Technical Specification

Model	UltraCount Mini
Detect Particle Size	5～200 µm
Detection Concentration	$1×10^4～3×10^7$ cells/mL
Optimal Concentration	$5×10^4～1×10^7$ cells/mL
Sample Volume	15 ~ 25µL
Accuracy	±5%
CV	<5%
Viability Range	0~100%
Detection Time	<1 second
Optical Precision	4X Objective NA 0.25
Image Sensor	CMOS (6.3 megapixels)
Detect Channel	Bright field
Display	7-inch touch screen (1920×1080 pixel)
Data Output	2*USB 3.0, RJ45 Port
Data Storage	128G SSD, Optional for more capacity
Power Supply	100~240V, 50/60Hz
Overall Dimension	245x139x205 mm
Net Weight	2.2 kg
Audit Trails	FDA 21 CFR Part 11 software and Servers Data Transmission are optional

*Ultrassay BioTech Co., Ltd. reserves the right of final interpretion of different application.

UltraCount Mini

Cell Counter

Compact size
Complete cell counting
within 1 second!

Order Information

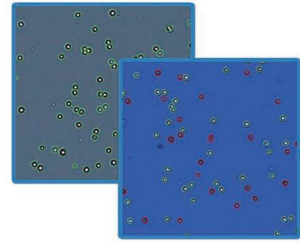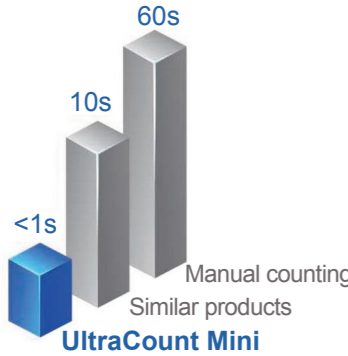| Name	Cat. No.	Specification
UltraCount Mini	UDC-NX02	Bright field
UltraCount Slides	UDC-N3EF120	50 pcs/box
UltraCount Slides	UDC-N3EF110	50 pcs/box

ULTRASSAY BIOTECH CO., LTD.

ultrassay

UltraCount Mini Automated Cell counter is a professional cell counter based on the principle of bright field/trypan blue staining. It has the fastest analysis speed on the market, a high-resolution optical imag -ing system, and a freely adjustable focal axis. The body is equipped with a 7-inch touch screen, which does not required an external computer. The compact design greatly improves the utilization of cell room space.

Accurate Counting

Bright field/Trypan Blue counting mode

The UltraCount Mini Automated cell counter detects a larger effective volume of cells, reaching 4.5 times that of traditional manual counting. At the same time, Ultrassay adopts the principle of all-optical differential operation, combined with self-developed artificial intelligence algorithms, effectively controlling the CV value of the same sample count within 5%, helping UltraCount Mini become of the most accurate cell counting tools on the market.
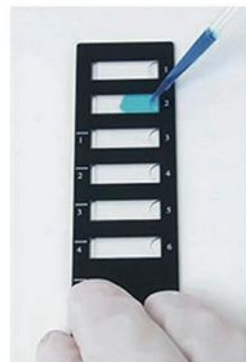
The Millisecond Ear

60s
10s
<1s
Manual counting
Similar products
UltraCount Mini
Time required for a single

The innovative third-generation analytical system of Ultrassay revolution has officially debuted, with analysis speed becoming the pinnacle of the market, and cell counting entering the "millisecond ear" from then on. UltraCount's analysis time for each sample is only 0.5~0.8 seconds, and it is completely unaffected by the concentration or complexity of the sample, making it a leader in speed.

Three steps for counting

UltraCount Mini's operation design always adheres to the concept of "one-step completion": adding samples, inserting boards, counting, as simple as the "1+1" math problem! With just three steps and no need for any unnecessary operations, UltraCount Mini truly creates a modern and efficient standard laboratory for you.
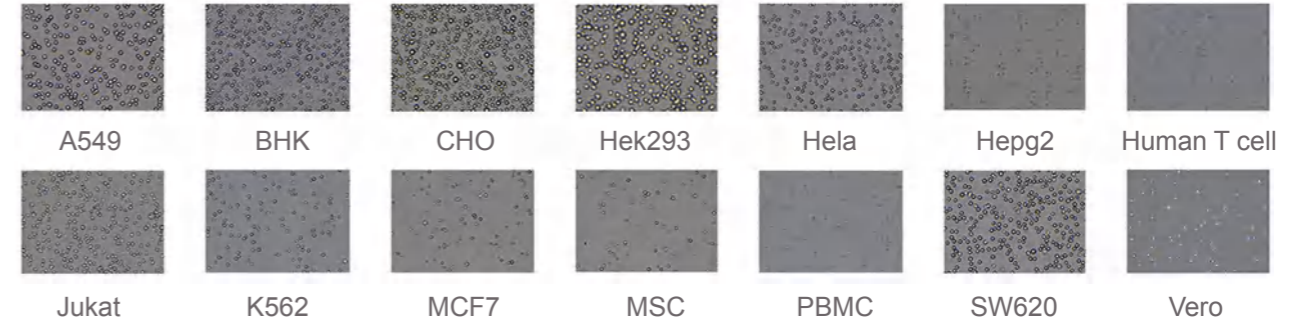

Sampling   Inserting   Clicking   Result
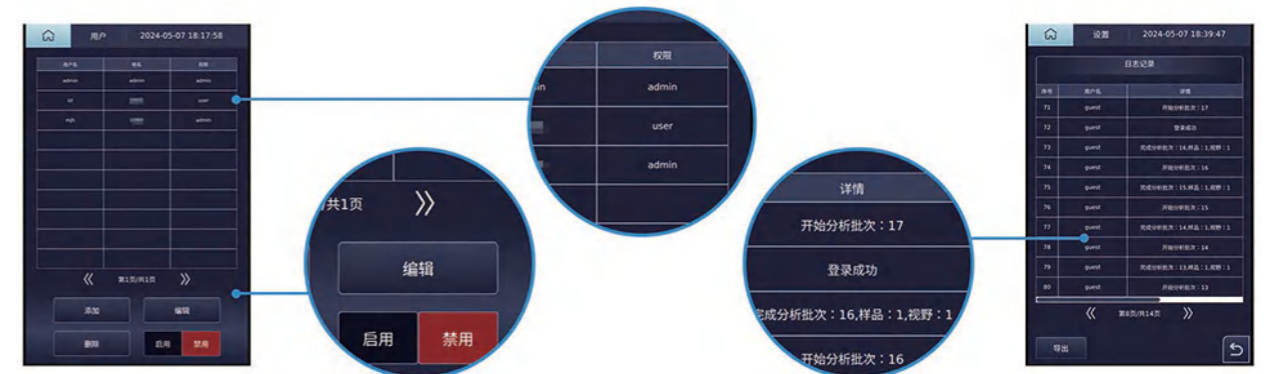
Wide cellular applicability

UltraCount has a wide range of cell concentration detection and can count cells within the range of 1×10^4 to 3×10^7 cells/mL. UltraCount has a wide diameter detection range between 15~200µm. In addition to detecting cell concentration and diameter range, the UltraCount Mini cell counter also has functions such as concentration dilution calculator and passage calculator, which ban analyze cell proliferation curves and cell size histograms.

| A549 | BHK | CHO | Hek293 | Hela | Hepg2 | Human T cell |
| Jukat | K562 | MCF7 | MSC | PBMC | SW620 | Vero |

Verified cell lines (partial)

Wide cellular applicability

UltraCount Mini achieved user hierarchical permission management and electronic signature, and the generated data reports can be completely eqivalent to the standard of paper record files, which has been praised by many bechmark pharmaceutical companies. The system has audit tracking function, and the encrypted logs backed up can be exported and uploaded through the Lims laboratory manage -ment system interface, fully meeting the regulatory requirements of GMP/cGMP and FDA 21 CFR PART 11.

Strict quality control

UltraCount Mini cell counter is based on a rigorous quality management system, replying on exquisite craftsmanship and high-quality materials to ensure that every device meets industry-leading standard. From raw material procurement to production and manufacturing, from product testing to after-sales service, we always strive for excellence to provide customers with reliable, stable products and excellent user experience.