



# AUTO HEMATOLOGY ANALYZER

Model: BS-100



## Unique Functions

- 21 parameters+3 histograms
- 3-part differentiation of WBC
- 2 Counting mode: whole blood and prediluted
- Double Chamber Counting
- Up to 60 samples per hour
- Color LCD with mouse/keyboard operation
- Built-in thermal printer, optional external printer
- External AC adapter avoids electronic noi
- Up to 50000 sample results (including histograms) can be stored
- Multi-language software available on request
- Original factory's blood control and calibrator



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## Software Interface

The software interface includes several key windows:

- Sample Profile:** A form for entering patient information such as Name, Sex, Age, Sample Type, Medical No., and Department.
- Sample Test:** A window displaying test results for various parameters (WBC, RBC, HGB, etc.) and histograms for WBC, RBC, and PLT.
- Auto Calibration:** A window for setting up automatic calibration for various parameters.
- L-J QC Setting:** A window for configuring Levey-Jennings (L-J) quality control settings.
- Manual Calibration:** A window for manually adjusting calibration values for specific parameters.

## Technical Specifications

### General Descriptions

Parameters :

WBC, LYM#, MON#, GRA#, LYM%  
 MON%, GRA%, RBC, HGB, MCHC  
 MCH, MCV, RDW-CV, RDW-SD, HCT,  
 PLT, MPV, PDW, PCT, P-LCR and total Cir.  
 Eosinophil and Histograms for WBC  
 RBC and PLT

### Principles:

Electrical resistance for counting  
 WBC, RBC and PLT

### Performance:

Parameter Precision (CV %)  
 WBC (10<sup>9</sup>/L) 2.0(7.0-15.0)  
 RBC (10<sup>12</sup>/L) 1.5(3.50-6.00)  
 HGB (g/L) 1.5(110 – 180)  
 MCV (fL) 0.4(80.0 – 110.0)  
 PLT (10<sup>9</sup>/L) 4(100 – 500)

### Sample Volume:

Prediluted 20µL  
 Whole Blood 9.8µL

### Aperture Diameter:

WBC 80µm, RBC 50µm  
 Throughput:60 samples per hour  
 Display :Color LCD Resolution: 640×480  
 Alarms: error messages  
 Carryover: WBC/RBC/HGB<0.5%,PLT<1.0%  
 Input/Output:RS-232, USB, LAN, keyboard  
 and mouse interface  
 Printout: Thermal recorder, 55mm width paper,  
 various printout formats, external printer optional

### Operating Environment

Temperature: 15°~35°  
 Humidity: 10%~90%  
 Power requirement: AC 110-220V, 50/60Hz  
 Dimension L×W×H (mm): 436×363×367  
 Weight : 18Kg

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