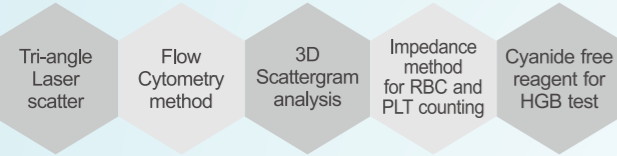


Technical Specification

Principles



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)

6 Research parameter:

ALY%, ALY#, LIC%, LIC#, NRBC%,NRBC#

Test Mode

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

Throughput

70 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

Loading Postion

50 sample positions

Power Requirement

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

Working Environment

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

Auto H-5PD

“Touching Human Lives Through Innovation”



Matrix Labs Diagnostics Pvt. Ltd.,

“Matrix Towers” 3rd Floor, S.No-114/13A, 13B, 12B, 12A2,
Ponniyamm Kovil Street, Noombal,
Chennai-600077, India.
+91-044-26793885 / 87 / Toll free : 18001201713,
info@matrixlabs.in, www.matrixlabs.in



Advantages

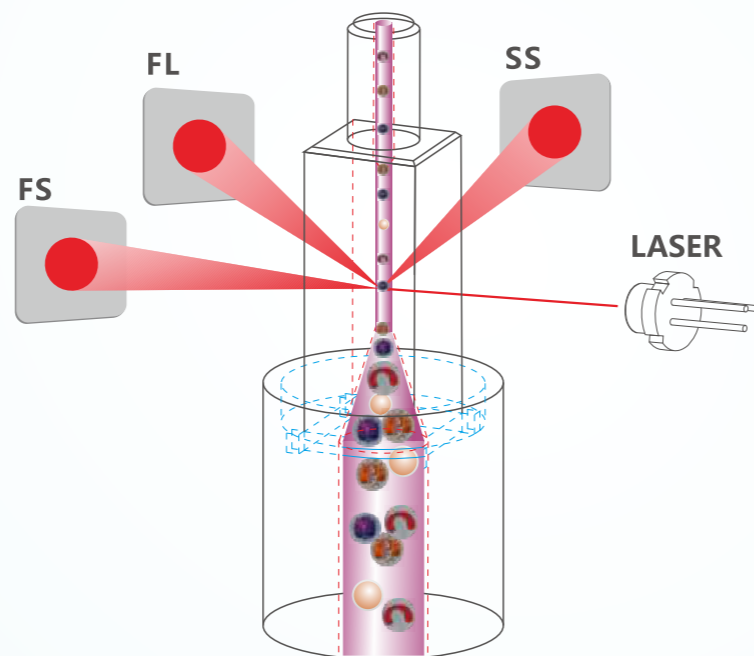
- Inbuilt PC
- Remote Desktop Support
- Support all Printers

Principle

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

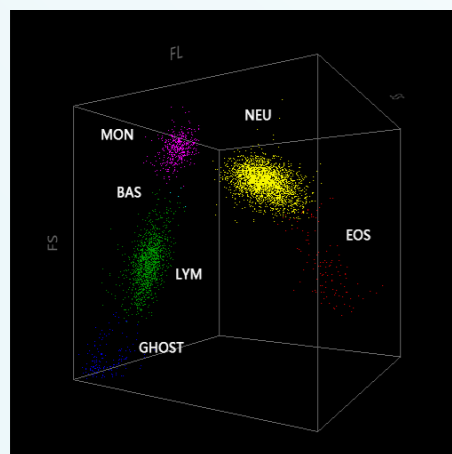
The Auto 5 part differentiation of the white blood cell can be precisely done by collecting the optical signal when WBC pass through the laser beam.

- 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.



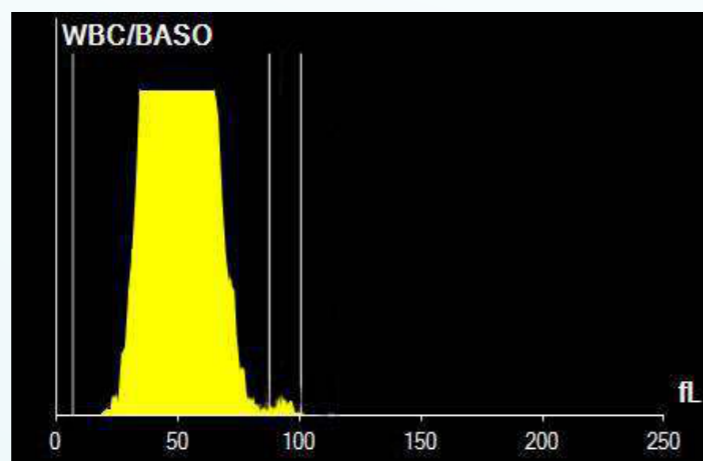
3D Scattergram

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



Dual methods for BASO measurement

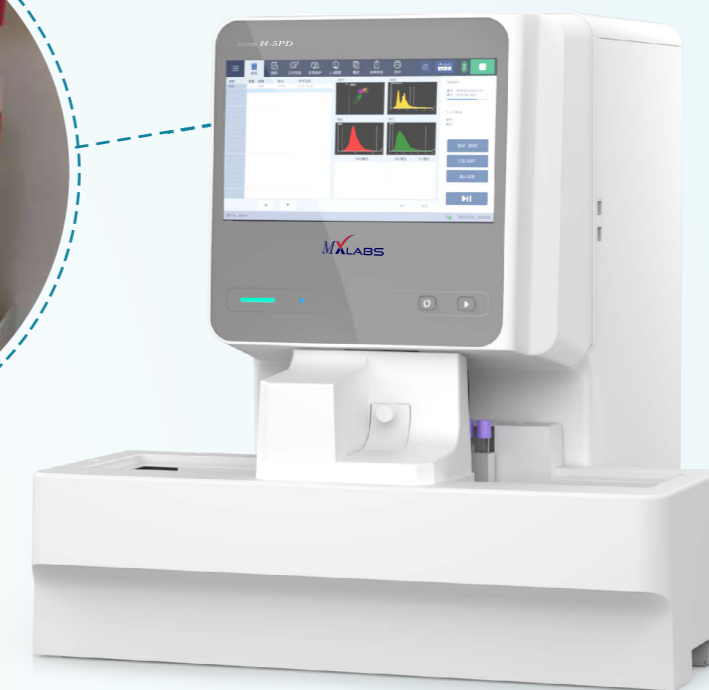
The first innovative analyzer combined the optical method of BASO(BASO-O) and impedance method of BASO(BASO-I) together, it bring more reliable and stable measurement of BASO pathologic samples, and minimized the analysis failure.



Auto H-5PD

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 AutoH-5PD with good reliability and free of maintenance.

Accurate measurement for low value PLT



Advance Sweep-Flow technology guarantees low PLT samples counted precisely.

Low volume sample consumption



CBC+DIFF mode : $\leq 20 \mu\text{l}$, CBC mode : $\leq 10 \mu\text{l}$, 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.