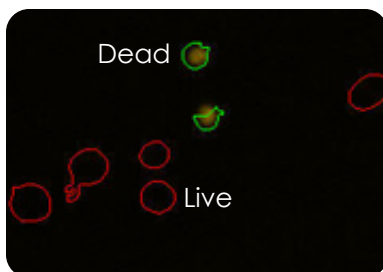
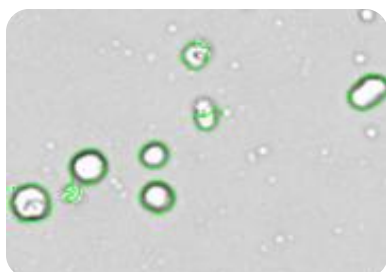


**Ideal for fast, accurate counting of primary samples and cell line viability measurements**



**Fluorescence imaging capabilities improve primary cell counting**

X4 acquires both brightfield and fluorescence images of cell samples and positively counts nucleated cells in fluorescence mode



**Dual imaging mode for fast and reliable viability detection**

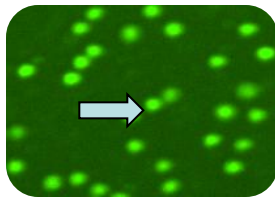
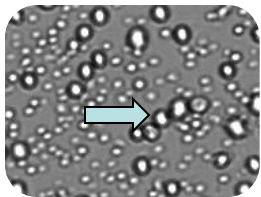
For cell lines, total cell count and viability with trypan blue can be acquired using the brightfield imaging mode. Viability with fluorescence dyes such as PI or DAPI can be determined using the fluorescence imaging mode

**Cellometer Auto X4 Features:**

- Brightfield mode for counting cell lines
- Fluorescence imaging mode ensures accurate results when counting samples with debris
- Interchangeable optics modules available for use with an array of fluorescence stains

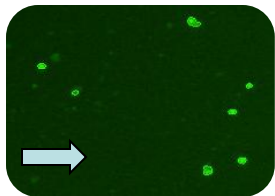
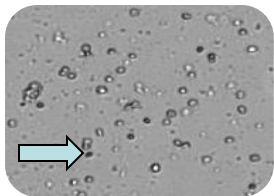
**Auto X4 is ideal for:**

- Live/total cell counts of primary cells such as:
  - PBMCs
  - WBCs in whole blood
  - Bronchoalveolar lung lavage (BAL)
  - Spleenocytes
  - Other digested tissue samples
- Counting and determining cell line viability using:
  - Trypan blue
  - Fluorescent stains such as propidium iodide, DAPI and more



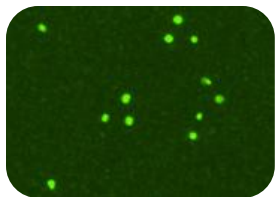
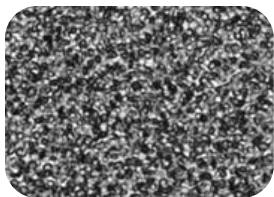
### PBMCs.

After treating with acridine orange, only PBMCs are counted in fluorescence mode. RBCs and platelets are ignored



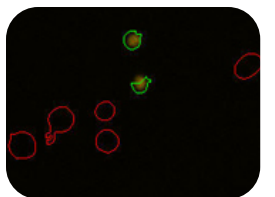
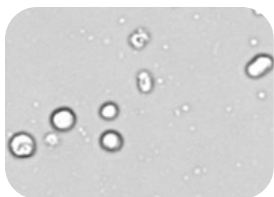
### Digested tissues.

Cell debris and undigested tissue are unseen in fluorescence mode to ensure accurate counting results



### Blood samples.

Nucleated cells are easily counted in blood samples such as cord blood, bone marrow, or whole blood with no need to lyse RBCs



### Viability with fluorescence dyes.

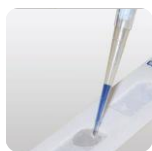
Fluorescence stains such as propidium iodide can be used to determine cell line viability

### Applications:

- Live/total PBMC count
- WBCs in whole blood, cordblood or bone marrow
- Spleenocytes
- Other digested tissue samples
- Bronchoalveolar lung lavage
- PI Viability
- DAPI stained cells
- Cell line counting

### Output data:

- Live cell count/concentration
- Dead cell count
- Viability %
- Cell size data & histogram
- Cell images
- Excel export



### Simple to use.

Simply pipette 20uL of sample into a disposable counting chamber, insert, and click 'Count'. No maintenance or system reagents required.



### Cell diameter information.

Cell size measurements for each cell and size distribution histograms are automatically generated.



### Easy data analysis.

With the click of a button, all results and images can be saved, exported to Excel or printed.



### Interchangeable optics modules.

A variety of fluorescence stains can be detected to expand X4's versatility. Modules are available for a variety of fluorophores.

Part Number	Description
Cellometer Auto X4	Cellometer Auto X4 fluorescence/brightfield cell counting instrument. Includes instrument, software, power supply, and one Fluorescence Optics Module.
Laptop controller	Laptop computer with Cellometer software pre-loaded

Available Fluorescence Optics Modules:			
Module	Part Number	Typical Dyes	Excitation/Emission
	XB-535-401	Acridine Orange (AO), Calcein am	475nm/535nm
	XB-595-501	Propidium iodide (PI), Ethidium bromide	525nm/595nm
	XB-695-601	Allophocyanin	630nm/695nm
	XB-450-301	DAPI	375nm/450nm

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