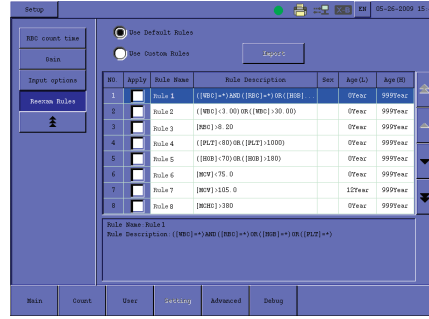


**Re-exam**

Decision rules recommended by Mindray can help remind to re-exam abnormal samples, reduce post-analytical errors and review rate. Decision rules can also be customized with new input support to fit any standard laboratory practices.



**Various formats report & User-defined formats report**

Paper: A4, A5, Letter, Continuous Paper.  
Report formats: 4 Pre-defined formats & 4 User-defined formats.

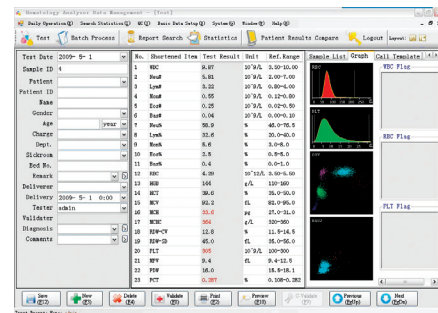
**Quality control**

Mindray original control and calibrator.  
Provides 60 QC files, each file can save 310 QC results.  
Import QC information including lot No., level, exp. date, mean and range values through USB disk.



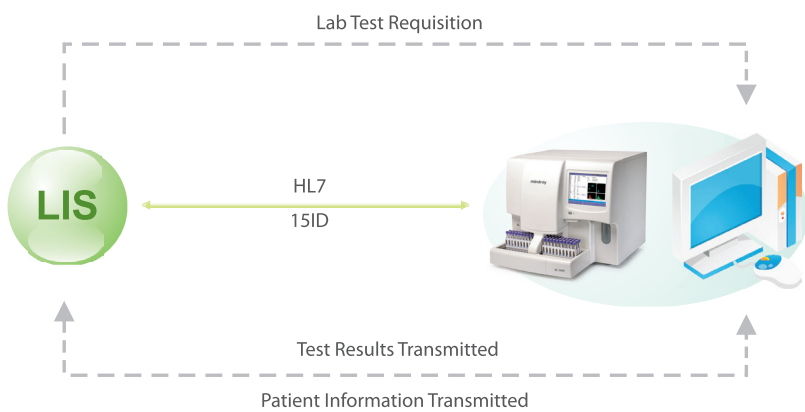
**Memory can hold up to 40,000 patient results**

Save previous results with graphic and numeric information.



**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**

Transmit test results and patient information in bi-directional mode. Support HL7 and 15ID communication protocol. Easily be integrated into your laboratory organization.

# BC-5800

## Auto Hematology Analyzer

**Technical Specifications**

**Principles**

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

**Parameters**

25 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#  
2 Histograms for RBC and PLT  
2 Scatter grams: 4-differential scatter gram, Basophil scatter gram

**Reagent**

Diluent, LEO(I), LEO(II), LBA, LH  
All reagents configured liquid sensor

**Performance**

Parameter	Linearity Range	Precision	Carryover
WBC	0-250×10 <sup>9</sup> /L	≤2.5% (4-15×10 <sup>9</sup> /L)	≤0.5%
RBC	0-8.2×10 <sup>12</sup> /L	≤1.5% (3.5-6.0×10 <sup>12</sup> /L)	≤0.5%
HGB	0-260g/L	≤1.5% (110-180g/L)	≤1.0%
HCT	0-67%	≤1.5% (30%-50%)	≤0.5%
PLT	0-2000×10 <sup>9</sup> /L	≤4.0% (100-500×10 <sup>9</sup> /L)	≤1.0%

**Sample Volume**

Prediluted	40 µL
Manual mode (Open vial)	120 µL
Auto loader/Manual mode (Closed tube)	180 µL

**Throughput**

Up to 90 samples per hour

**Display**

10.4 inch TFT Touch Screen  
Resolution: 800×600

**Multi-language**

Chinese, Czech, English, French, German, Greek, Italian, Polish, Portuguese, Romanian, Russian, Spanish, Turkish

**Data Storage Capacity**

Up to 40,000 results including numeric and graphical information

**Communication**

LAN Port supports HL7 and 15ID protocol

**Interface**

USB, LAN, COM  
Support Uni- or bi-directional LIS

**Printout**

External Laser printer / Inkjet printer, various printout formats and User-defined formats

**Operating Environment**

Temperature: 15°C~30°C  
Humidity: 30%~85%

**Power requirement**

Main unit: 100-240V~50/60Hz  
Pneumatic unit: 110/115V~60Hz  
220/230V~50/60Hz

**Dimension and Weight**

	Main unit	Pneumatic unit	Sample loader (Optional)
Width (mm)	664	305	516
Depth (mm)	613	475	237
Height (mm)	585	425	90
Weight (kg)	≤76	≤25	≤8

# BC-5800

## Auto Hematology Analyzer



Mindray Building, Keji 12th Road South, High-tech Industrial Park, Nanshan, Shenzhen 518057, P.R. China  
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Mindray is listed on the NYSE under the symbol "MR"

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PIN: ENG-BC5800-21285x6-20121211

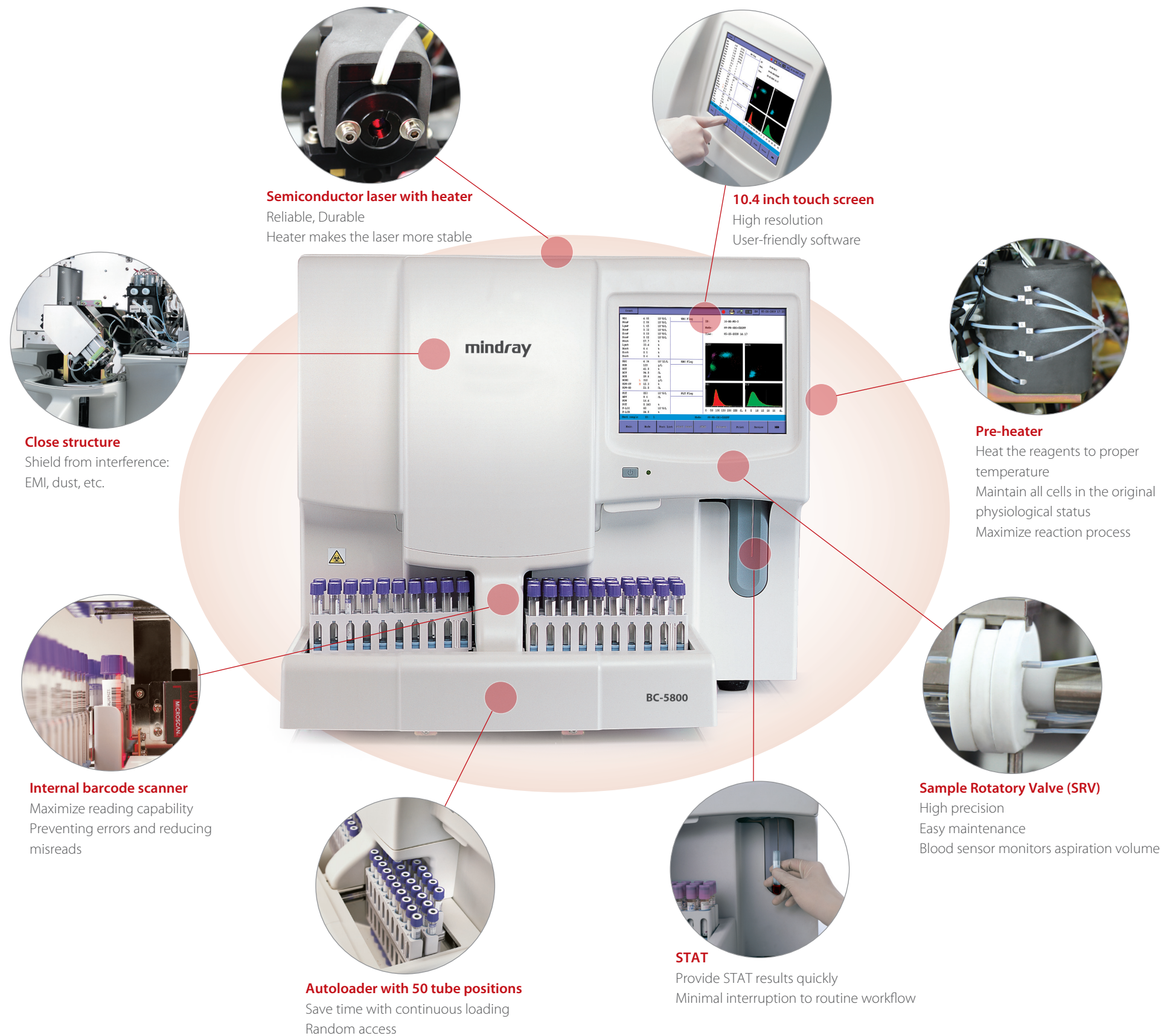


**mindray**  
healthcare within reach

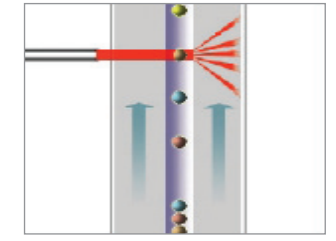
# BC-5800

## Auto Hematology Analyzer

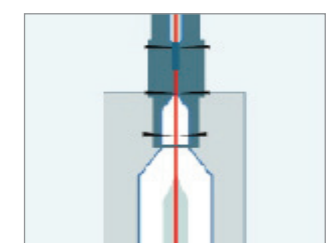
- 5-part differentiation, 25+4 parameters, 2 histograms + 2 scattergrams
- Up to 90 samples per hour
- Laser scatter + Chemical dye + Flow cytometry technology
- Independent channel and optical method for Basophil measurement
- Powerful capability to flag abnormal cells
- Optional autoloader, barcode scanner
- Large TFT touch screen
- Large storage capacity: up to 40,000 samples
- Recommended or customizable decision rules to re-exam abnormal samples
- Support uni- or bi-directional LIS



• **Laser light scatter**  
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 cell size, granularity and complexity.



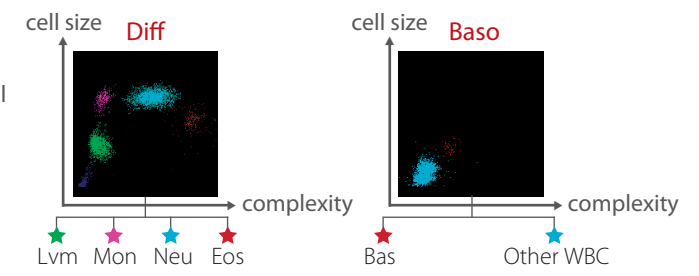
• **Dual acceleration flow cell system**  
Dual acceleration flow cell system reduces the velocity gap between sheath flow and blood cells, ensuring a more stable signal, which allow for accurate measurement via laser scatter.



• **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.



• **2 separate channels to differentiate WBC**  
BC-5800 counts lymphocyte, monocyte, neutrophil and eosinophil in Diff channel, and basophil in a separated Baso channel. Optical method to test Basophil: more information about cell physiology, more reliable.



• **Digital sheath flow**  
Mindray patented technology can monitor every cell's status while going through the aperture, this accurately measures the volume of cells, giving a standardized histogram shape.

