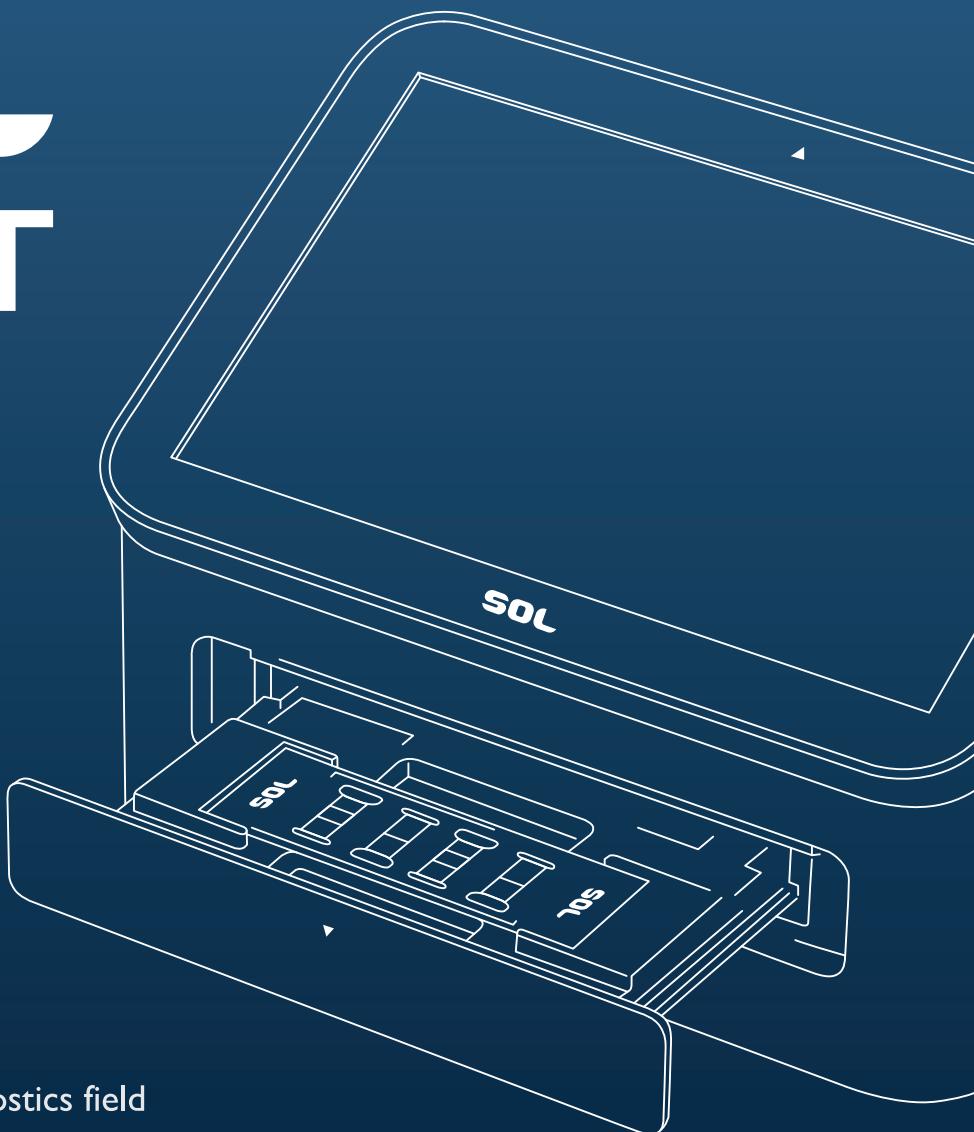


THE EASIEST CELL COUNTER YET

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

SOL COUNT



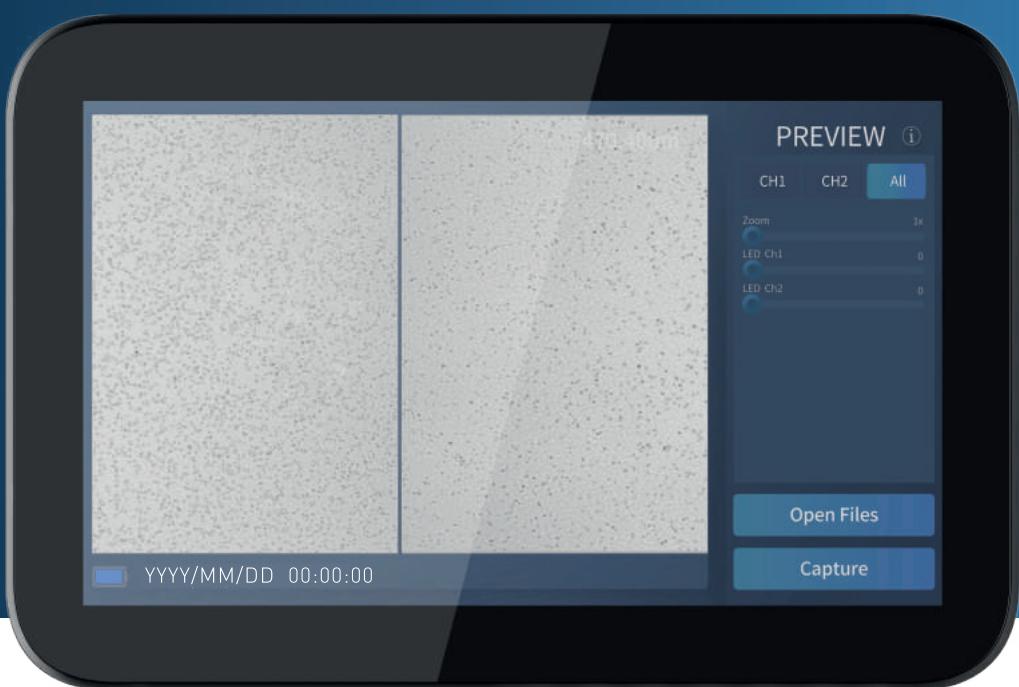
Meeting unmet needs in the diagnostics field



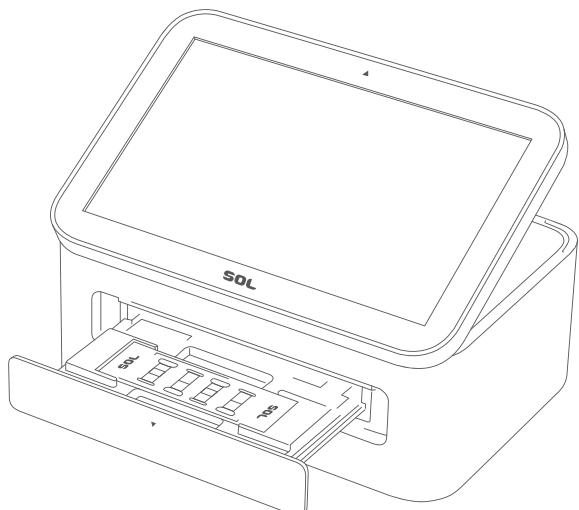
SOL Inc. is a disruptive bio-tech company with semiconductors for lens-free sensors.

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

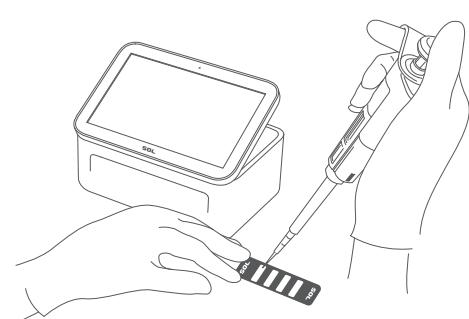


PORTABLE

Light weight, chargeable

The Testing Process in 4 Easy Steps

STEP 1



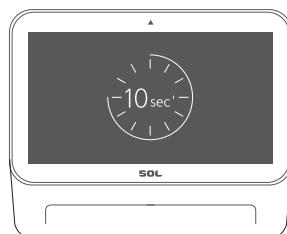
Load 10ul of cells in a cartridge with a pipette
(45° is the optimal angle)

STEP 2



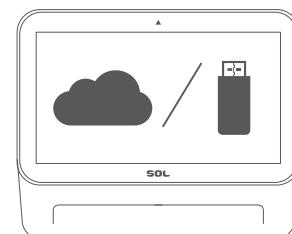
Push and open cartridge tray,
then place the cartridge

STEP 3



View results within seconds per channel

STEP 4

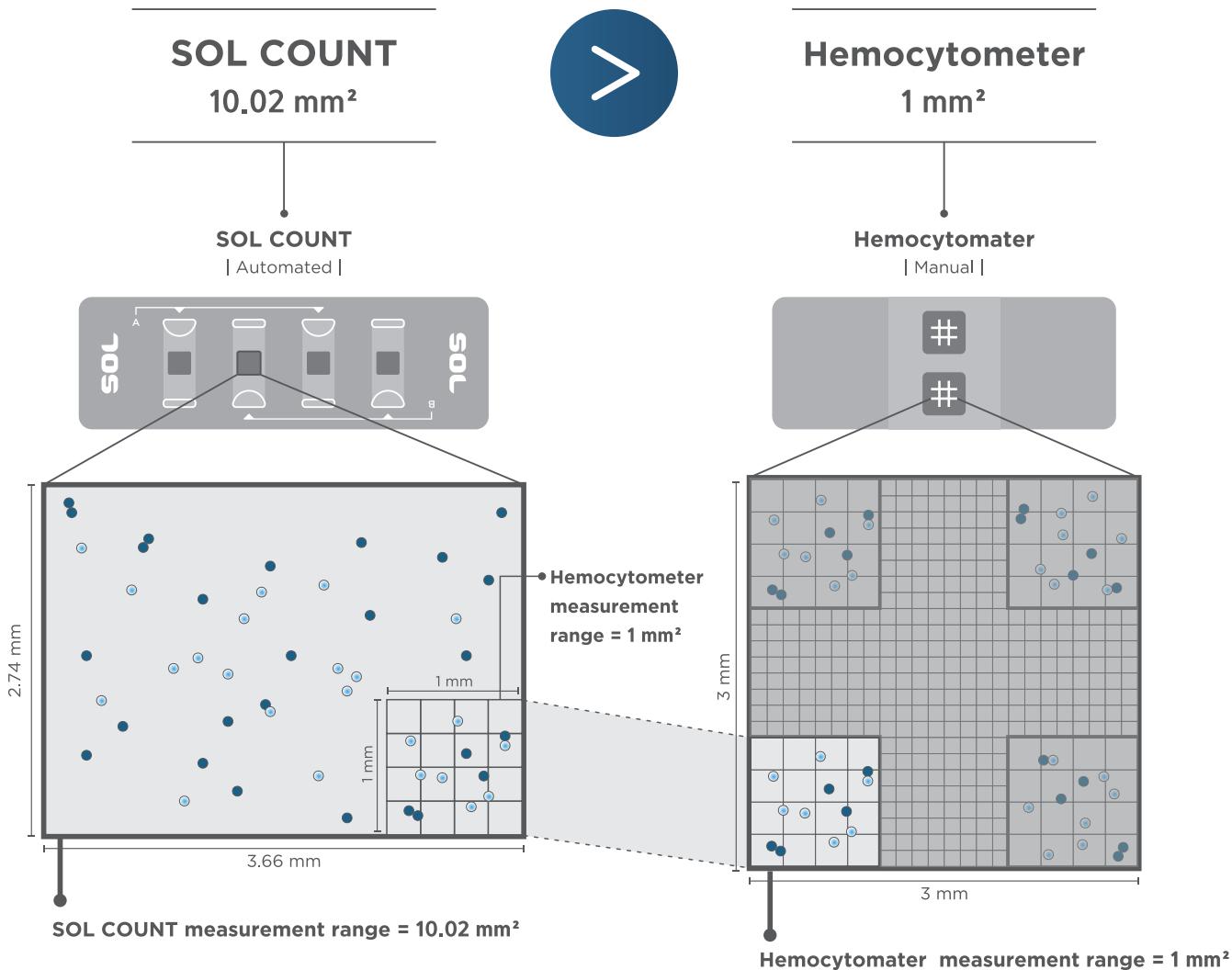


Transmit results to Cloud server and USB

**SOL COUNT Compared
with Hemocytometer (Manual)**

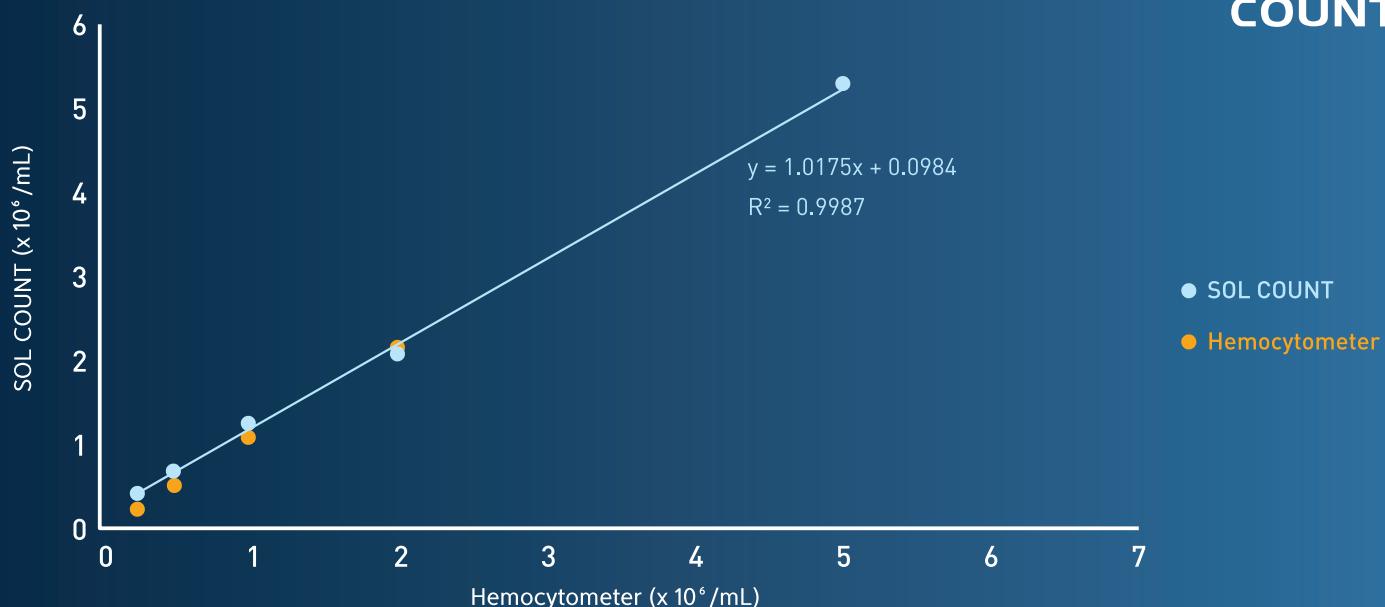
The cell counting area of SOL COUNT has a measurement range that is 10 times larger than that of the hemocytometer, thus improving the accuracy of cell counting.

Comparison of Cell Counting Measurement Range



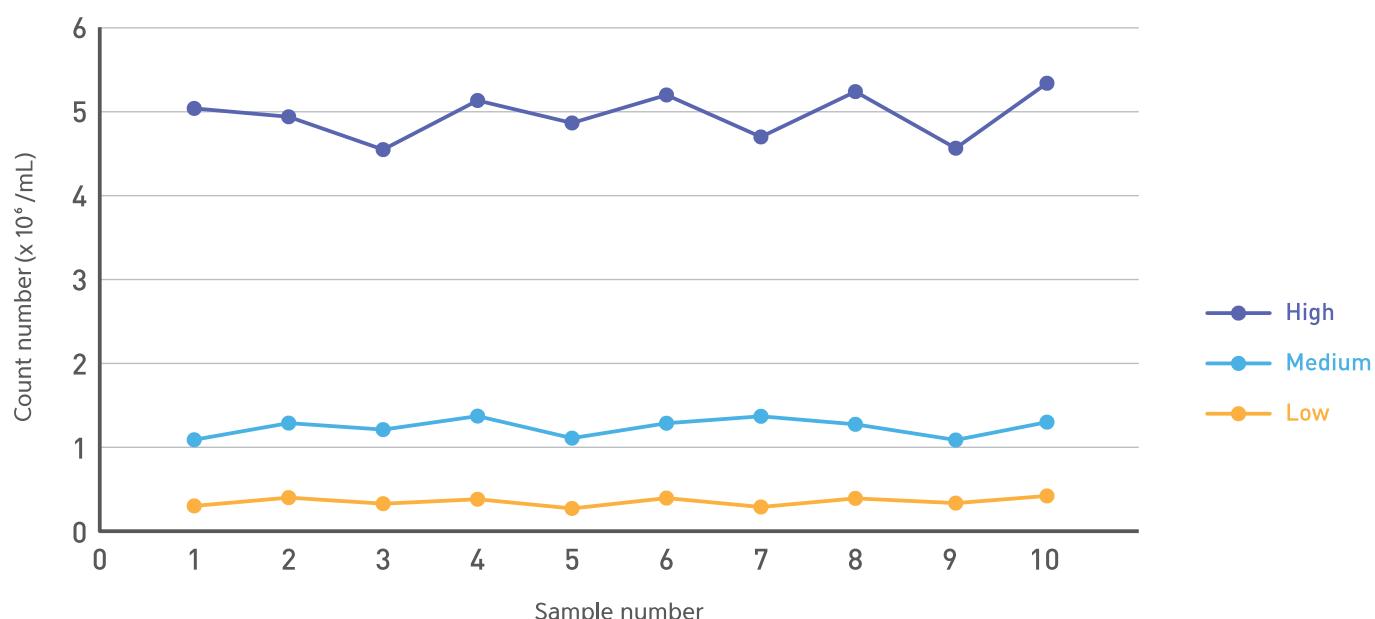
Accuracy: SOL COUNT vs Hemocytometer

**SOL
COUNT**



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

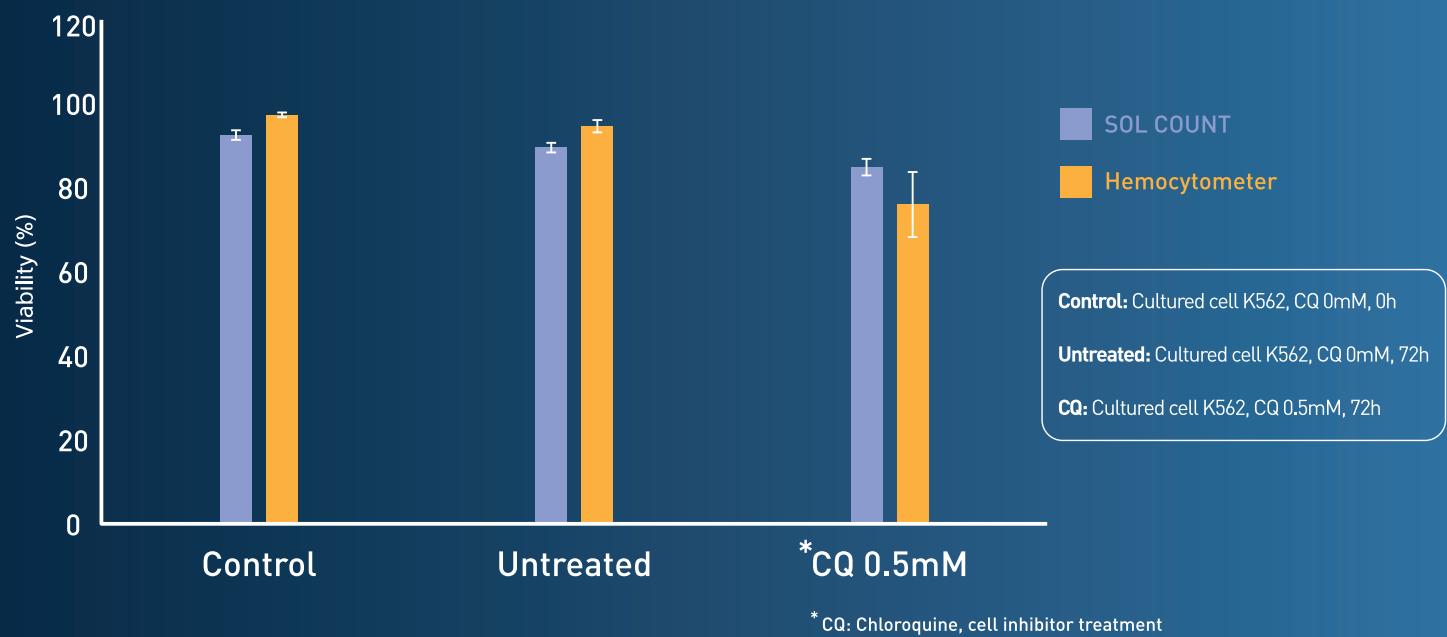
Repeatability



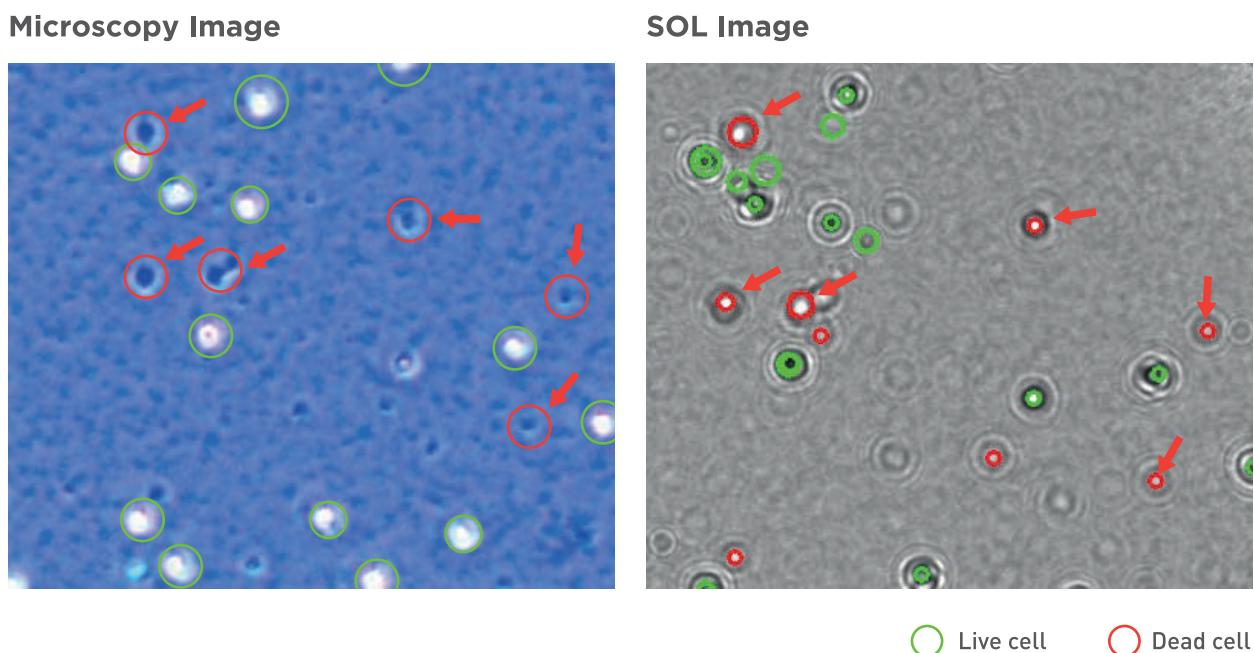
| | High | Medium | Low |
|------|---------------------|---------------------|---------------------|
| n | n=10 | n=10 | n=10 |
| MEAN | 4.925×10^6 | 1.232×10^6 | 0.347×10^6 |
| SD | 0.28013 | 0.1082 | 0.05238 |
| CV | 0.056879 | 0.1082 | 0.150782 |

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

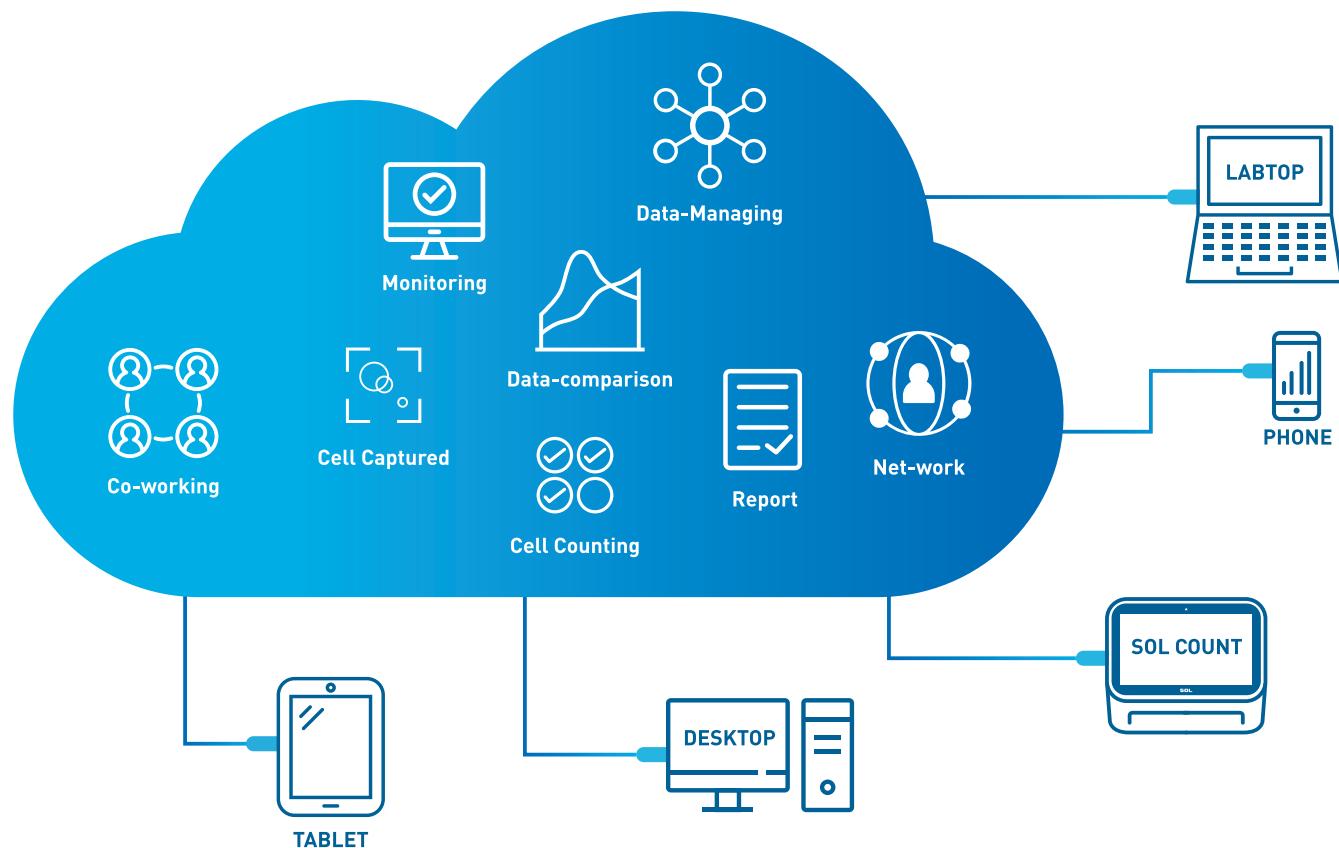
▪ **Viability Comparison**



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



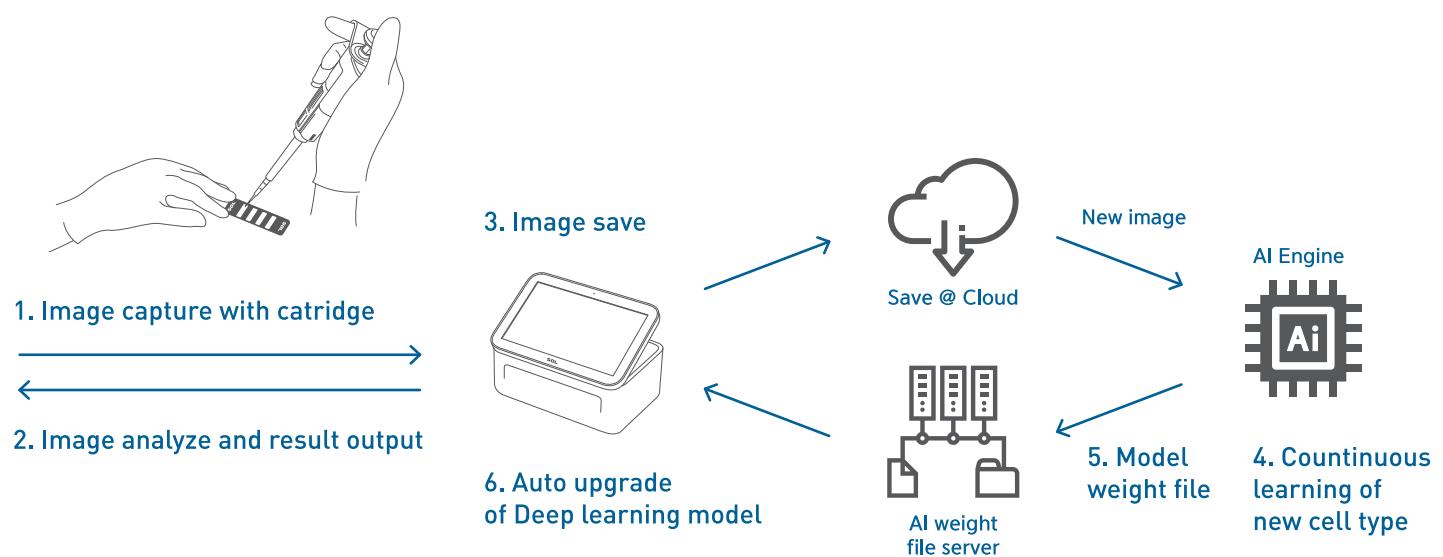
Comparison of cell viability between SOL COUNT, a manual count and a Hemocytometer. Viability was compared after K562 cells were treated with 0.5 mM chloroquine.



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**



Cell Line Validated

| | Cell type | Animal | Organ | Growth properties |
|----|-------------|---------|------------------------------------|-------------------|
| 01 | K-562 | human | blood | suspension |
| 02 | Vero | monkey | kidney | adherent |
| 03 | A549; A-549 | human | lung | adherent |
| 04 | HT-29 | human | colon | adherent |
| 05 | NIH3T3 | mouse | embryo | adherent |
| 06 | HeLa | human | cerbix | adherent |
| 07 | MCF-7 | human | breast | adherent |
| 08 | Colo25 | human | colon | adherent |
| 09 | MRC-5 | human | lung | adherent |
| 10 | THP-1 | human | monocyte | suspension |
| 11 | U-87 MG | human | brain | adherent |
| 12 | HepG2 | human | liver | adherent |
| 13 | CHO-K1 | hamster | ovary | adherent |
| 14 | L-929 | mouse | connective tissue; subcutaneous | adherent |
| 15 | A-204 | human | muscle | adherent |

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 Autumated 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 |

