

**HEMA-3000**

## 5-Part-Diff Auto Hematology Analyzer



**Laser light and impedance  
measurements on WBC**





- Laser light multi-dimensional cell classification
- Double mode for WBC count (Impedance Count and Optical Count)
- Resistant: RBC mode
- Sample rotary valve quantification technique
- Up to 110 samples per hour
- Walk-away automation, high efficiency and accuracy
- WBC 5 part diff with sheath reagent only.
- Semiconductor laser based flow cytometry for WBC Differential with specific staining to stain nucleic acid content of cells which generate fluorescence to differentiate between abnormal cell and normal cells.

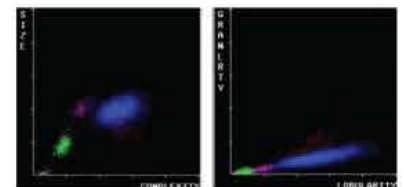
**Helium-neon laser light scatter:**

HEMA-3000 Auto Hematology Analyzer uses helium-neon laser for the flow cytometry system. Through calculations of different angles via laser scatter the instrument provides complete analysis including cell size, granularity and complexity.



**One channel give complete differentiate WBC:**

HEMA-3000 counts lymphocyte, monocyte, Neutrophil, eosinophil and basophil in WOC channel.

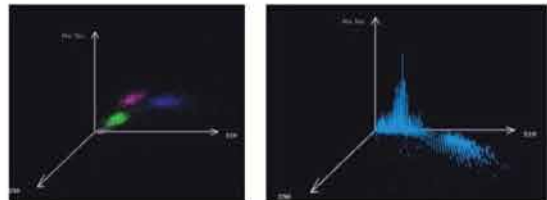


### Smample Rotatory valve (SRV):

- High precision
- Easy maintenance
- Blood sensor monitors aspiration volume



### 3D stereograms:



### Specification:

27 parameters	<p>WBC, LYM%, MON%, NEU%, EOS%, BAS%, LYM#, MON#, EOS#, BAS%, LYM#, MON#, NEU#, EOS#, BAS#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW_CV, RDW_SD, PLT, MPV, PDW, PCT, P_LCR, RETIC%, RETIC_ABS, IRF</p> <p>3 Histograms for WBC, RBC and PLT</p> <p>3 Scatter grams: 5-part differential scatter gram Eosinophils and Neutrophils scatter gram</p> <p>3 3-D stereograms</p>
Predefined 8 species	Dog, Horse, Cattle, Mouse, Rat, Guinea Pig, Rabbit and pig
Principles of operation	<p>WBC 5-part:flow Cytometry (FCM)+ 4 Angles laser light scatter</p> <p>WBC Analysis: Optical and impedance measurements</p> <p>RBC/PLT Analysis: Impedance method</p> <p>HGB test: Cyanide-free reagent colorimetry</p> <p>RET test: Flow Cytometry (FCM)+ laser light scatter + Chemical dye method</p>
Sampling modes	Auto loader 160µL, Manual mode 160µL, Pre-diluted mode 40µL
Aperture Diameter	WBC 100 um, RBC/PLT 80 um
Throughput	<p>Auto loader upto 110 samples per hour</p> <p>Manual mode upto 100 samples per hour</p>
Sampling Device	<p>Automatic sampling device with a capacity of 120 samples</p> <p>10 samples x 12 racks, auto built-in barcode reader</p>
Quality control	very high accuracy and reproducibility option for self check, sampling, priming, cleaning, clog removal, and waste fluid treatment
Linearity	<p>WBC should be from 0 to 4,40,000 cells/µL,</p> <p>PLT should be from 0 to 50,00,000 cells/µL</p>
Data Storage	Up to 200,000 sample results with grams
Alarms	Error messages
Display	PC display with Linux system, 15 inch colour LCD display
Interface	RS232 interface
Dimension	760 mm x 684 mm x 676.5 mm

## Regulatory compliances



## Corporate Social Responsibility



- Analytical Foundation is a nonprofit organization (NGO) founded for the purpose of:
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  2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.
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## Reach us @



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