



SOL COUNT



THE EASIEST CELL COUNTER YET

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



SOL COUNT is an Automated Cell Counter of using Lens-free Semiconductor Bio Sensors that quickly and accurately measures or counts the total number of cells, including cells and dead cells, and easily stores and transmits data. It could also measure and count two types of cells at the same time.

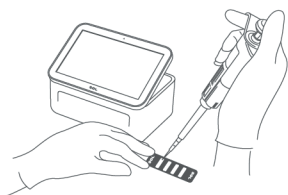
SOL Cartridge is a disposable that has 4 chambers that are easier to use and more cost-effective than competitor's one.

The Testing Process in 4 EASY STEPS

CAUTION

When the device is turned on, interpolation for optimal cell counting is automatically performed. When interpolation is going on, it is necessary to check out whether there are cartridges or some substances in the device before turning on the power because errors can occur during going on the interpolation if there are cartridges or some substances in the device.

STEP 1



Load 10ul of Sample(Trypan blue + Resuspended cell) in a cartridge with a pipette (45° is the optimal angle)

STEP 2



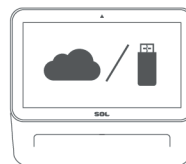
Push and open cartridge tray, then place the cartridge

STEP 3



View results within seconds per channel

STEP 4



Transmit results to Cloud server and USB

How to use the Device

SAMPLE PREPARATION

1. The cell suspension is mixed 1:1 with 0.4% trypan blue stain.
2. Mix well with a Pipette or Vortex
3. Loading 10ul of the mixture into the cartridge with a pipette. *Figure 1*



Figure 1.

Loading the mixture into the Cartridge

Note

SOL COUNT can get optimal results for single cell types. If there are clumped cells, we recommend cell counting after resuspension by pipetting or vortexing several times

CELL COUNTING

1. Press the Cartridge Tray in the lower center of the device to open it

2. Put the cartridge to the Cartridge Tray Mold then close it



Note

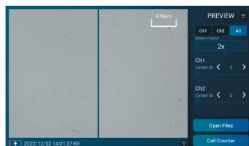
When opening a cartridge tray and pipetting a sample into the cartridge, put the cartridge on a clean table to prevent contamination of the cartridge surface in contact with the Lens-free Semiconductor Bio Sensors and be careful not to leave fingerprints.



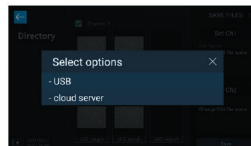
4. Click “Save Files” button to save it, after checking the result in “RESULT”



5. Click “Save” button, after selecting the result group you want to save or checking “File Name”



3. Click “Cell Counter” button after checking the sample status in the “PREVIEW”



6. Select a storage option

Center Brightness Parameter

Center Brightness Parameter is a convenience option that can get accurate results by adjusting to the user’s experiment when the Viability is came out with a higher than expected results.

HOW TO USE

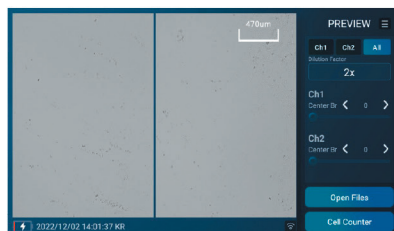
1. Check that the Viability is higher than expected.
2. The Center Brightness Parameter results on the PREVIEW screen can be adjusted according to the user’s experiment.

Note | Default is set up to 0.

Note | The adjusted parameter results will keep continuously applied.

3. Click “Cell Counter” button.

4. Check “Result”.



MAINTENANCE

1. Clean the product periodically to ensure high performance and prevent contamination.
2. When cleaning the product, always turn off the power and disconnect the power cable.
3. Be careful not to let the cleaning liquid get into the interface ports, such as the power button and charging port.
4. Wiping the touch screen with an abrasive cleaning solution or a material with a rough surface is not recommended, as it may scratch the touch screen.
5. Wipe the sensor in the cartridge tray with a lint-free cotton swab moistened with 70% alcohol. Other cleaning methods are not recommended, and the warranty will be void.
6. When cleaning the sensor part, do not apply too much force. Wipe it with a rubbing motion. Wiping with strong force can scratch the sensor. Scratching of the sensor reduces device performance.
7. When using the product for the first time after purchase or after a long storage period, charge the battery succinctly before use.
8. If the product is connected to the Internet, the battery will drain quickly. Always charge the battery succinctly before use to prevent the power from turning o during data transfer.

WARNINGS & SAFETY CAUTIONS

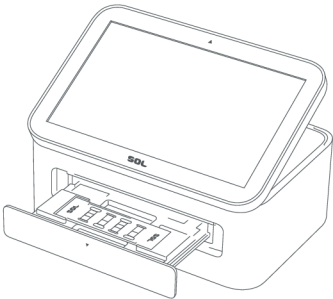
To protect the safety of users and to prevent property damage and inconvenience caused by accidents, please read the following section carefully before using the product and use the product correctly.

Warning Violation of warnings may lead to death or serious injury

1. Do not install, disassemble, or modify the product at your discretion.
2. Do not drop the product into water or use or store it in a humid place.
3. Avoid storing or using the product in places with the following conditions: direct sunlight, dust, splashing water, high humidity, heating appliances (stove, microwave, etc.) and inflammable substances (gasoline, thinner, flammable spray, etc)
4. Do not put metal objects, such as hairpins or metal fixtures, or inflammable objects, such as paper or matches, into the product.
5. When charging the product, we recommend that the Adapter be charged with a higher product 5V 3A.
6. The proper operating temperature of this product 10℃ - 50℃.
7. Do not touch the product or power plug with wet hands.
8. If the product emits smoke or a strange smells, stop using it, turn off the product by pressing the power button, and disconnect the power plug from the outlet.
9. If a foreign substance enters the product, turn off the power by pressing the power button o the main body, remove the power plug from the outlet, and contact the service center.

PRODUCT SPECIFICATIONS

Dimensions	180 x 120 x 78 mm
Weight	820 g
LCD Standard	7" 1,024 x 600 HD IPS
Image Sensor	1/4" 8M Pixel x 2
LED Wavelength	465 ~ 485 nm
Battery	4400mAh (2,200mA x 2), 3.7V
Operation Temperature	10°C ~ 50°C
Relative Humidity	0% ~ 95%



WARRANTY

During the one-year warranty period, if a defect occurs in the SOL COUNT Automated Cell Counter, SOL Inc repairs or replaces the defective part at its discretion. However, the following defects are specifically excluded.

1. When the warranty period has elapsed.
2. In case of failure due to careless handling or incorrect repair or modification.
3. In case of malfunction due to incorrect use of electric capacity.
4. In case of breakdown or damage due to external impact or dropping.
5. In the event of a breakdown due to repair by a service engineer not designated by SOL Inc.
6. In case of failure due to the use of consumables or repair materials not specified by SOL Inc.
7. When the exterior is damaged or deformed by organic solvents such as thinners or benzene.
8. In case of failure due to failure to observe the "Precaution" portion of the user manual.
9. In case of failure due to external causes other than defects of the product itself.
10. In case of failure due to natural disasters (lightning, fire, earthquake, wind and water, etc.).
11. When consumable parts have reached the end of their service life (battery, cartridge, etc.).
12. In the case of a simple inspection request without a product defect or failure.
13. When a product was purchased overseas, or a breakdown occurred while using it overseas.

**For warranty-related inquiries or requests, please contact info@sol.re.kr or your local distributor.*

Product Name	SOL COUNT Automated Cell Counter
Model Name	SOLCOU01
Serial Number	
Where to Purchase	
Date of Purchase	DD/MM/YYYY

This product is guaranteed for 12 months from the date of purchase by the first user.

Please contact the place of purchase for warranty.

- This product is released for research purposes only.
- This warranty cannot be re-issued.
- Any alteration to the serial number or removal of the serial number will void the warranty.
- Supplies used with the product, such as a C-type cable, a USB Stick, Cartridges, are not covered by this warranty.
- In case of any malfunction from user's fault, repair it at a service charge.



For more information,
you could download
"the Full Manual" in our Website.