

PRODUCT BULLETIN

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



Nexcelom



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:

Cellometer[®] Auto X4

Fluorescence assisted automated cell counter

•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









Ø









Simple to use.

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



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



Cell diameter information.

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



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	o 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	Allophcocyanin	630nm/695nm	
	XB-450-301	DAPI	375nm/450nm	



To learn more or schedule a demo:

www.nexcelom.com support@nexcelom.com (978) 327-5340 Nexcelom Bioscience LLC 360 Merrimack Street Building 9 Lawrence, MA 01843 www.nexcelom.com

1001049 Rev. B