

Technical Specifications

Principles

- Tri-angle Laser scatter
- 3D Scattergram analysis
- Flow Cytometry method
- Cyanide free reagent for HGB test
- Impedance method for RBC and PLT counting

Parameters

- **25 Reportable parameters**
WBC, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-SD, RDW-CV, PLT, MPV, PCT, PDW, P-LCR, P-LCC, NEU%, LYM%, MON%, EOS%, BAS%, NEU#, LYM#, MON#, EOS#, BAS#
- **1 3D Scattergram**
- **3 Histograms(WBC/BASO,RBC, PLT)**
- **4 Research parameter:**
ALY%, ALY#, IG%, IG#

Test Mode

- CBC mode, CBC+DIFF mode
- Venous whole blood, Capillary whole blood and Prediluted

Throughput

60 samples per hour

Sample Volume

CBC+DIFF mode: ≤20ul

CBC mode: ≤10ul

Display

14 inch touch screen, resolution 1366*768

Jinan Kinghawk Technology Co.,Ltd
No.205.E South Building,
Environmental Protection Technology Park,
Jinan 250101, Shandong, China
Tel:0086 531 8970 2821/2/3/4
Fax:0086 531 8268 7770
E-mail: export@kinghawktech.com

Printout

Support various external USB printers,
printout formats user definable

Communication

Bi-direction LIS, support HL7 protocol
Internal RFID reader

Interface

1 LAN port, 4 USB ports

Storage

Up to 100,000 results(including histogram,
scarttergram, patient information)

Working Conditions

Temperature:10-30 ℃

Humidity: 20% - 85%

Air pressure: 70~106kPa

Working latitude: ≤3500m

Power supply:AC100-240v,50/60HZ

Dimension

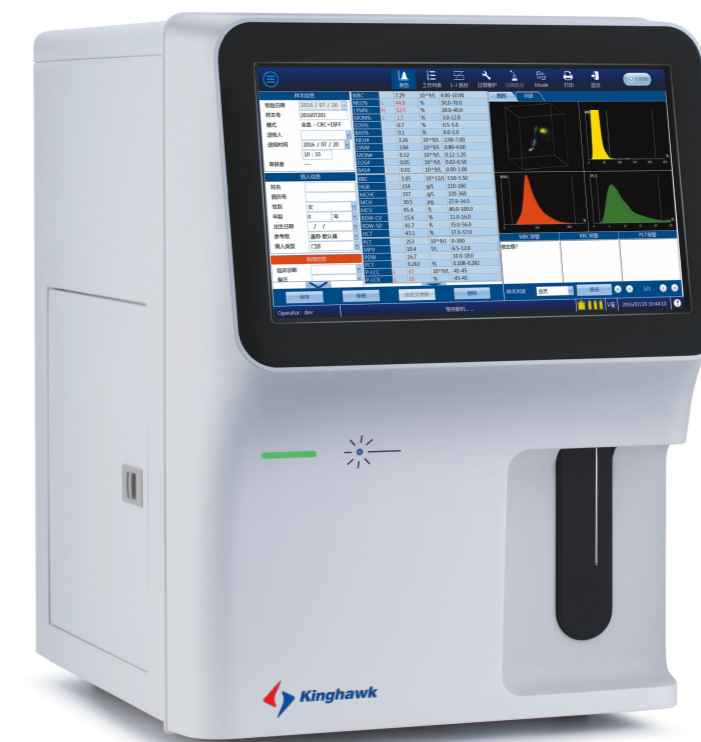
480x375x517mm(L*W*H)

Weight

36Kg(net)



CE ISO9001 ISO13485



- 25 parameters +3 histogram+1 3D scattergram

- 60 samples/hour

- 5 part blood cell counter

- 2 test mode

- 14" large touch screen

- External USB printer

- Stable, durable and economical

SMART-II

5-part Auto Hematology Analyzer

Profession & Care

Jinan Kinghawk Technology Co.,Ltd

SMART-II 5-part Auto Hematology Analyzer

Performance

High Stability & Accuracy

- Advanced Sweep-Flow technology guarantees low PLT samples counted precisely.
- Combined with optical and impedance method to make the BASO measurement more reliable and stable
- Creative SMART-FLOW fluidic technology to makes SMART-II with good reliability and free of maintenance.

User-friendly System

- 14 inch touch screen with high resolution and sensitivity, can be operated by wearing gloves
- ONE touch to start the test,
- ONE click to remove error,
- ONE screen for most of the daily operation.
- Intelligent turn off power switch.

Cost-effective and Attractive Design

- Low running cost
Only three reagents needed for the test ,
- Low reagent consumption for single test.
- Low volume sample consumption
CBC+DIFF mode: ≤20ul, CBC mode: ≤10ul,
Ideal choice for pediatrics and geriatrics.

Parameter	Linearity Range	Cary Over	CV
WBC	0-300x10 ⁹ /L	≤0.5%	≤2.0%
RBC	0-8x10 ¹² /L	≤0.5%	≤1.5%
HGB	0-250g/L	≤0.5%	≤1.5%
PLT	0-3000 x10 ⁹ /L	≤1.0%	≤4.0%

Reagents



Reagent	Package
Diluent	20L
Lyse-1	500mL
Lyse-2	500mL

Principle

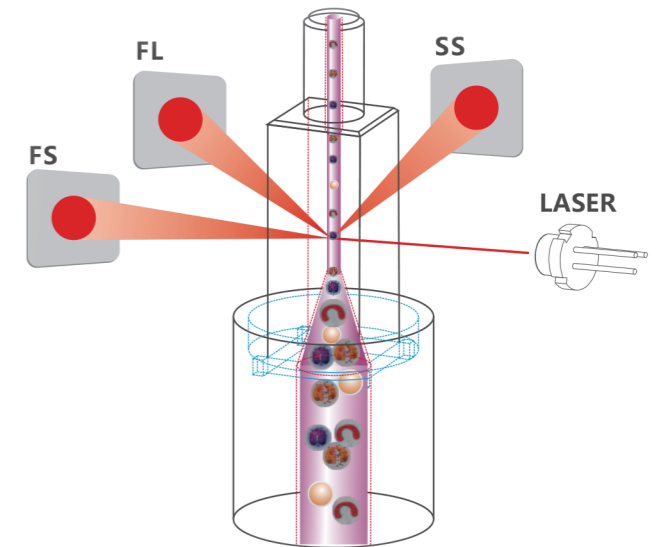
Tri-angle laser scatter+flow Cytometry +impedance method for WBC

The 5 part differentiation of the white blood cell can be precisely done by collecting the optical signal when WBC pass through the beam

The front small-angle optical signal can reflect the information of the cell size

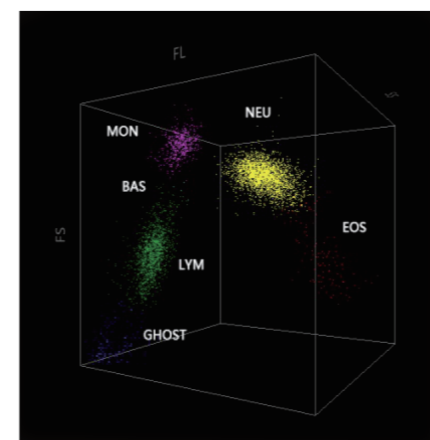
The front large-angle optical signal can reflect the information of nucleus' structure and complexity.

The side angle optical signal can reflect the information of granularity complexity.



3D Scattergram

3D holographic scattergram displays the accurate 5 part differentiation of WBC



Dual methods for BASO measurement

The first innovative analyzer combined the optical method of BASO(BASO-O) and impedance method of BASO(BASO-I) together, it brings more reliable and stable measurement of BASO pathologic samples, and minimized the analysis failure.

