DeNovix®

CellDrop™

Automated Cell Counter

Count Cells Without Slides

- **Sustainable -** Reduce Costs and Plastic Use
- **Trusted -** Used by Thousands of Researchers Worldwide
- **Optimized -** Widest Range of Sample Types
- **Flexible -** DirectPipette™ (No Slides), Reusable or Plastic Slides

Why Do Scientists Choose CellDrop™?

Unmatched Cell Counting Performance
Fast, Accurate and Easy to Use - Counts & Viability in Under 10 Seconds

Improve Lab Sustainability and Reduce Costs
Unique DirectPipette™ Technology Removes the Requirement for Slides

Measurement Mode Flexibility
DirectPipette™, Reusable or Single-Use Slide Modes

Dual Fluorescence and Brightfield Imaging
Increased Accuracy for Cultured Cells, Primary Cells, Nuclei and More

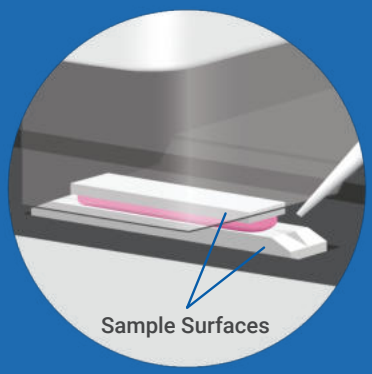
DirectPipette™ Technology

CellDrop's patented design replaces hemocytometers and plastic slides with an innovative wipe clean, variable height chamber.

- Fast, reliable workflow
- Use as little as 2.5 µL of sample
- Variable chamber height enables the widest cell density range

Load Cell Suspension into Sample Chamber

Count, Analyze and Wipe Clean in Seconds



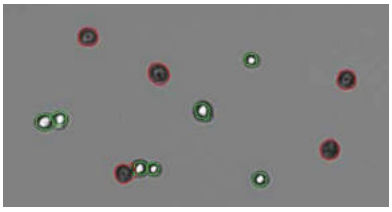
A sample chamber is formed between **two permanent, parallel, optical grade sapphire surfaces.** The sample can be loaded from either side and is held in place by surface tension.

Slide Mode

- **Single-Use Plastic Slides:** for hazardous samples or workflows that require sample containment
- **Reusable Slides:** environmentally-friendly alternative to plastic slides when sample containment is required

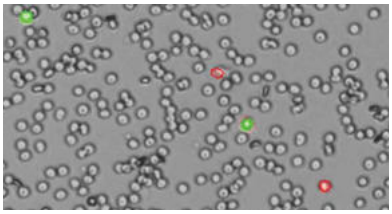
Models and Applications

	Fluorescence & Brightfield	Brightfield Only
Standard Magnification *4X Objective* *4 - 400 µm Cells*	**CellDrop FLi** Tissue Culture Primary Cells Isolated Nuclei Hepatocytes Organoids GFP Fixed Samples Plant Cells Insect Cells	**CellDrop BF** Tissue Culture Low Debris
High Magnification *10X Objective* *2 - 20 µm Cells*	**CellDrop FLxi** Stem Cells Yeast Viability Other Small Cells Apoptosis Yeast Vitality	**CellDrop BFx** Yeast Total Count Low Debris Other Small Cells



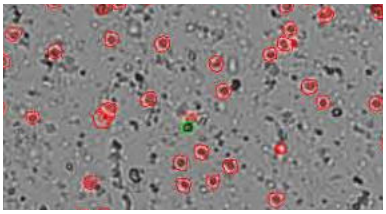
Tissue Culture

Viability staining of tissue culture with Trypan Blue or Erythrosin B.



Primary Cells

Easily differentiate PBMCs from non-nucleated RBCs and debris with AO/PI.



Nuclei

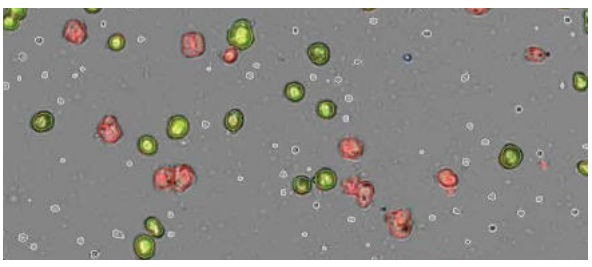
Count isolated nuclei and intact cells from either fresh, frozen or fixed samples.

Harnessing Machine Learning for Complex Samples

Counting complex sample types such as hepatocytes and organoids has long been challenging for traditional counting algorithms due to their internal structures, irregular shapes and sizes, debris, and more. DeNovix scientists took a revolutionary approach to this challenge, using machine learning to develop robust models for reliably automating these counts.

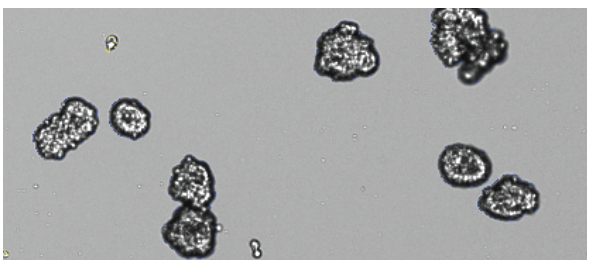
Hepatocytes

In addition to live / dead hepatocyte densities and viability, the Hepatocyte application also reports the number of lymphocytes, free nuclei, and debris objects in a sample.



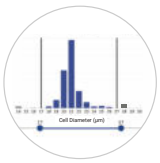
Organoids

The application is trained to provide a count and size distribution of organoids. Dissociated objects are also reported, allowing for quick and simple quality control.

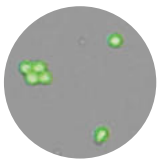


EasyApps™ Software: Cell Counting Made Easy

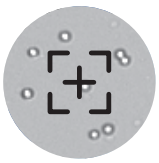
DeNovix software is designed by life scientists, for life scientists. Optimized apps make CellDrop simple to use and ensure that cell counts are standardized and reproducible across all members of the lab.



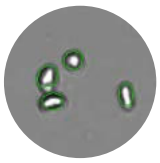
Cell Size Gating



Advanced Declustering



Autofocus



Irregular Cell Detection

Flexible Data Export

GxP Compliance Ready

Specifications

Dynamic Range	7 x 10^2 - 2.5 x 10^7 cells / mL (FLi & BF) 4.3 x 10^3 - 2.1 x 10^8 cells / mL (FLxi & BFx)
Chamber Height	50, 100 or 400 µm
Sample Volume	5, 10 or 40 µL
Measurement Speed	3 Seconds - Brightfield 8.5 Seconds - Dual Fluorescence
Brightfield Illumination	LED 530 nm
Fluorescence Illumination	LED 470 nm
Emission Filters	525 nm +/- 25 nm 645 nm +/- 37 nm

Connectivity	Wi-Fi, Ethernet, HDMI, 3 USB Ports
Footprint (LxWxH)	37 x 21 x 18 cm
Weight	4.4 kg
Certifications	UL/CSA, CE, FCC, Japan CAB
Warranty	2 Years
Patents	denovix.com/patents
Colors	

View All Specifications

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