

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

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



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AlphaCount Smart Hematology Analyzer

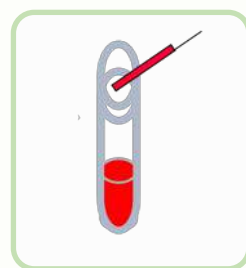


- ▶ Large 10.4" color display
- ▶ Lowest sample volume ever
- ▶ Pre-dilution mode with diluent dispense
- ▶ Easy maintenance
- ▶ Excellent repeatability and reliability
- ▶ Auto clog-prevention design
- ▶ Multiple external interface

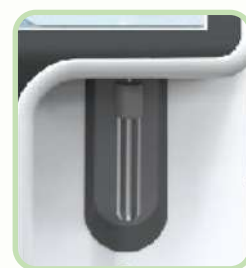
Pre-Dilution mode with diluent dispense



Press sampling button to dispense 1 ml diluent



Add 20 μ l micro capillary blood sample mix



Press sampling button 320 μ l diluted sample is aspirated



Automatic print report



Easy Operation



Excellent Performance



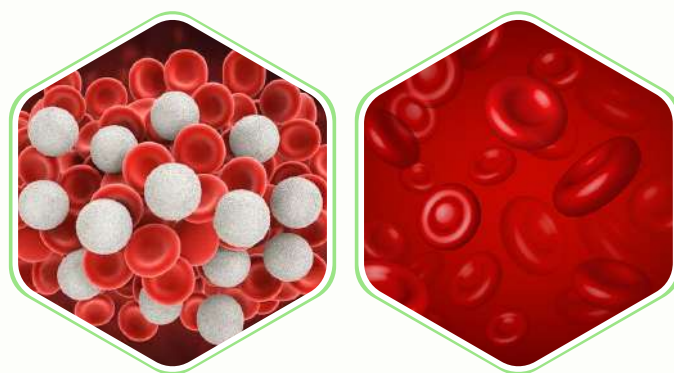
Low reagents Consumption



Easy Maintenance

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			Industry Standard	
Parameters	Range of tests	Repeatability CV	Range of tests	Repeatability CV
WBC	$(3.5 \sim 15.0) \times 10^9/L$	=2.5%	$(3.5 \sim 9.5) \times 10^9/L$	=6.0%
RBC	$(3.50 \sim 6.00) \times 10^{12}/L$	=1.5%	$(3.80 \sim 5.80) \times 10^{12}/L$	=3.0%
HGB	110 g/L ~ 180 g/L	=1.5%	115 g/L ~ 175 g/L	=2.5%
MCV	80 fL ~ 110 fL	=1.0%	82 fL ~ 100 fL	=3.0%
PLT	$(100 \sim 149) \times 10^9/L$	=6.0%	$(125 \sim 350) \times 10^9/L$	=10.0%
	$(150 \sim 500) \times 10^9/L$	=4.0%		

Features

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.

EASY OPERATION

- 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.

EFFECTIVE RESULTS ANALYSIS ABILITY

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

IMPROVED SUPPORTING SYSTEM

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

EASY MAINTENANCE

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

MULTIPLE QUALITY CONTROL

- X-B floating mean.
- L-J Quality control.