

# AlphaCount Smart

## Hematology Analyzer

### Parameters

22  
Parameters

WBC, Lym#, Mid#, Gran#,  
Lym%, Mid %, Gran%

RBC, HGB, HCT, MCV  
MCH, MCHC, RDW-SD, RDW-CV

PLT, MPV, PDW-CV, PDW-SD  
PCT, P-LCC, P-LCR



### Technical Specifications

<b>Principle</b>	: Electrical impedance and Colorimetry
<b>Throughput</b>	: 60 samples/h
<b>Sample volume</b>	: 9 $\mu$ L (whole blood mode), 20 $\mu$ L (pre-diluted mode)
<b>Parameters</b>	: 22 parameters + 3 histograms
<b>Calibration</b>	: Manual and Auto-calibration
<b>Sample type</b>	: Capillary whole blood, Venous whole blood, Pre-diluted blood
<b>Quality control</b>	: L-J and X-B floating mean
<b>Storage</b>	: 600,000 test records
<b>Power</b>	: 100V-240V (50/60Hz)
<b>Dimensions</b>	: 280 mm (L)*460 mm (W)*400 mm (H)
<b>Weight</b>	: 18Kg
<b>Display</b>	: 10.4" color LED screen



- Large 10.4" color display
- Lowest sample volume ever
- Pre-dilution mode with diluent dispense
- Excellent repeatability and reliability
- Auto clog-prevention design

# AlphaCount Smart

# Hematology Analyzer



Easy Operation



Excellent Performance



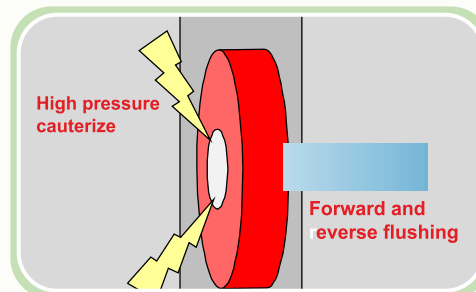
Low reagents Consumption



Easy Maintenance

## Easy Maintenance

- De-clogging blockage removal design.
- Automatic cleaning.
- Using only one maintenance reagent.



## High Accuracy

- Bidirectional stereoscopic back-swirling design: prevent re-circulation of cell particles resulting in repeat count.
- Digital filtering algorithm: Automatic Identification of interference signal correct the symmetry of RBC histogram.
- Pulse recognition algorithm.



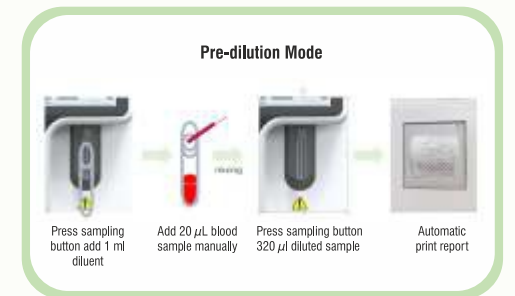
## Effective results analysis

- Speed: 60T/H.
- Built-in self-diagnosis device.
- Real-time display of reaction curve.



## Easy operations

- 10.4 inches touch screen with vivid colors and intuitive interface.
- Adopt a mainstream interface design to meet most user habits.
- One-click return or switch modes.
- Small footprint, lyse inside the machine.



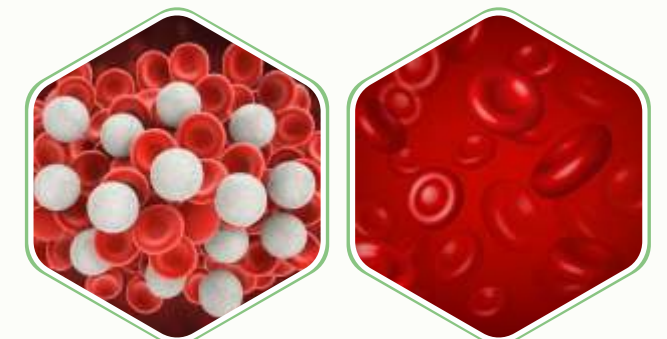
## Improved supporting sustems

- Cyanide free reagent and low reagent consumption.
- Built-in thermal printer multiple interfaces.
- Large storage of 600,000 results.



## Widest linear range

- ▶ WBC : upto  $200 \times 10^6 / \mu l$
- ▶ RBC : upto  $8 \times 10^{12} / \mu l$
- ▶ HGB : upto 25g/dL
- ▶ PLT : upto  $5,000 \times 10^3 / \mu L$



## Repeatability

AlphaCount Smart		
Parameters	Range of tests	Repeatability CV
WBC	$(3.5 \sim 15.0) \times 10^9 / L$	$\leq 2.5\%$
RBC	$(3.50 \sim 6.00) \times 10^{12} / L$	$\leq 1.5\%$
HGB	110 g/L ~ 180 g/L	$\leq 1.5\%$
MCV	80 fL ~ 110 fL	$\leq 1.0\%$
PLT	$(100 \sim 149) \times 10^9 / L$	$\leq 6.0\%$
	$(150 \sim 500) \times 10^9 / L$	$\leq 4.0\%$