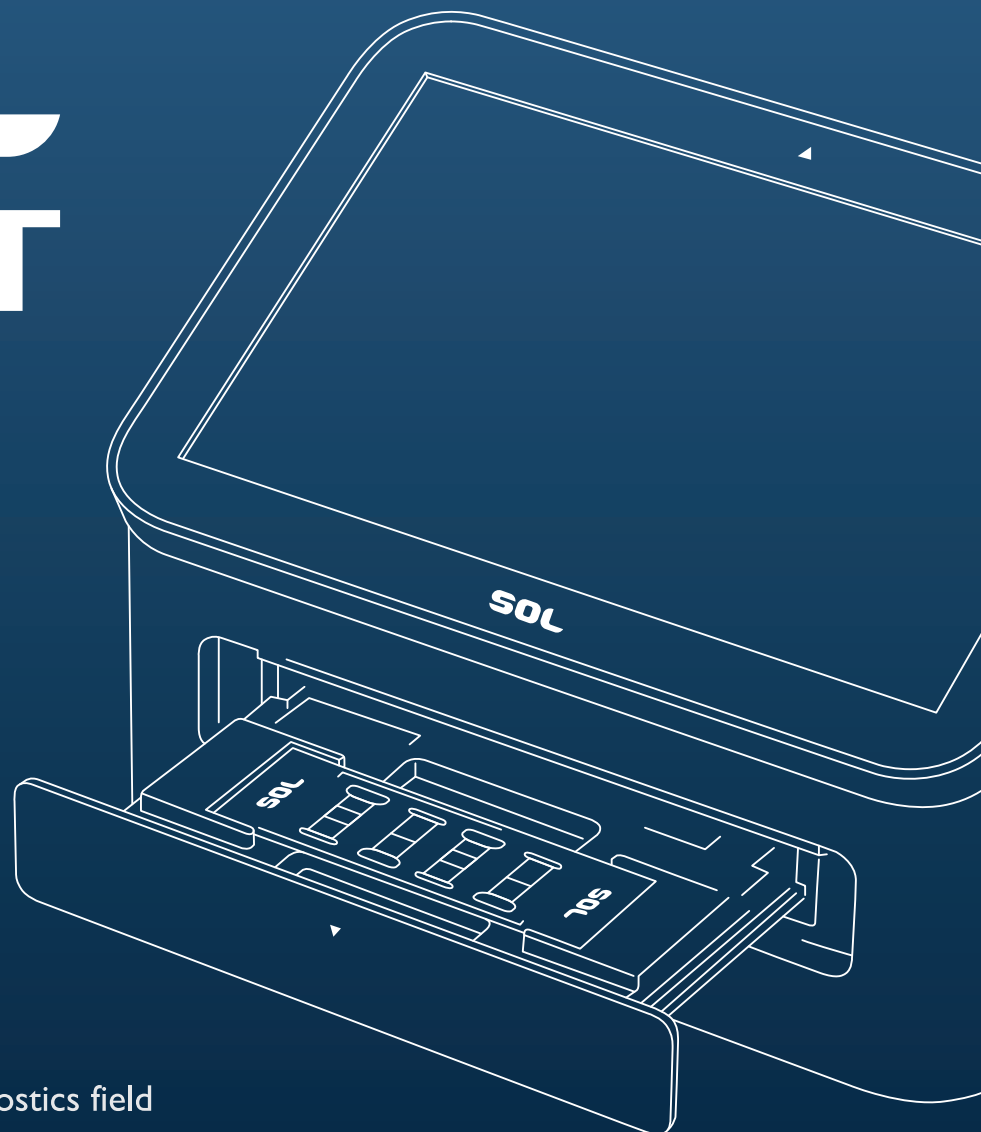


THE EASIEST CELL COUNTER YET

Cell counting is never effortless,
but SOL COUNT can make it easier.

SOL COUNT



Meeting unmet needs in the diagnostics field

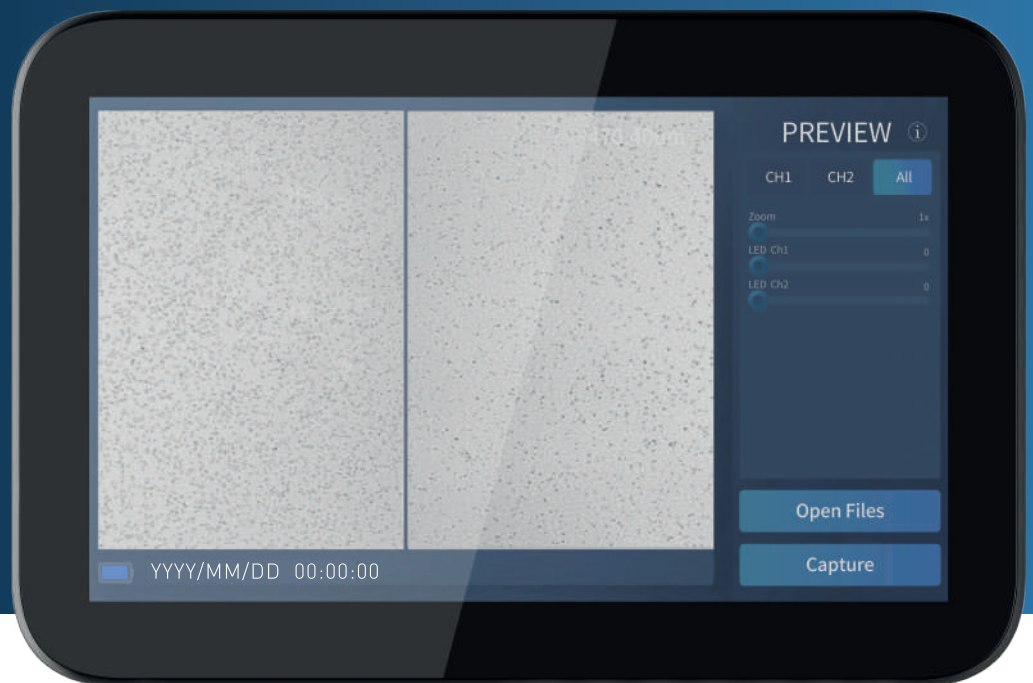
SOL COUNT



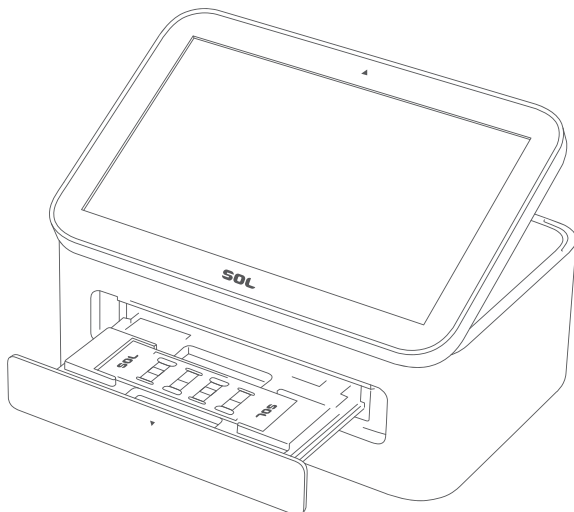
SOL Inc. is a disruptive bio-tech company with semiconductors for lens-free sensors.

Most laboratories and research centers continue to be challenged to provide high-quality services in the face of increasing demand for and escalating costs of advanced study.

SOL COUNT
CAN HELP
ADDRESS
THESE
CHALLENGES.



SOL COUNT OVERVIEW



SOL COUNT Automated Cell Counter is a new technology that can automatically count multiple cell types simultaneously. SOL, the company name, also means cell. SOL COUNT Automated Cell Counter utilizes lens-free LED optics and CMOS sensing technology to quickly and accurately measure the total number of cells, live and dead cells, and easily store and transfer the data. Furthermore, two kinds of cells can be measured at the same time.

The disposable four-channel cartridge makes it easy to use and more cost-effective than any competitor. In addition, SOL COUNT Automated Cell Counter is a compact, portable device that can be installed in a mobile lab.

SOL COUNT IS DESIGNED FOR:



FAST RESULTS

From loading to cell count results, 10 seconds a channel



EASE of USE

Prepare sample ▶ load ▶ get results



MULTI-CELL COUNTING

2 sample/1 shot ▶ 2 results at the same time



ACCURACY

$R^2 = 0.99$ (Compared Manual)



CONNECTIVITY

Wi-Fi, ethernet

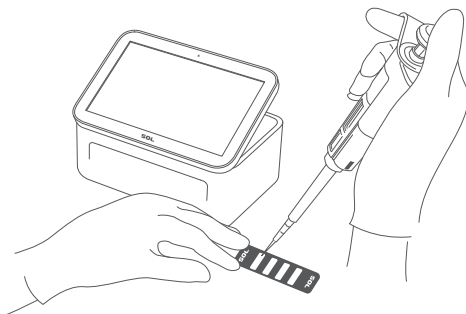


PORTABLE

Light weight, chargeable

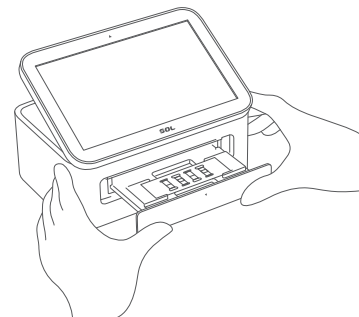
The Testing Process in 4 Easy Steps

STEP 1



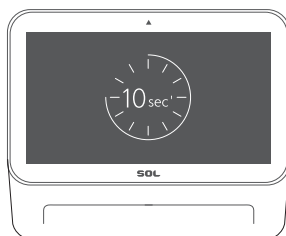
Load 10ul of cells in a cartridge with a pipette
(45° is the optimal angle)

STEP 2



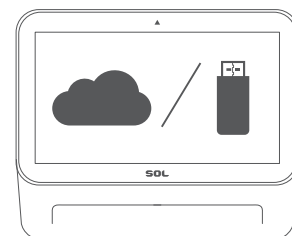
Push and open cartridge tray,
then place the cartridge

STEP 3



View results within seconds per channel

STEP 4



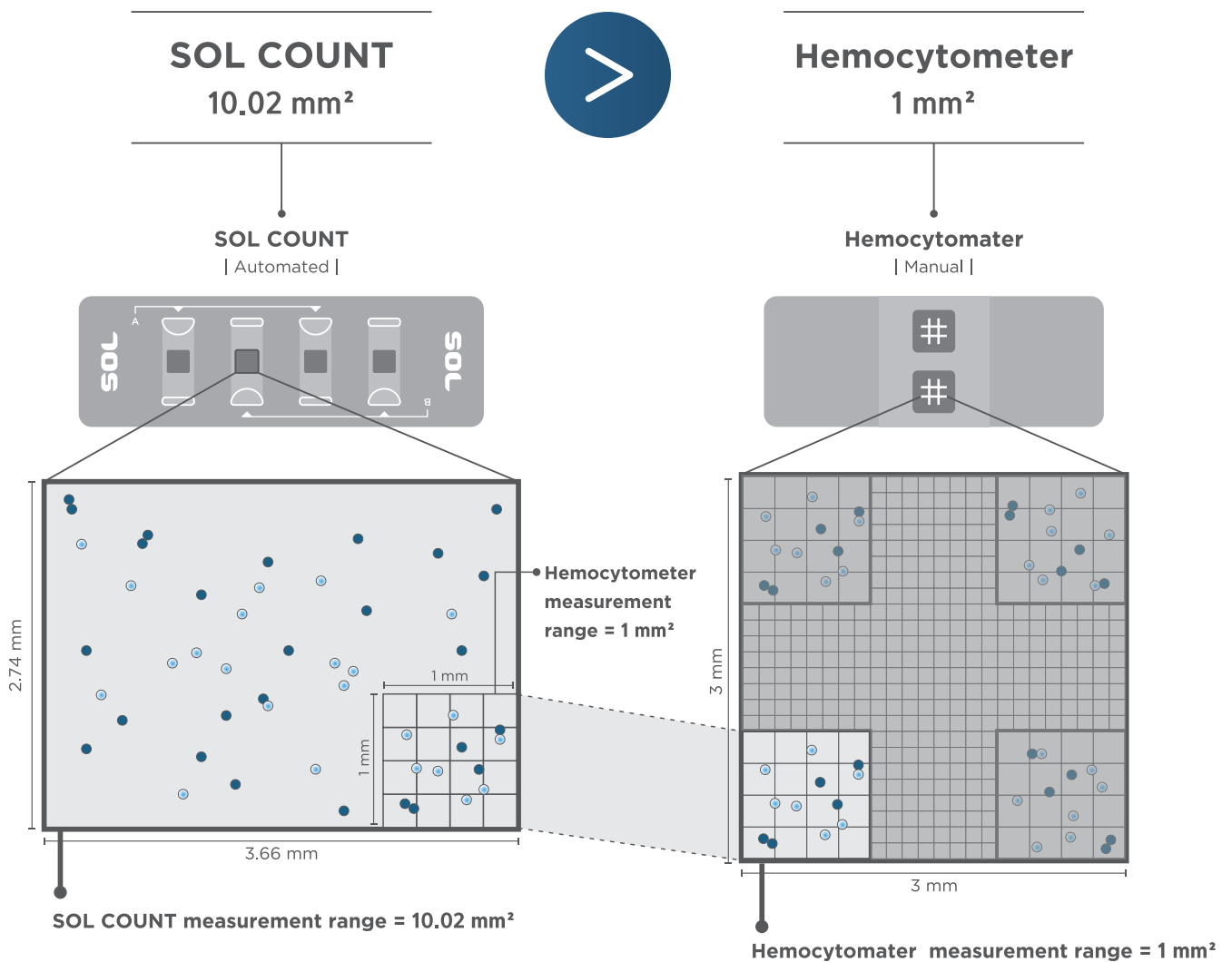
Transmit results to Cloud server and USB



SOL COUNT Compared with Hemocytometer (Manual)

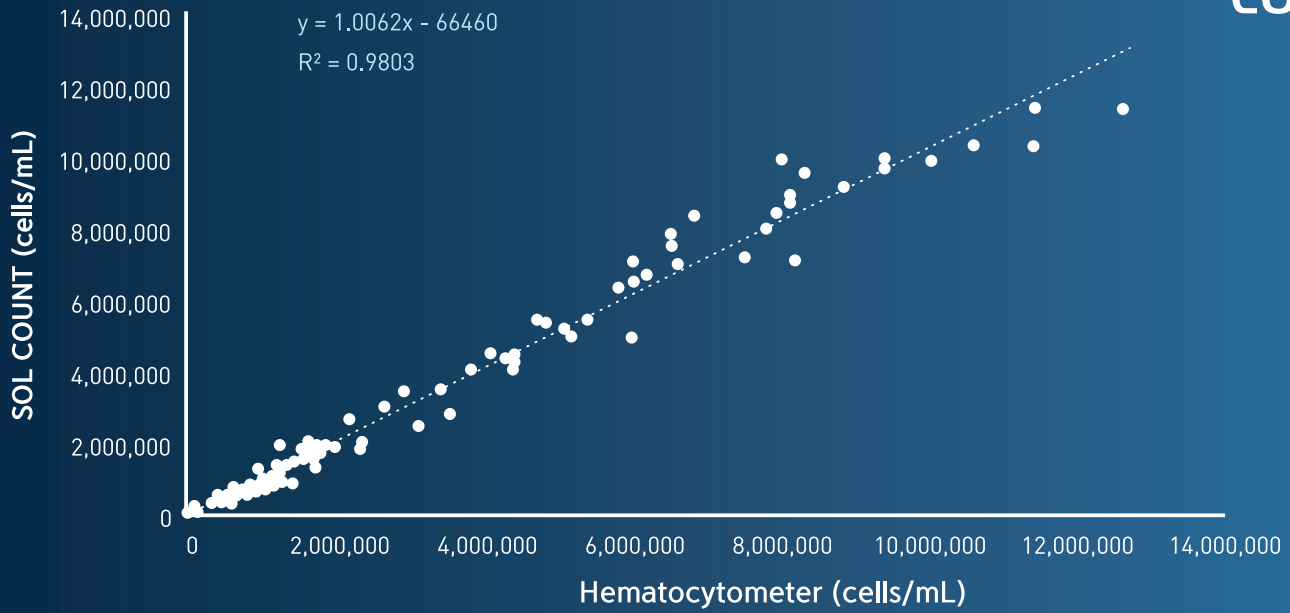
The cell counting area of SOL COUNT has a measurement range that is 10 times larger than that of the hemocytometer, thus improving the accuracy of cell counting.

Comparison of Cell Counting Measurement Range



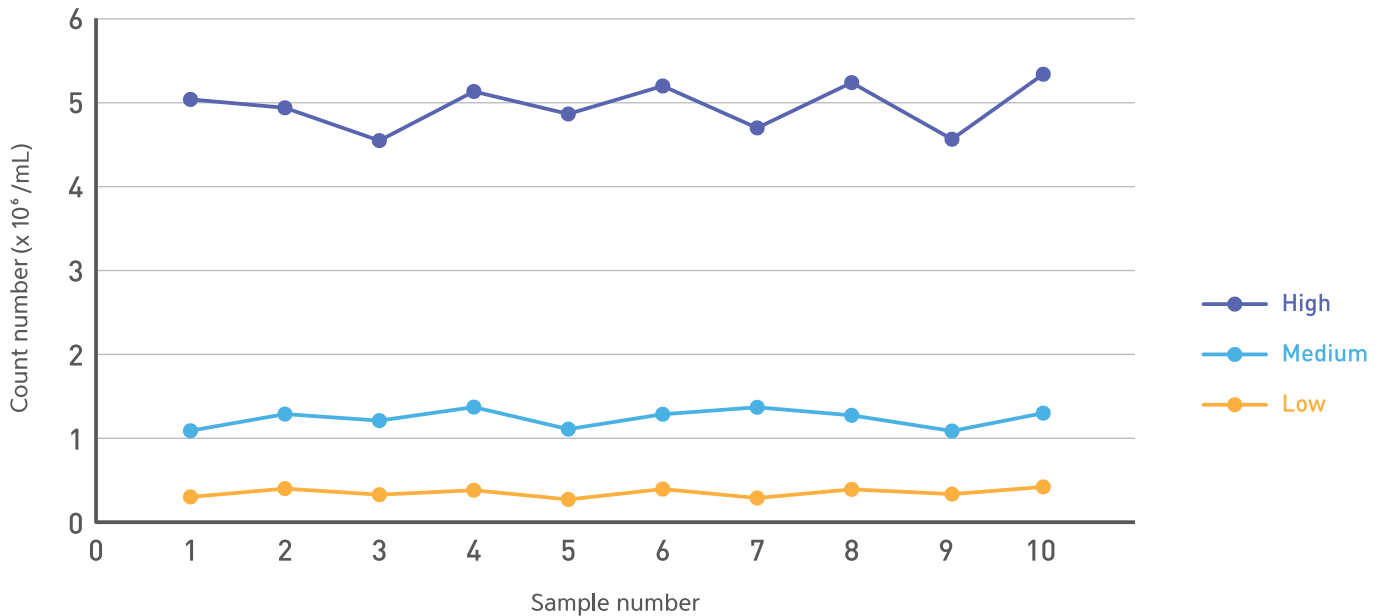
Accuracy : SOL COUNT vs Hematocytometer

**SOL
COUNT**



The total number of K562 cells counts by the hematocytometer, which is a manual method, correlates well with that SOL COUNT

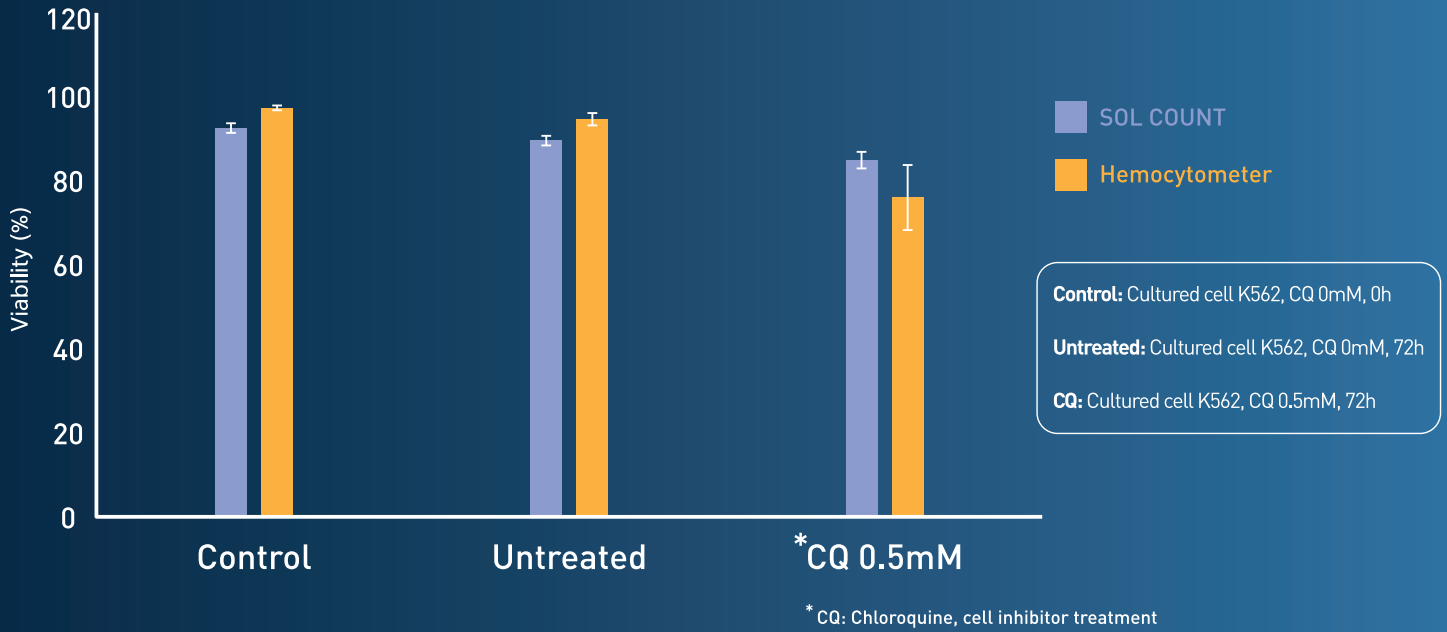
Repeatability



	High	Medium	Low
	n=10	n=10	n=10
MEAN	4.925×10^6	1.232×10^6	0.347×10^6
SD	0.28013	0.1082	0.05238
CV	0.056879	0.1082	0.150782

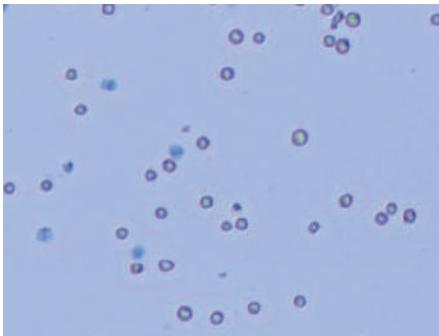
SOL conducted an experiment with 10 K562 cells lines each of low, medium, and high concentration to confirm reproducibility through the SD and CV.

Viability Comparison

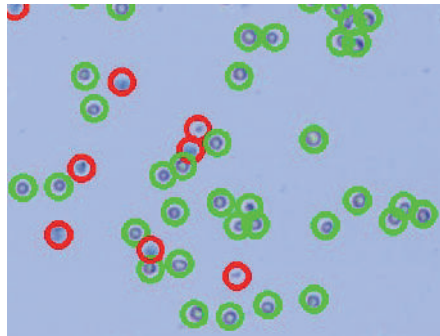


SOL COUNT measures viability through the live and dead cells in trypan blue staining conditions.

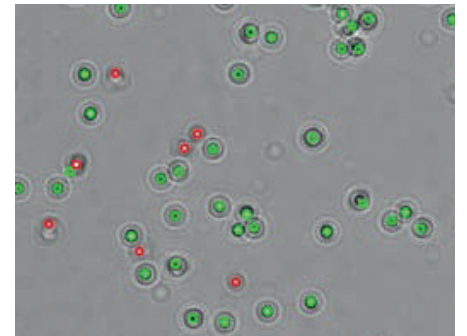
Microscopy Image



Matching Image



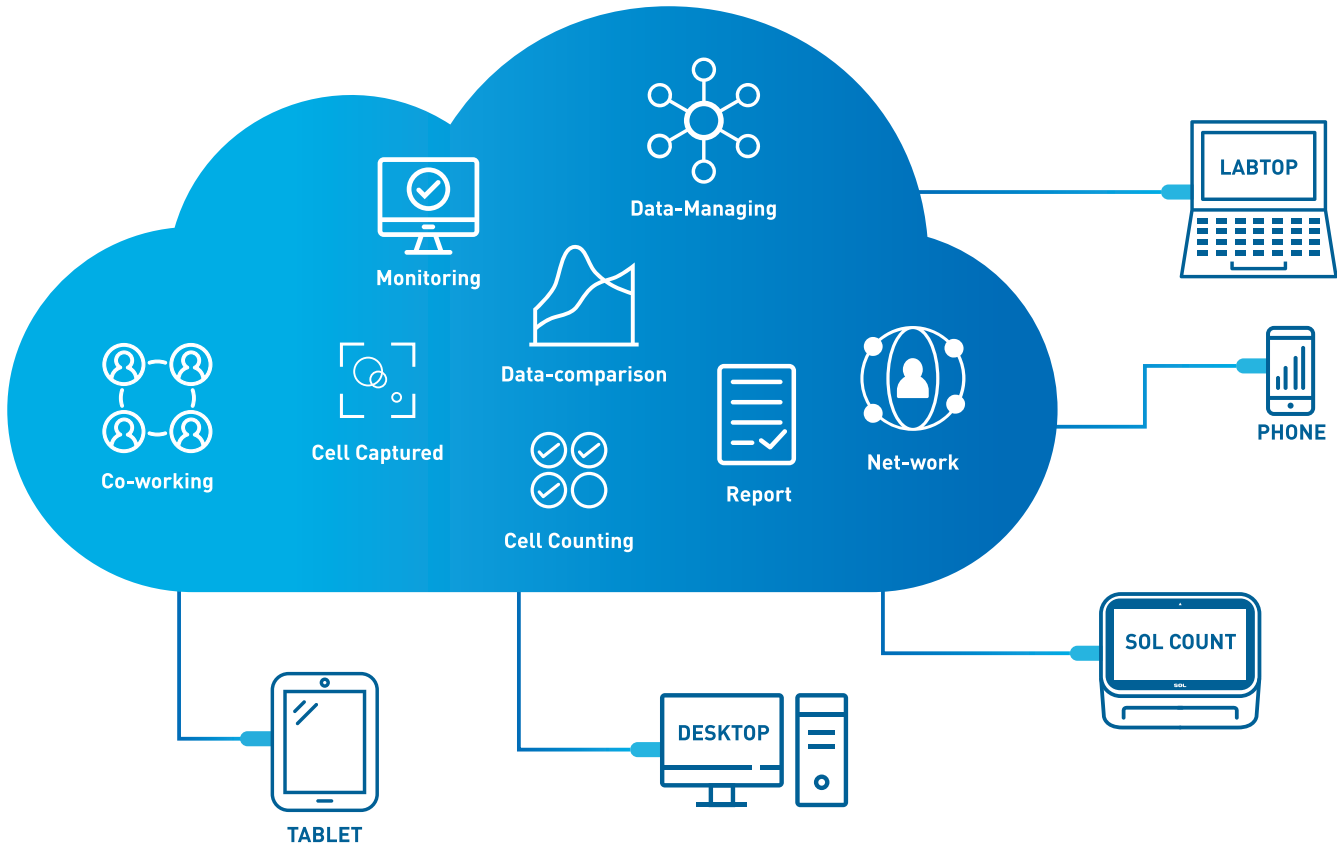
SOL Result Image



Comparison of viability image between microscopy and Solcount

○ Live cell ○ Dead cell

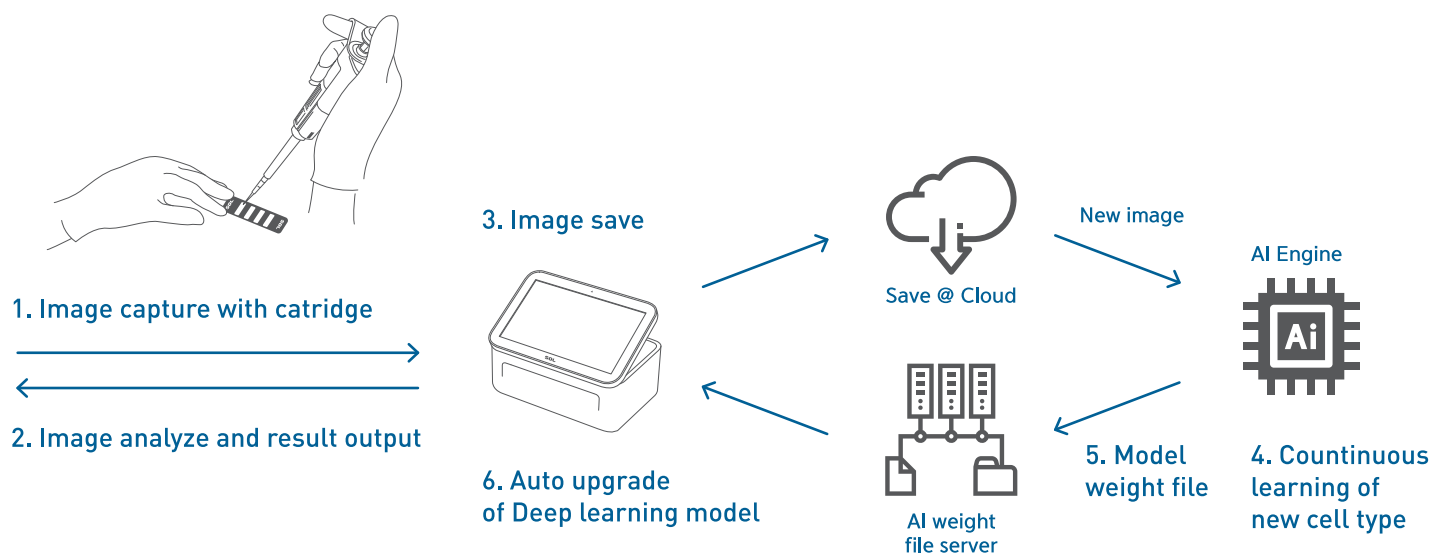
It verified that the Viability result image of microscopy and SOL COUNT's one look like same.



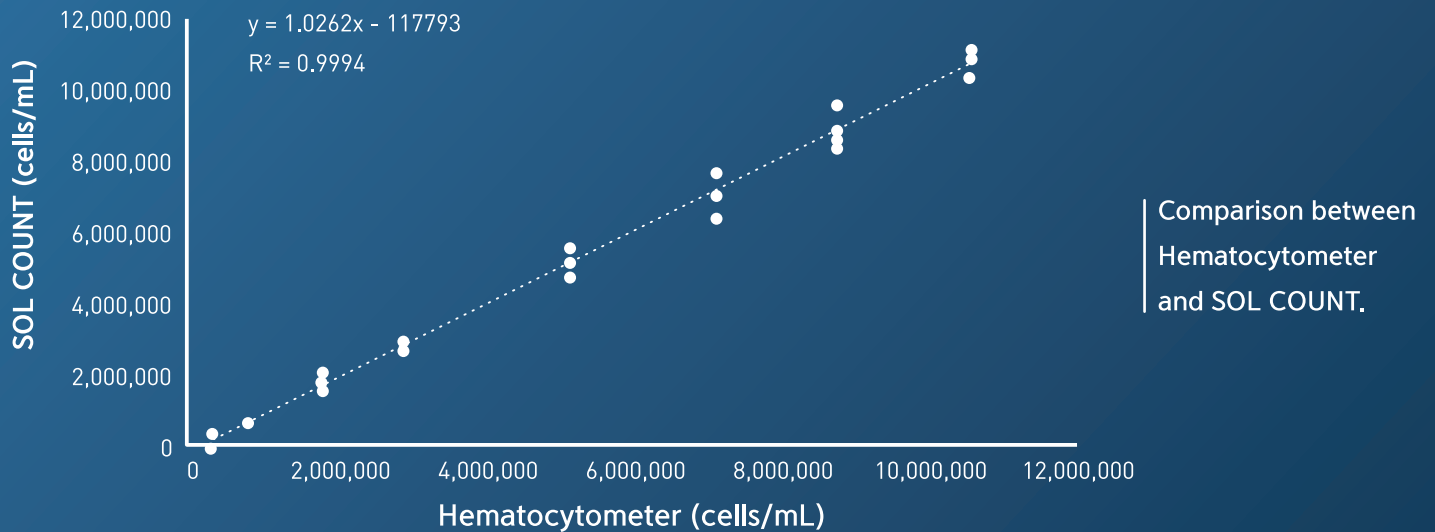
Access regardless of time and place ► Increase User's productivity

Build platform for rapid customer response & trust

Improved accuracy & shortened analysis time for new cells via AI



Linearity : SOL COUNT vs Hematocytometer



SOL COUNT could use to measure or count Mammalian cells. If there are clumped cells, it would be recommended to measure or count the cells after resuspension by pipetting or vortexing a few times.

Specifications

Cell Counting Time	≤ 10 s/channel
Cell Concentration Range	0.1 X 10 ⁶ ~ 8 X 10 ⁶ cells/mL
Cell Size Range	5-50 μm
Cell Viability Range	0~100%
Sample volume	10 μl
Sample Method	Trypan blue stain
Image Resolution	8MP
Exporter formats	jpg (image), PDF (report)
Data export	USB drive, Cloud Server(SOLOUD)
Display	6.95" Touch LCD
Connectivity	Ethernet, Wi-Fi (2.4G, 802.11 b/g/n), HDMI
Dimensions (WxDxH)	180 x 120 x 78 mm
Weight	1.8kg
Electrical Input	5V, 2A USB C Type charging
Battery	4400mAh

Ordering Information

Product Code	Product Name	Composition / Unit
SOL COU 1	SOL COUNT	SOL COUNT Automated Cell Counter device 1ea, SOL Cartridge 1box, C-type cable, USB drive
SOL COU 2	SOL Cartridge 1 box	50 ea / 1 box
SOL COU 3	SOL Cartridge 2 box	50 ea / 1 box
SOL COU 4	SOL Cartridge 10 box	50 ea / 1 box
SOL COU 5	SOL Cartridge 20 box	50 ea / 1 box
SOL COU 6	SOL Cartridge 30 box	50 ea / 1 box
SOL COU 7	SOL Cartridge 60 box	50 ea / 1 box

