

Hemax 60

6 Part Hematology Analyzer



Features

■ Superior functionality:

Supports multiple sample types (WB, PD, BF), features user-definable retest rules, and provides a 3D scattergram for the analysis of multiple parameters.

■ Excellent Performance:

This system delivers reliable results for abnormal and interfered samples, offers accurate measurement of low WBC/PLT counts, features 30+ clinical alarms, and maintains stability for up to 24 hours at room temperature or 48 hours at 2°C – 8°C.

■ Convenient Maintenance:

With a compact, modular structure, the system enables easy maintenance through automatic or manual modes and supports field-replaceable hardware units and software updates.

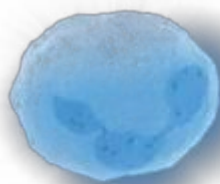
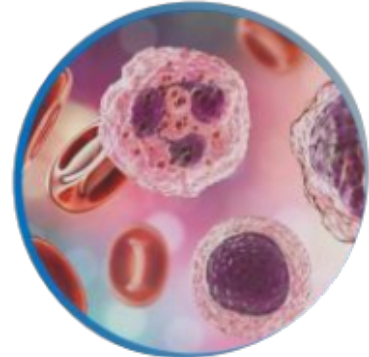
■ Easy Operation:

Offering a user-friendly interface, the system supports flexible authority management and is equipped with multiple external interfaces for enhanced connectivity.

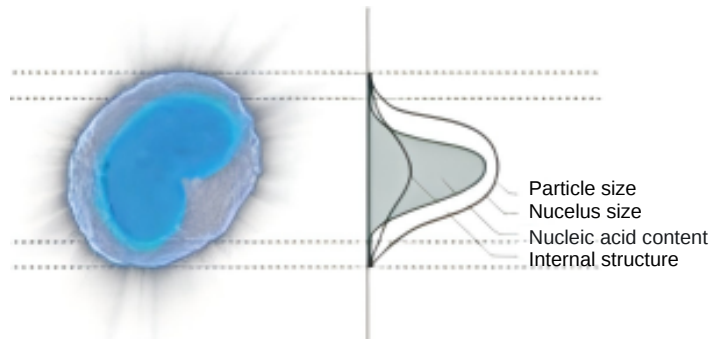
Technical Advantages

● Nucleic Acid Fluorescence Staining

- ◆ Nucleic acid fluorescence staining technology is used for WBC and RET classification and counting.
- ◆ The fluorescent dye enters the WBCs and binds to the nucleus. The fluorescence irradiated by laser is proportional to the amount of nucleic acid.
- ◆ Based on this principle, the analyzer can detect the content of DNA and RNA in the cell by fluorescence intensity.



Fluorescence stained WBC



Fluorescence intensity & cell structure

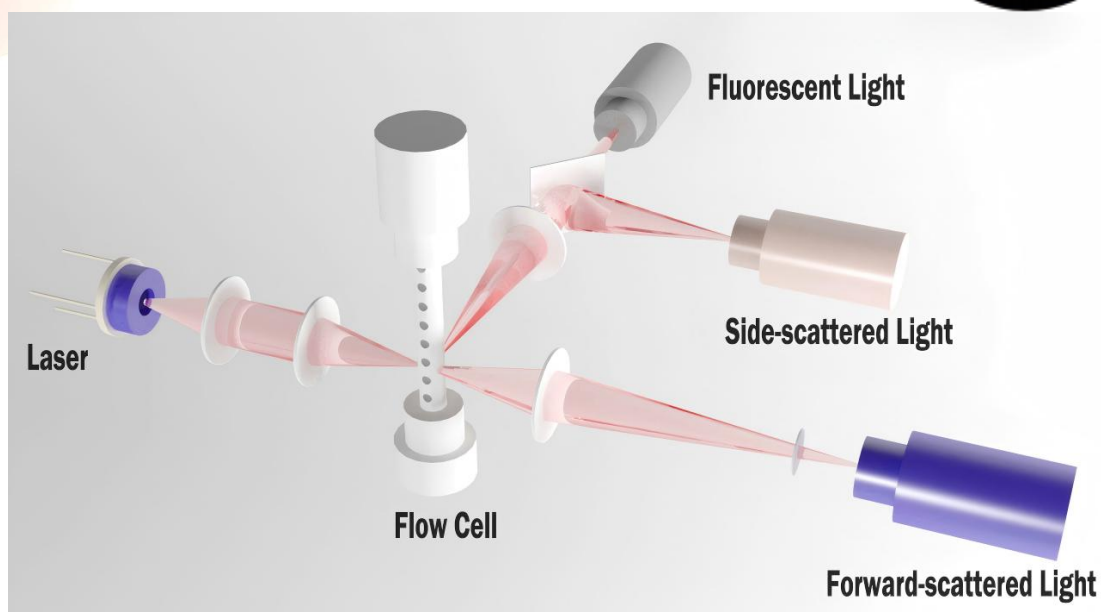
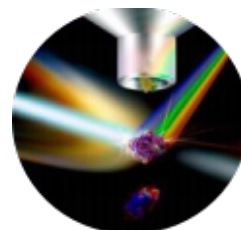
● Flow Cytometry - Hydrodynamic Focusing

- ◆ Red blood cells and platelets are measured using sheath flow impedance technology. This method utilizes a sheath fluid to focus the sample cells into a single file.
- ◆ As a result, the cells pass through the center of the gemstone orifice one by one, without overlapping or interference from other substances. This significantly improves signal stability and accuracy.
- ◆ Compared to traditional impedance methods, this technology provides a higher signal-to-noise ratio and more accurately reflects cell volume and count.
- ◆ In addition, sheath flow impedance technology demonstrates superior performance in detecting both low and high cell counts, offering enhanced sensitivity and accuracy.



● Semi-conductor Laser Scattering Technology

The measurement signals related to forward scatter, side scatter and side fluorescence are analysed and depicted in different 2D and 3D scattergrams. Cells with similar cytochemical properties fall within the same area in the scattergram and can be separated using an advanced software algorithm.

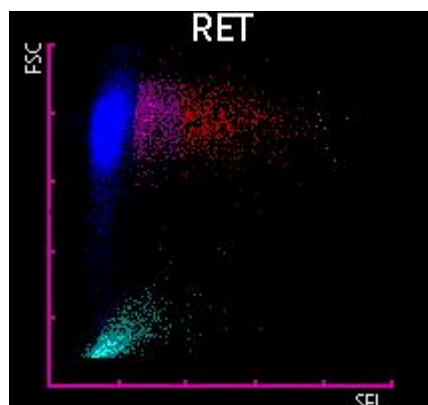
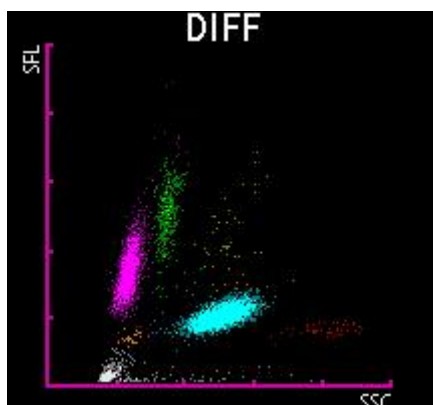


Performance

Parameters	Linearity	CV	Carryover
WBC	0~500×10 ⁹ /L	≤ 2.5% (≥ 3.50×10 ⁹ /L)	≤ 0.5%
RBC	0.00~8.60×10 ¹² /L	≤ 1.5% (≥ 3.50×10 ¹² /L)	≤ 0.5%
HGB	0~260g/L	≤ 1.0% (110g/L~180g/L)	≤ 1.0%
HCT	0.0~75.0%	≤ 1.5% (30%~50%)	≤ 0.5%
PLT	0~5000×10 ⁹ /L	≤ 4.0% (≥ 100×10 ⁹ /L)	≤ 1.0%
RET#	0~0.8×10 ¹² /L	≤ 15.0% (RBC ≥ 3.00×10 ¹² /L , RET % 1.00 - 4.00%)	/
RET%	0~30.0%	≤ 15.0% (RBC ≥ 3.00×10 ¹² /L , RET % 1.00 - 4.00%)	/

Hemax 60

Scatter Diagram



Specifications& Parameters

Reportable Parameters (35)	WBC, NEUT%, NEUT#, LYMPH%, LYMPH#, MONO%, MONO#, EO%, EO#, BASO%, BASO#, IG%, IG#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-SD, RDW-CV, PLT, MPV, PDW, PCT, P-LCC, P-LCR, IRF, IPF, LFR, MFR, HFR, RET%, RET#, RET-He		
Research Parameters (27)	PLT-I, PLT-O, WBC-C, WBC-D, TNC-D, RBC-O, Macro#, Micro#, Macro%, Micro%, NEUT#&, NEUT%&, LYMP#&, LYMP%&, HFLC#, HFLC%, RBC-He, Delta-He, RPI, HYPO-He, HYPER-He, RET-UPP, RET-TNC, FRC#, FRC%, NRBC#, NRBC%		
Body Fluid Parameters (7)	WBC-BF, TC-BF#, MN#, MN%, PMN#, PMN%, RBC-BF	BF Research Parameters	11
Analysis Mode	CBC, CBC+DIFF, RET, CBC+DIFF+RET	Throughput	CD: 60T/H CDR: 40T/H
Sampling Mode	Open mode	Sample Volume	CD: 20uL CDR: 25uL
Hematology Reagent	6	Graphic Parameters	3D scattergram*1, scattergram*4, histograms*2
Dimensions	315mm(W)*515mm(L) *420(H)	Weight	28Kg



B&E Bio-technology Co.,Ltd.

Add: No.11 Jieaisi Road, Laishan District, Yantai City, China

Tel: +86 535 6718181

www.besic.com

Visit our website for contact information of our regional sales managers.