

## Nexcelom Cellometer X1 & X2 Image Cytometer

Optimized for brewing yeast, wine yeast, platelets and other small cells.

Rating: Not Rated Yet

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Manufacturer [Nexcelom](#)

### Description

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## Description

### Cell Counting Made Simple

The Cellometer X2 utilizes bright field imaging, fluorescent imaging and pattern-recognition software to quickly and accurately identify and count individual cells. Cell count, concentration, diameter, and % viability are automatically calculated and reported.

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### The Cellometer X2 Allows Hemacytometer Users to:

- Increase throughput
- Improve consistency
- Ensure all data is correctly captured
- Count difficult cells (clumpy, irregular-shaped)
- Eliminate judgment errors, miscounts, and user-to-user variability

### Fluorescent Analysis

Fluorescent dyes that stain DNA can be used to identify nucleated cells in a mixed cell population. Acridine orange (AO) is a nuclear staining (nucleic acid binding) dye permeable to both live and dead cells. It stains all nucleated cells to generate green fluorescence when imaged with the Cellometer X2. Because mature mammalian red blood cells don't contain nuclei, only mononuclear cells produce a fluorescent signal. Fluorescent-positive nucleated cells are easily counted. There is no need to lyse red blood cells, saving time and eliminating an extra sample preparation step.

## Fluorescent Viability Determination

Use of a fluorescent dye, such as propidium iodide (PI), is highly recommended for accurate viability analysis of cell samples containing debris. Propidium iodide (PI) is a nuclear staining (nucleic acid binding) dye that enters dead cells with compromised membranes. It stains all dead nucleated cells to generate red fluorescence. Because the Cellometer X2 can count dead cells in the red fluorescence channel, there is no interference from debris and live cells.

## Features

### Features & Benefits of the Cellometer X2

- Yeast Counting in
- Fluorescent Viability Determination
- 1-Step Yeast Concentration & Viability
- Automated Platelet Counting in Whole Blood
- Exclusion of Debris & Size-Based Counting
- View, Print and Save Cell Images and Data
- Cellometer X1 vs. X2
- Counting Chambers - No Washing or Contamination
- Dedicated On-line and On-site Support
- Automated Fluorescent Cell Counting in

## Specifications

The Cellometer X2 Image Cytometer automatically generates a cell size histogram based on cell diameter.

The minimum and maximum cell diameter settings can be optimized to count specific cells in a sample.

View, Print, and Save Cell Images and Data Tables

Bright field and fluorescent counted images of mouse splenocytes stained with acridine orange.

View bright field images to check cell morphology. View fluorescent counted images to confirm exclusion of debris or unwanted cell types and correct counting of cells within clumps.

### Export Data

Easily **Export** to Excel for additional data formatting or sharing. Images and data tables can be pasted into PowerPoint presentations or submitted for publication.

### Save Data

Easily **Save** data and images to a network or local computer.

**Print** directly from the software screen. The standard printout displays live, dead, and total cell count and concentration, % viability, and cell images. Cellometer X1 vs. X2

Counting Chambers: No Washing or Contamination Cellometer Disposable Counting Chambers consist of two independent enclosed chambers with a precisely controlled height. Cell suspension of 20 microliters is loaded into the chamber using a standard single channel pipette. The chamber is inserted into the Cellometer cell counter and the cells are imaged. This simple sample loading and analysis method is ideal for fragile cells. The disposable Cellometer Cell Counting Chambers offer several key advantages:

- Time savings no washing
- No risk of cross-contamination
- Reduced biohazard risk to users
- Controlled sample volume
- Most affordable automated counting consumables

Dedicated On-line and On-site Applications Support Experienced **Nexcelom Technical Support Specialists** are available from 9am to 5pm EST for phone and on-line support and can assist with:

- Creation of new cell types
- Optimization of counting parameters
- Troubleshooting
- Training of new users
- Installation of a new Cellometer X2 Cell Counter

The **help button** at the bottom right of the Cellometer X2 software screen gives users instant access to:

- Software features and instructions
- On-line tutorials and training videos
- Submission of a Support Ticket

Clicking "**Submit a Support Ticket**" launches a convenient on-line form that is submitted directly to Nexcelom Technical Support

- X2 instrument information fields are automatically populated
- Images are easily attached for troubleshooting and applications support
- A Nexcelom Specialist can assume remote control of the Cellometer X2 Image Cytometer for troubleshooting and training

**Nexcelom Field-based Applications Specialists** are also available for:

- On-site demonstrations
- Training
- Troubleshooting
- Technical Seminars

All Nexcelom Applications Specialists are 100% focused on image-based cell concentration & viability and cell-based assays using Cellometer Image-Based Cytometry

### Reviews

There are yet no reviews for this product.