

Technical Specification

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#.

4 Research parameter :

- ALY%, ALY#, IG%, IG#
- 1 3D Scattergram
- 3 Histograms(WBC/BASO, RBC, PLT)

Test Mode

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

Throughput

60 tests/hour

Data Memory

Up to 100,000 sample result.
(including histogram, scattergram and patient information)

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	0-3000x10 ⁹ /L	≤1.0%	≤4.0%

Principles

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

- 1 LAN port, 4 USB ports
- Bi-direction LIS, support HL7 protocol
- Support external USB printers and Wifi collection (Optional)
- Internal RFID reader (Optional)

Sample Volume

- CBC + DIFF mode: ≤ 20ul
- CBC mode: ≤ 10ul

Display

14 inch touch screen, resolution 1366*768

Size/Weight

L480XW375XH517mm / ≤36kg

Working Environment

Power Requirement: AC100-240V, 50/60Hz
Temperature: 10-30℃
Humidity: 20-85%
Air pressure: 70-106KPa
Working latitude: ≤3500m

DW-5680

Auto 5-part Hematology Analyzer



Dewei Medical Equipment Co.,Ltd

Add.: 5th Floor, No.4 Building, Shiyou Industrial Park, Jun'an,
Shunde, Foshan, China

Tel.: +86 757 25516612

Fax: +86 757 25516349

Email: sherry@deweilab.com

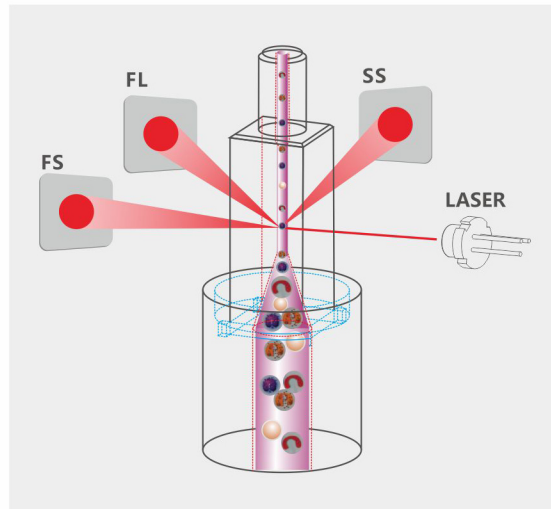
Website: www.deweilab.com



dewei 德维

DW-5680

Auto 5-part Hematology Analyzer

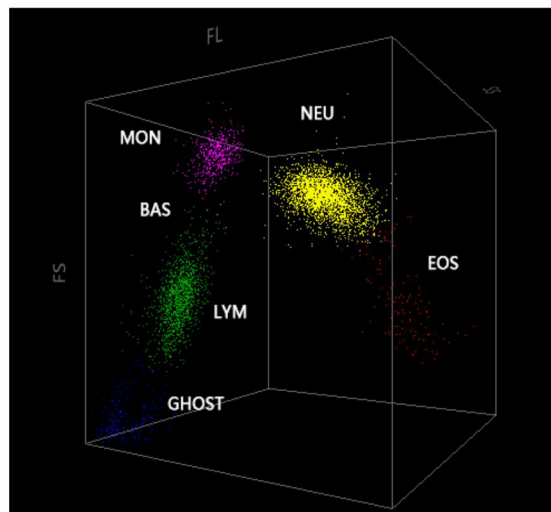


Principle

Tri-angle laser scatter + flow Cytometry + Impedance method of WBC/BASO.

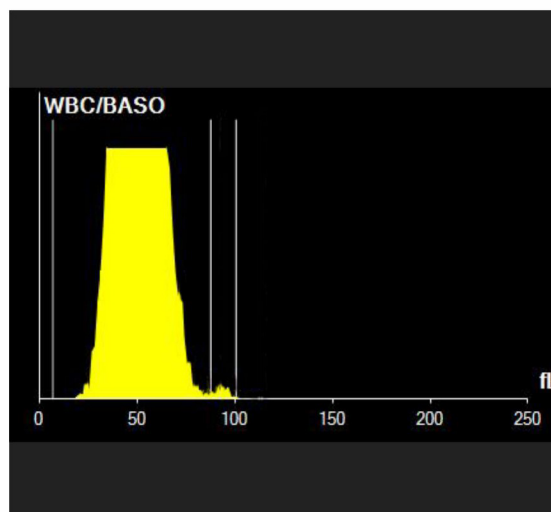
The 5 part differentiation of the white blood cell can be precisely done by collecting the optical signal when WBC pass through the laser beam.

- **FS:** The front small-angle optical signal can reflect the information of cell size.
- **FL:** The front large-angle optical signal can reflect the information of nucleus' structure and complexity.
- **SS:** The side angle optical signal can reflect the information of granularity complexity.



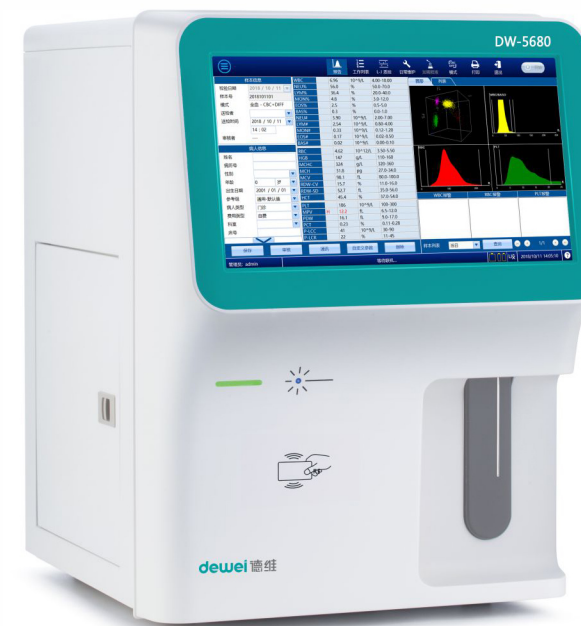
3D Scattergram

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



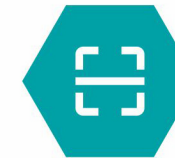
Dual methods for BASO measurement

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



Compact

- Cute size
- Built-in reagent cabin



Accurate measurement for low value PLT

Advanced sweep-flow technology
Ensure accuracy of PLT



SMART-FLOW fluidic patent technology

Innovative technology
High efficiency
Good reliability
Free of maintenance



Premium large touch screen

14 inch touch screen
High resolution and colorful screen
High sensitivity of operation by wearing gloves



Low running cost

3 Reagents
Low reagent consumption of single test



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.



Easy Operation

One Click to run test.
One Click of troubleshooting.
One interface of whole daily operation.
Intelligent turn off power switch.