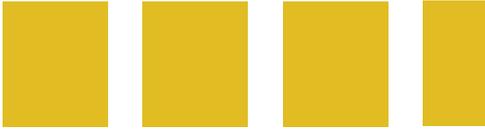


**HEMA-3000**

## 6-Part-Diff Auto Hematology Analyzer



6-Part-Diff  
Auto Hematology Analyzer



**Laser light and impedance  
measurements on WBC**

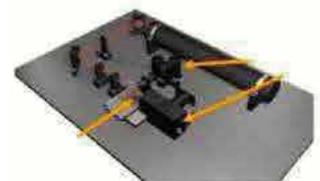




- Laser light multi-dimensional cell classification
- Double mode for WBC counting (Impedance Count and Optical Count)
- Resistant: RBC mode
- Sample rotatory valve quantification technique
- Up to 110 samples per hour
- Walk-away automation, high efficiency and accuracy
- WBC 6 part diff with sheath 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.
- The System have auto probe Wiper to clean the sample probe automatically after sample aspiration.
- The system have automatic floating threshold for correct separation of WBC, RBC's and platelets during overlap of microcytosis.
- Able to perform all blood counts from whole blood and blood components at different dilutions for the purpose of quality control.
- Online voltage corrector.
- Built-in thermal printer connected to external computer and printer.

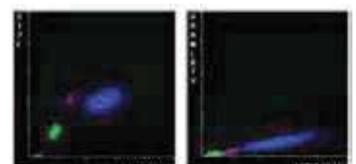
#### Helium-neon laser light scatter:

HEMA-3000 Auto Hematology Analyzer uses helium-neon laser for the flow cytometry system. Through calculations of different angles via laser scatters 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.

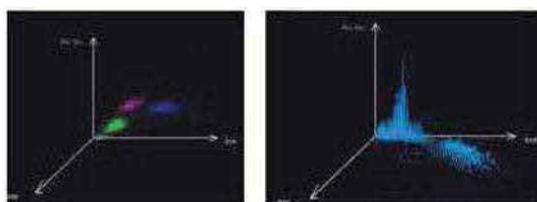


### Sample Rotatory valve (SRV):

- 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 RBC, WBC and PLT</p> <p>2 Scatter grams: 6-part differential scatter gram Eosinophils and Neutrophils scatter gram</p> <p>2 3-D stereograms</p>
Principles of operation	<p>WBC 6-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, Auto stop function available.
Aperture Diameter	WBC 100 um, RBC/PLT 80 um
Throughput	Auto loader upto 110 samples per hour Manual mode upto 100 samples per hour
Sampling Device	Automatic sampling device with a capacity of 120 samples 10 samples x 12 racks, auto built-in barcode reader
Linearity	WBC should be from 0 to 4,00,000 cells/µL, PLT should be from 0 to 50,00,000 cells/µL
Data Storage	Up to 200,000 sample results with grams
Alarms	Error messages
Display	PC display with Linux system, 15 inch colour LCD display
Dimension	760 mm x 684 mm x 676.5 mm
Sample type	Venous blood, peripheral blood, Pre-dilution peripheral blood and various dilutions of blood.
Power supply	220/240 volts, 50/60Hz
Interface	USB for printer, mouse and keyboard, internet port.

## Regulatory compliances



## Corporate Social Responsibility

Analytical Foundation is a Nonprofit Organization (NGO) found for the purpose of:



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2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

## Reach us @



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