

Close structure

EMI, dust, etc.

Shield from interference:

5-part differentiation, 29 parameters,

BC-5800

2 histograms + 2 scattergrams

Auto Hematology Analyzer

Up to 90 samples per hour Laser scatter + Chemical dye + Flow

for Basophil measurement

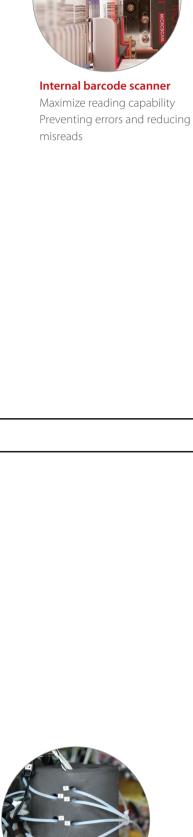
- cytometry technology Independent channel and optical method
- Optional autoloader, barcode scanner Large TFT touch screen

Powerful capability to flag abnormal cells

Recommended or customizable decision

- Large storage capacity: up to 40,000 samples
- rules to re-exam abnormal samples Support uni- or bi-directional LIS







User-friendly software

Dual acceleration flow cell system

Laser light scatter

cell size, granularity and complexity.

Heater makes the laser more stable

Chemical dye method by original reagents

The basophils and eosinophils can be accurately differentiated by the unique chemical dye method. The Mindray original reagents, control and calibrator is a complete system to ensure high accuracy.

allow for accurate measurement via laser scatter.

Dual acceleration flow cell system reduces the velocity gap between sheath flow and blood cells, ensuring a more stable signal, which

BC-5800 hematology analyzer utilizes the semiconductor laser for the flow cytometry system. Through calculations of different angles via laser scatters, the instrument provides complete analysis including



complexity

Bas

The comparison on histogram

Lvm Mon Neu Eos

After Digital Sheath Flow

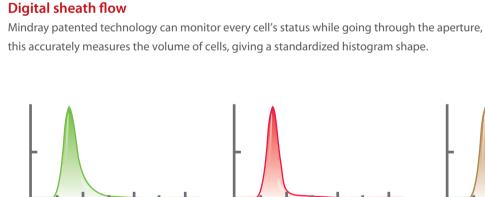
complexity

Other WBC

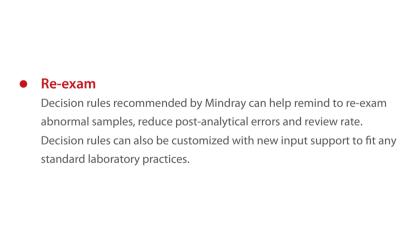
in Diff channel, and basophil in a separated Baso channel. Optical method to test Basophil: more information about cell physiology, more reliable.

BC-5800 counts lymphocyte, monocyte, neutrophil and eosinophil

2 separate channels to differentiate WBC



Before Digital Sheath Flow



Various formats report & User-defined formats report

Report formats: 4 Pre-defined formats & 4 User-defined formats.

Paper: A4, A5, Letter, Continuous Paper.

Mindray original control and calibrator.

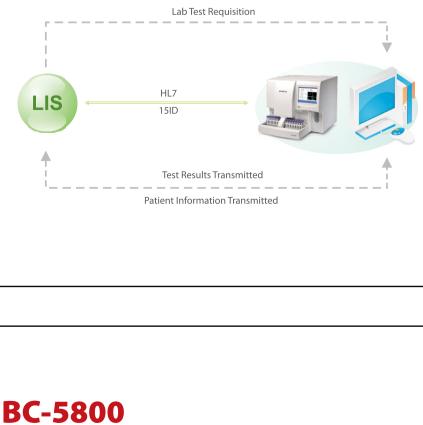
and range values through USB disk.

Provides 60 QC files, each file can save 310 QC results.

Import QC information including lot No., level, exp. date, mean

- Memory can hold up to 40,000 patient results Save previous results with graphic and numeric information.

Quality control



Data Management Software (DMS) With DMS, data can be transmitted to PC. DMS is a standard configuration of BC-5800 to meet different laboratories' demand, and offer more customization on report, data editing and net connection.

Uni- or Bi-directional LIS

in bi-directional mode.

Transmit test results and patient information

Support HL7 and 15ID communication

Easily be integrated into your laboratory

organization.

Impedance method for RBC and PLT counting Cyanide free reagent for hemoglobin test Flow Cytometry (FCM) + Laser light scatter + Chemical dye method for WBC differential analysis and WBC counting

Auto Hematology Analyzer

29 parameters: WBC, Lym%, Mon%, Neu%, Bas%, Eos%, Lym#, Mon#, Neu#, Eos#, Bas#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCR, P-LCC. 4 Research parameters include LIC%, LIC#, ALY%, ALY#

Technical Specifications

Principles

2 Histograms for RBC and PLT 2 Scatter grams: 4-differential scatter gram, Basophil scatter gram Diluent, LEO(I), LEO(II), LBA, LH, Cleanser

WBC $0-8.2\times10^{12}/L$ **RBC** HGB 0-260g/L

 $\leq 1.5\% (3.5-6.0\times10^{12}/L)$ ≤1.5% (110-180g/L) **HCT** 0-67% ≤1.5% (30%-50%) PLT 0-2000×10⁹/L ≤4.0% (150-500×10⁹/L) Sample Volume Prediluted $40~\mu L$ Manual mode (Open vial) 120 μL Auto loader/Manual mode (Closed tube) 180 μL

Throughput Up to 90 samples per hour

Support Uni- or bi-directional LIS External Laser printer / Inkjet printer, various printout formats and User-defined formats

Multi-language

Data Storage Capacity

Communication

USB, LAN, COM

Operating Environment Temperature: 15°C~30°C Humidity: 30%~85% Power requirement

100-240V~50Hz

110/115V~50/60Hz

Chinese, Czech, English, French, German, Greek, Italian, Polish,

Up to 40,000 results including numeric and graphical information

Portuguese, Romanian, Russian, Spanish, Turkish

LAN Port supports HL7 and 15ID protocol

Main unit: Pneumatic unit:

Carryover

≤0.5%

220/230V~50/60Hz **Dimension and Weight** Main unit Pneumatic unit Width (mm) 664 305

Weight (kg) ≤76

Depth (mm) 613 475 237 Height (mm) 585 425 90 ≤25 ≤8

Sample loader (Optional)

516

mindray $Mindray\ is\ listed\ on\ the\ NYSE\ under\ the\ symbol "MR"$ $Mindray\ Building, Keji\ 12th\ Road\ South, High-tech\ Industrial\ Park,$ Nanshan, Shenzhen 518057, P.R. China Tel: +86 755 26582888 Fax: +86 755 26582680 E-mail: intl-market@mindray.com Website: www.mindray.com

All reagents configured liquid sensor Performance Parameter Linearity Range

Precision 0-200×10⁹/L $\leq 2.5\% (4-15\times10^9/L)$

≤0.5% ≤1.0% ≤0.5% ≤1.0%

10.4 inch TFT Touch Screen Resolution: 800×600

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PNI: ENG-B-G5800-21285x6-20100201