

# WAVECELL

NEXT-GENERATION CELL COUNTER



LAB  
WAVE

# I. PRODUCT FEATURES



## Accurate Counting

Accuracy Deviation  $\leq 5\%$   
(standard microspheres  
at  $1 \times 10^6$  cells/mL)



## Short Counting Time

Sample Read Time Brightfield  
(TB) single sample:  $\leq 5$   
Fluorescence (FL) single  
sample:  $\leq 15$  seconds



## Higher cost performance

Eliminate the long-term  
economic burden of  
proprietary consumable costs

# II. PRODUCT PARAMETERS

Parameter Category	Detailed Specifications
Brand	LABWAVE
Model	CC-1 ; CC-2
Accuracy	Deviation $\leq 5\%$ , standard microspheres (concentration $1 \times 10^6$ particles/mL)
Stability	CV $\leq 3\%$ (highly dependent on consumable quality)
Sample reading time	Single-sample brightfield (TB) counting: $\leq 5$ seconds Single-sample fluorescence (FL) counting: $\leq 15$ seconds
Expandability / Scalability	Supports integration with smart lab systems
Dimensions (L×W×H)	250 × 250 × 300 (mm)
Display size	Approximately 8-inch touch screen
Sample loading volume	20 $\mu$ L
Imaging area	$\geq 3$ fields of view per single acquisition to meet statistical analysis requirements
Cell diameter detection range	2–200 $\mu$ m (adjustable based on detection requirements)
Cell concentration detection range	$1 \times 10^4$ – $5 \times 10^7$ cells/mL
Focus & exposure	Auto-focus & auto-exposure
Imaging sensor	$\geq 6$ megapixel color CMOS camera
Optical channel	CC-1: Brightfield channel only CC-2: Brightfield channel + dual fluorescence channels"
Fluorescence module	Blue fluorescence Ex: 480/30nm; Em: 535/40nm, Green fluorescence Ex: 540/25nm; Em: 620/60nm
Storage capacity	500G
Counting chamber	Disposable plastic counting chamber, compatible with Countstar counting chambers , Countess 3 counting chambers
Counting chamber wells	6 positions
Algorithm	AI intelligent traditional algorithm
Language	Supports two languages: Chinese and English