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, scarttergram, patient information)

Display

14 inch touch screen, resolution 1366*768

Interface

1 LAN port, 4 USB ports

Communication

Support HL7 protocal/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℃
- Humidity: 20% - 85%
- Air pressure: 70~106kPa
- Working latitude: ≤3500m

ISO CE

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AC 610

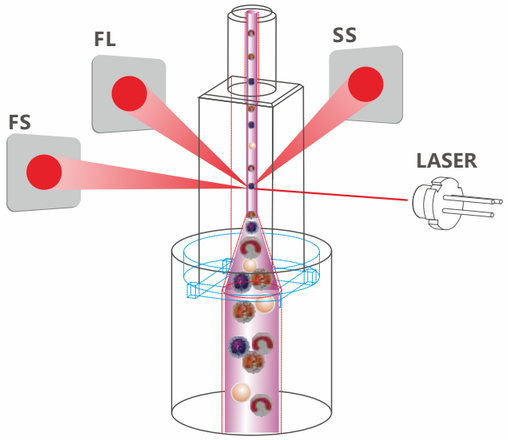
Auto 5-part Hematology Analyzer

Principle

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

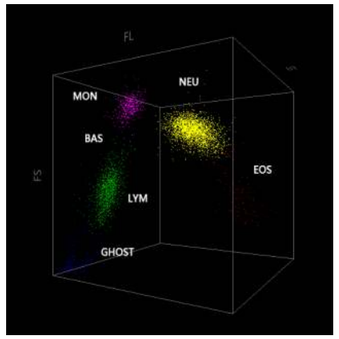
The 5 part differentiation of the white blood cell can be precisely done by collecting the optical signal when WBC pass through the laser beam.

- 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.



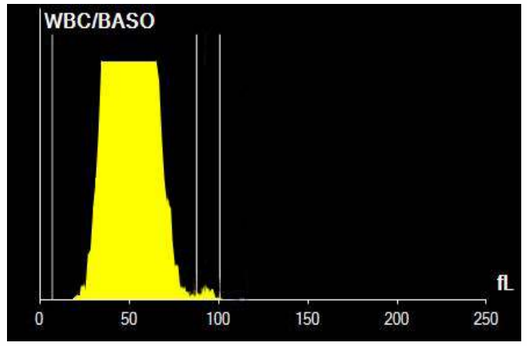
3D Scattergram

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 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.