

Technical Specification

Principles

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

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#, LIC%, LIC#

Test Mode

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

Throughput

60 tests/hour

Performance

Parameter	Linearity Range	Carry 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%

Sample Volume

CBC+DIFF mode : ≤20ul

CBC mode : ≤10ul

Data Memory

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

Display

14 inch touch screen, resolution 1366*768

Interface

1 LAN port, 4 USB ports

Communication

Support HL7 protocol/LIS
Internal RFID reader

Printout

Support various external USB printers, printout formats user definable

Size/Weight

L * W * H = 480*375*517(mm)

Weight: 36kg

Power Requirement

a.c.100-240V,50/60Hz

Working Environment

- Temperature:10-30°C
- Humidity: 20% - 85%
- Air pressure: 70~106kPa
- Working latitude: ≤3500m

AC 610

Auto 5-part Hematology Analyzer



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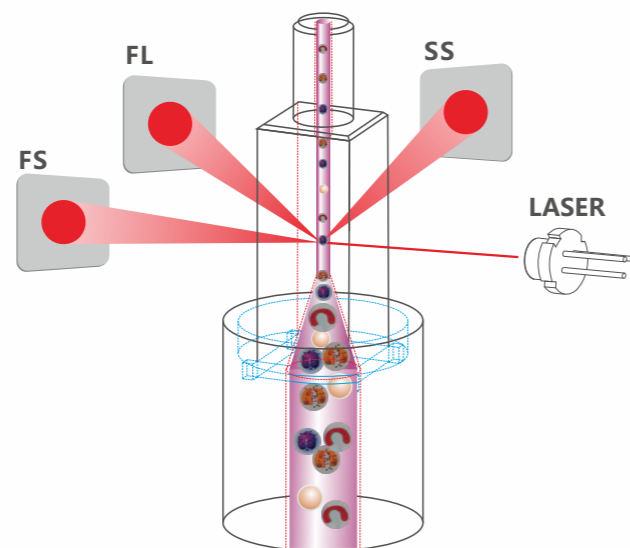
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Principle

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

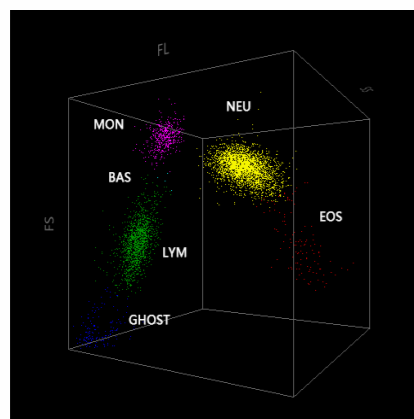
The 5 part differentiation of the white blood cell can be precisely done by collecting the optical signal when WBC pass through the laser beam.

- 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.



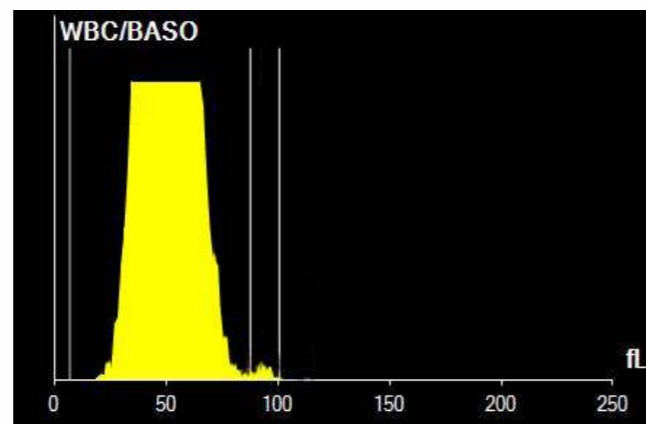
3D Scattergram

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.



Compact

Compact design with reagents on board, save the valuable bench space of small labs.



- Premium large touch screen**
14 inch touch screen with high resolution and sensitivity, can be operated by wearing gloves.
- SMART-FLOW fluidic patent technology**
The creative SMART-FLOW fluidic technology is a simple and efficient system, which makes AC 610 with good reliability and free of maintenance.
- Accurate measurement for low value PLT**
Advanced Sweep-Flow technology guarantees low PLT samples counted precisely.
- Low volume sample consumption**
CBC+DIFF mode : ≤20ul, CBC mode : ≤10ul, Ideal choice for pediatrics and geriatrics.
- Low running cost**
Only three reagents needed for the test, low reagent consumption for single test.
- Easy to use**
ONE touch to start the test, ONE click to remove error, ONE screen for most of the daily operation. Intelligent turn off power switch.