MINDRAY

BC-5500
Auto Hematology Analyzer

NEW

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Utilizing Flow Cytometry (FCM), laser scatter technology and an innovative chemical dye method, BC-5500 offers a complete WBC 5-part differentiation analysis with accurate results. Furthermore BC-5500's auto loader function enhances walk-away automation and convenience.

- 5-part differentiation, 27 parameters, 2 histograms+2 scattergrams

- Laser scatter technology combined with chemical dye method, Flow Cytometry

- 2 Counting modes: whole blood and prediluted

- Up to 80 samples per hour

- Blood dispensed with Shear Valve enhanced high accuracy

- Independent channels for Basophil measurement

- Ability to flag abnormal cells

- Optional Auto Loader, Bar code scanner

- Large TFT touch screen

- Large storage capacity: up to 40,000 samples

Laser light scatter and unique chemical dye method

BC-5500 hematology analyzer utilizes the reliable and economical semiconductor laser as the light source for the flow cytometry system. Through analysis of different angles of laser scatters, the instrument provides complete analysis including cell size, granularity and complexity. In addition, the basophils and eosinophils can be accurately differentiated by the unique chemical dye method.
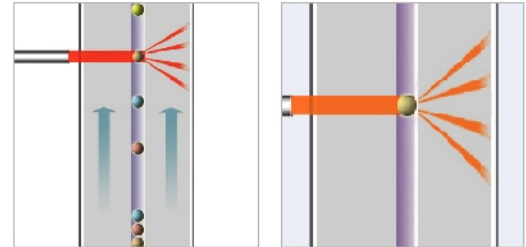
Dual Acceleration Flow cell system

Dual acceleration flow cell system reduces the velocity gap between sheath flow and blood cells, ensuring a more stable signal. Through the use of an unique reagent treatment and hydrokinetics, single blood cell flow is facilitated allowing for accurate measurement via laser scatter.
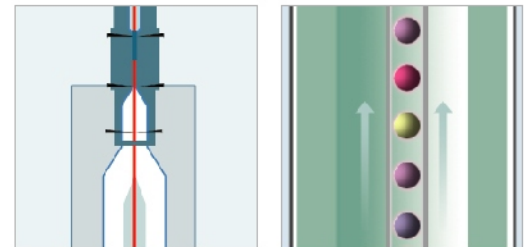
Two scattergrams

Neutraphils, Lymphocytes, Monocytes, Eosinophils and Basophils can be displayed in BC-5500's scattergrams. Through the combination of an independent Basophil channel and special reagents the BC-5500 can facilitate hemolysis, Basophil staining and Basophil measurement. This combination of technology also minimizes analysis interference from hard-to-dissolve red blood cell, giant platelet, platelet clumping, and other noncellular particles.
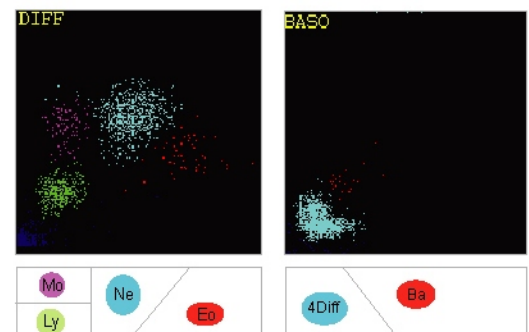
## Superior ability to flag abnormal cells

Utilizing laser scatter technology and chemical dye method, BC-5500 can flag abnormal cells. Through a complete CBC analysis, the instrument can identify abnormal and suspect information as well as atypical lymphocytes, giant immature cell detection, and flag abnormal cells to help decide if sample needs recount.
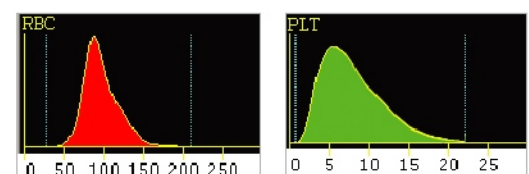
High performance

Accurate blood dispense system

BC-5500's advanced ceramic Sheer valve platform accurately segments blood with high precision. Sheer valve is also highly smooth and durable, allowing for easy cleaning and care.
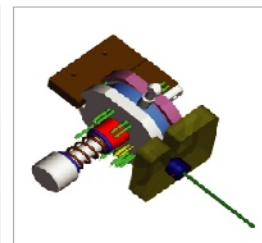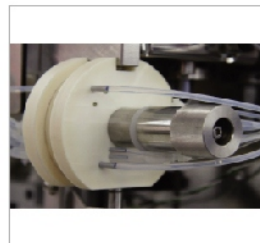
Auto loader

Up to 50 sample tubes; Throughput: 80samples/hour;
A system designed to streamline laboratory workflow and achieve long-term economic benefits.
Closed tube sampling to avoid biohazard

Convenient sample results review

40,000 sample results with 27 parameters, 2 scattergrams, 2 histograms with abnormal cell information can be searched, monitored, analyzed via trendlines and printed out.
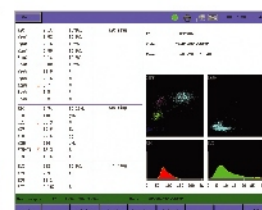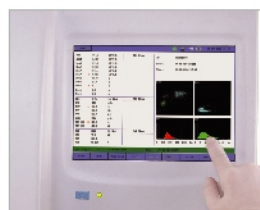
STAT sample insertion

BC-5500 allows clinicians to insert high priority samples during operation to facilitate emergency analysis.

User friendly

Large TFT touch screen and customizable software.

Multiple discrete testing modes

Offers multiple discrete testing modes and real time random access analysis for testing versatility.

Whole Blood/Prediluted

CBC	CBC+5DIFF

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Technical Specifications:

Principles

Impedance resistance for counting RBC and PLT and SFT method for hemoglobin
Flow Cytometry (FCM)+Laser light scatter for WBC differential analysis

Parameters

WBC, Lym#, Mon#, Neu#, Bas#, Eos# Lym%, Mon%, Neu%, Bas%, Eos%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT.4 Research parameters includes LIC#, LIC%, ALY#, ALY%
2 histograms for RBC and PLT;
2 scatter grams: Basophils Scatter grams, 4 differential Scatter grams

Performance

Parameter	Linearity Range
WBC (10^9/L)	1.00-99.99
RBC (10^{12}/L)	0.30-10.00
HGB (g/L)	1-300
PLT (10^9/L)	10-1000

Sample Volume

Prediluted	40uL
Manual mode (Open sampling)	120uL
Auto loader/Manual mode (Closed tube)	180uL

Throughput

Up to 80 samples per hour

Display

10'4 inch TFT Touch Screen
Resolution: 800x600

Menu

Count, Review, QC, Setup, Service, Calibration, Logout, Shutdown

Carry over

WBC, RBC, HGB, PLT<1.0%

Interface

USB, LAN

Printout

External Laser printer/ Inkjet printer, various printout formats

Operating Environment

Temperature: 15℃~30℃
Humidity: 30%~85%

Power requirement

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

Dimension and Weight

	Main unit	Compressor	Sample loader (optional)
Length(mm)	660	420	516
Width (mm)	600	310	220
Height(mm)	583	435	90
Weight (Kg)	73	22.4	6.1

DISTRIBUTOR: