

Corning® Cell Counter



Laboratory Equipment & Supplies



The new Corning® Cell Counter is the first automated cell counter that combines the best of both worlds and is:

- **Fast** – thanks to its online image processing
- **Accurate** – thanks to its cloud-based machine learning algorithm
- **Low-cost** – no consumables required, ships with a grid-less reusable glass counting chamber
- **1-year warranty**

Specifications

	Mammalian	Organoids
Counting range	5x10 ⁴ to 1.0x10 ⁷ cells/mL	5x10 ⁴ to 1.0x10 ⁷ cells/mL
Counting range	4 to 70 µm	20 µm to 200 µm*
Measurement time	<3 sec.**	<3 sec.**
Compatibility	Reusable and disposable counting chambers: 0.1 mm	Reusable and disposable counting chambers: 0.1 or 0.2 mm
Sample volume	10 µL	10 µL or 20 µL chamber permitting
Weight	1.0 kg	1.0 kg
Field of view	1.5 x 1.5 mm	1.5 x 1.5 mm
Magnification	200X	100X
Image resolution	2048 x 1536	1536 x 1536
Exported formats	PNG	PNG
Light source	LED	LED
Camera	5 MP CMOS	5 MP CMOS
Unit dimensions (L x W x H)	122 x 122 x 125 mm	122 x 122 x 125 mm
Operating environment	5°C to 40°C, 20% to 95% humidity	5°C to 40°C, 20% to 95% humidity
Algorithm version	-	Version 1 irregular morphology Version 2 spherical objects

*Size limits depend on dimensions of counting chamber, user can set limits in the application.

**Measured using a 73 Mbps download speed and a 20 Mbps upload speed. Actual speed can vary depending on the internet connection.

Cat. No.	Description	Qty/Cs
6749	Corning® Cell Counter	1
480200	0.1 mm Corning® Counting chamber	1
480201	0.2 mm Corning® Counting chamber	1
6749-OC	Organoid counting software with 0.2 mm counting chamber	1

Three-second Cell Counts

The Corning® Cell Counter uses cloud-based image processing to perform a single cell count in less than three seconds. This is much faster than most automated cell-counting systems.

Higher Accuracy

The Corning® Cell Counter uses a state-of-the-art image analysis software to ensure optimal accuracy. Trypan Blue can be added (Figure 1) to detect cell viability. The Corning® Cell Counter can also detect clusters of cells, which leads to accurate cell counts of “highly concentrated samples” (up to 1 x 10⁷ cells/mL; Figure 2).

Versatile

The cell counter's organoid counting software extension offers users the ability to collect three-dimensional data including orgs./mL and surface area outputs.

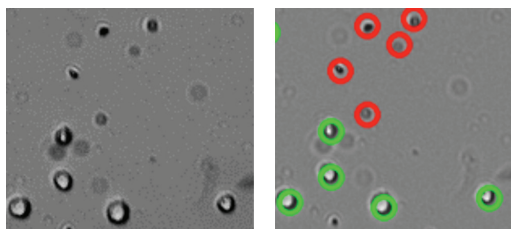


Figure 1. Dead cells stained with Trypan blue are detected by the image analysis algorithm. Red circles represent dead cells, green circles represent live cells.

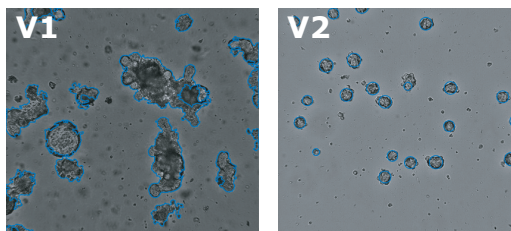


Figure 2. The image analysis algorithm is optimized for irregular 3D morphologies (V1) and spherical objects (V2)