

## BC-21s

Auto Hematology Analyzer

### Technical Specifications

**Principles**  
 Impedance method for WBC, RBC and PLT counting  
 Cyanide free reagent for hemoglobin test

**Performance**

Parameter	Linearity Range	Precision (CV %)	Carryover
WBC( $10^9/L$ )	0-100	$\leq 3.5\%$ (4.0-6.9) $\leq 2.0\%$ (7.0-15.0)	$\leq 0.5\%$
RBC( $10^{12}/L$ )	0-8.00	$\leq 1.5\%$ (3.5-6.5)	$\leq 0.5\%$
HGB(g/L)	0-280	$\leq 1.5\%$ (100-180)	$\leq 0.5\%$
MCV(fl)		$\leq 1.0\%$ (70-110)	
PLT( $10^9/L$ )	0-1000	$\leq 5.0\%$ (100-149) $\leq 4.0\%$ (150-500)	$\leq 1.0\%$

**Parameters**  
 21 parameters: WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, PLCR, P-LCC

**Reagent**  
 M-30D DILUENT  
 M-30CFL LYSE  
 PROBE CLEANSER

**Sample Volume**  
 Prediluted mode 20 $\mu$ L  
 Whole blood mode 9 $\mu$ L

**Throughput**  
 60 samples per hour

**Display**  
 8.4 inch TFT Touch Screen

**Multi-language**  
 Chinese, English, Spanish, Portuguese, Russian, French, Bahasa Indonesia

**Data Storage Capacity**  
 Up to 200,000 results including numeric and graphical information

**Communication**  
 LAN Port supports HL7 protocol  
 Support bi-directional LIS

**Interface**  
 4 USB port (for external printer, software upgrade, barcode reader, WIFI adapter, keyboard and mouse), LAN port (1)

**Printout**  
 Thermal recorder, 50 mm wide paper, various printouts formats  
 External printer optional

**Operating Environment**  
 Temperature: 10°C~40°C  
 Humidity: 10%~90%  
 Air pressure: 70kPa~106kPa

**Power Requirement**  
 100V-240V  
 $\leq 300VA$   
 50Hz/60Hz

**Dimension and Weight**  
 Dimension: Depth(410 mm) x width(300 mm) x height(400 mm)  
 Weight:  $\leq 20kg$

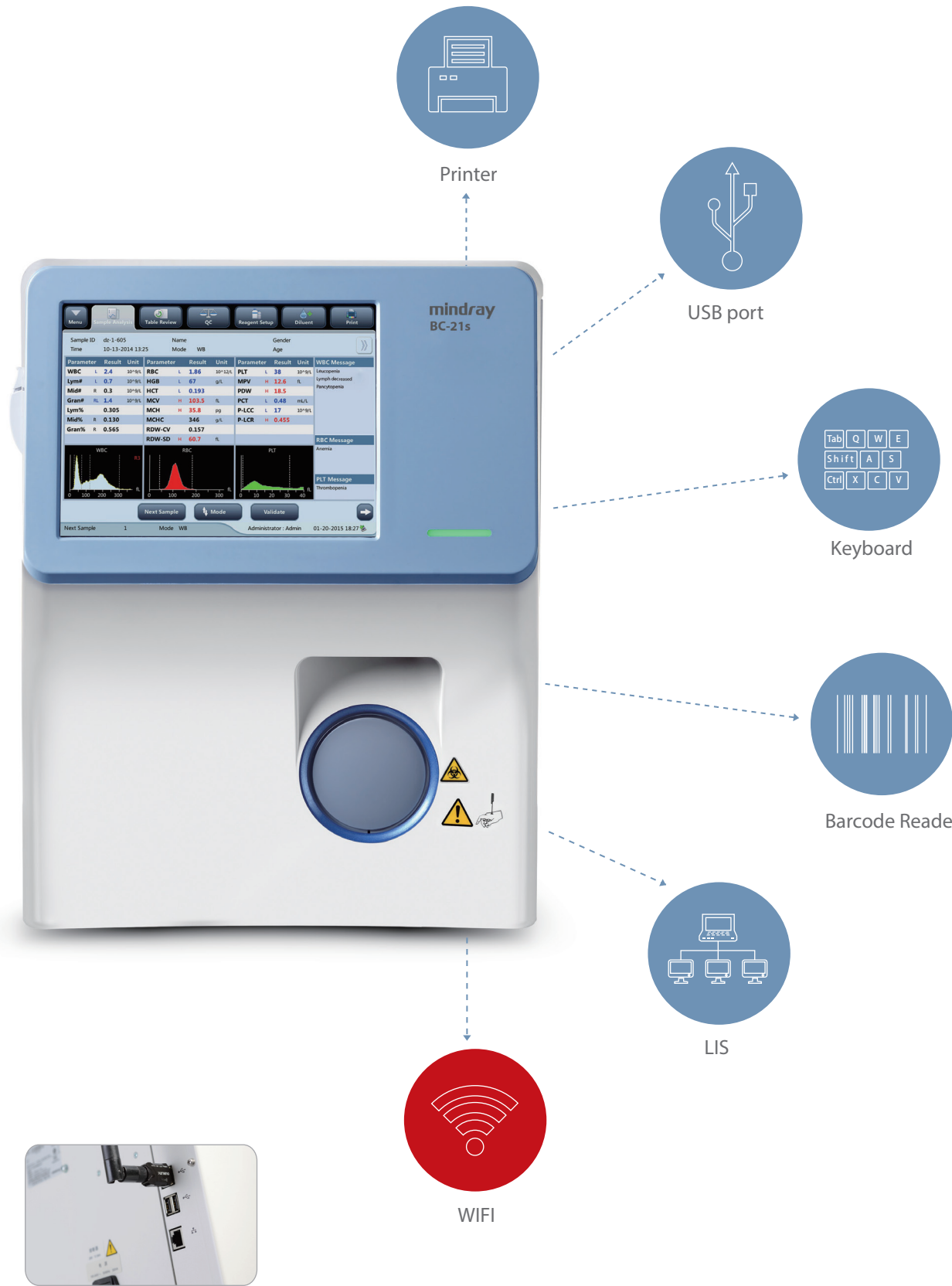
[www.mindray.com](http://www.mindray.com)

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Auto Hematology Analyzer

# Minimum Size, Maximum Capability



WiFi capability provides you an added option for data communication together with bi-directional LIS, USB port and LAN port, barcode reader, printer and keyboard.





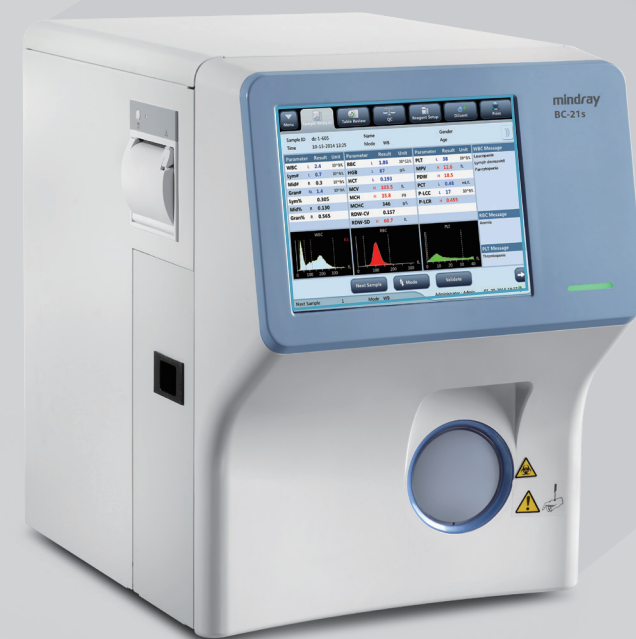
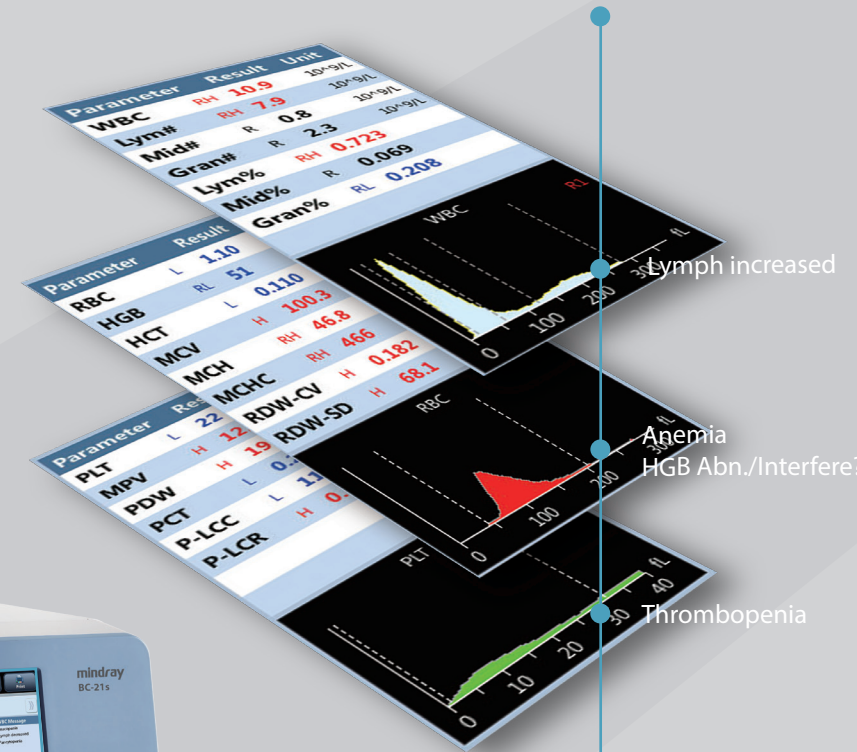
## BC-21s Auto Hematology Analyzer

**Sample 1** : BC-21s shows flag "Lymph increased" which means a high number of Lymphocytes and/or immature cells. Meanwhile R1 flag is also displayed. Two kinds of flag messages are both supported to ensure clinicians have better understanding of sample results.

**Sample 2** : Flag "Anemia" and "HGB Abn./Interfere?" are displayed. They mean the sample shows either signs of Anemia, Abnormal Hemoglobin or sample is interfered such as by high value of Leukocytes or Agglutinated Erythrocytes.

**Sample 3** : Flag "Thrombopenia" indicator is shown together with Platelets low flag.

Different flag information provided according to parameter results together with histograms.



## What a 3-part should be

At Mindray we pride ourselves in our dedication and experience in developing better solutions for small labs. Our new line of 3-part hematology analyzers is the culmination of that effort. Compact yet powerful, full featured yet affordable, the BC-21s is what a 3-part analyzer should be.



## Exclusive Feature

Detailed flag information never before seen on a 3-part analyzer. Provides information useful for diagnosis including WBC flag, RBC flag and PLT flag.

## Better Usability

Minimum size with the footprint similar to that of a 17 inch laptop, with space saving design that allows internal storage of lyse giving small labs more space. 8.4 inch TFT touch screen together with our powerful software enhances user operations and experience.

## Higher Efficiency

New technology that eliminates the need for cleanser and rinse, reducing the number of reagents needed while at the same time lowering overall reagent consumption. Flexible packaging of reagents, with normal and small sizes to better cater to the needs of different daily sample volumes.



## Enhanced Performance

Higher throughput at 60 tests per hour.

Micro sample volume at 9.0uL for whole blood mode with capillary whole blood samples supported, perfect for pediatric samples.