



# ES-HEM 4000

**Automatic 29 parameters Hematology Analyzer**



The ES-HEM 4000 is a five-part differential fully automatic hematology analyzer, adopting semiconductor laser flow cytometry combined with cytochemical staining technique to ensure accurate results.

Throughput: 60 samples/hour

- 29 report parameters, 10 research parameters
- Whole blood, pre-diluted blood
- CBC mode, CBC+DIFF mode
- Sample volume: 20  $\mu$ L
- Auto and continuous sampling capacity up to 50 tubes.
- STAT loader (4 types of tubes available)
- Environmental friendly cyanide-free reagents
- Large storage capacity up to 100,000 samples including 1 scattergram, 4 histograms and patients information.

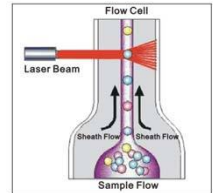


**Pulse Healthcare Technology**

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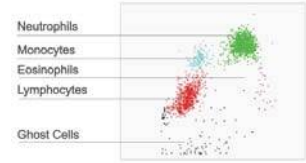
**Semiconductor laser flow cytometry combined with cytochemical staining:**

This Automatic Hematology Analyzer adopts high stability, long life and an economical semiconductor laser as light source of cell flow analysis system. Multi-angle laser scattering for accurately test cell size, cell nucleus, cell granular content and its complexity information. Combined with cytochemical staining technique it conducts the differential for WBCs. At the same time, screening out the abnormal cells, the screening rate of abnormal sample is greatly increased.



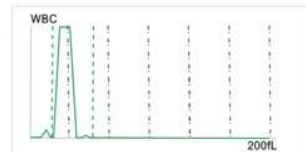
**Dual-channel WBCs 5-diff.:**

Diff channel: Lyse dissolves RBCs and hemoglobin conducting specific stain of eosinophils. Lymphocytes, monocytes, neutrophils and eosinophils will be distinguished and displayed in the DIFF channel through the detection of semiconductor laser flow scattering technique,



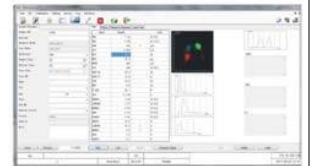
**BASO channel:**

Dedicated lyse agent keeps basophils in their original form, other cells dissolve or atrophy. Basophils and WBCs number can be accurately tested.



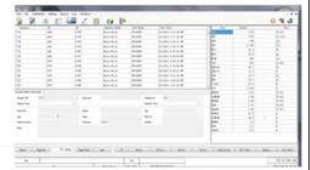
**English operating interface and data management system:**

English operating system and graphical operating interface contribute to easy and clear operations. A variety of functions, such as counting, QC, data review and service are provided. USB and network ports, available for LIS connection, provide an adequate expansion space for the equipment.



**Accurate screening function:**

Built-in re-examination rules, accurately screening off of abnormal samples that need to be re-examined. It improves the screening ability. Users can define the re-examination rules according age, genre etc.. The most accurate test results are provided.



**Specifications:**

Test Item	WBC, RBC, HGB, HCT, MCV, MCH, MCHC, PLT, NEUT%, LYMPH%, MONO%, EO%, BASO%, NEUT#, LYMPH#, MONO#, EO#, BASO#, RDW-SD, RDW-CV, PDW, MPV, PCT, P-LCR
Research Parameter	BLAST#, IMM#, LEFT#, BLAST%, IMM%, LEFT%, ABNLYM#, NRBC# ABNLYM%, NRBC%
Test Principle	Semiconductor laser flow cytometry combined with cytochemical staining. Impedance, cyanide free colorimetry environmental friendly
Throughput	60 samples/hour
Analysis Mode	CBC mode, CBC+DIFF mode
Sample Type	Whole blood, pre-diluted blood
Sampling Device	Automatic sampling coupled with emergency access position (4 types tube are accessible)
Data Storage	Storage capacity of 100,000 patients' results, including scattergram, Histogram and patients' informations.
Language	English
Display Type	External Computer
Report Form	A variety of print formats can be pre-programmed User-defined format is also available
Expansion Fuction	USB port, internet port, support U-Disk, printer, mouse and keyboard, etc
Power	100-240V 50Hz/60Hz



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