

BC-21s

Auto Hematology Analyzer

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Minimum Size, Maximum Capability

Technical Specifications

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

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

Performance

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

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
≤300VA
50Hz/60Hz

Dimension and Weight
Dimension: Depth(410 mm) x width(300 mm) x height(400 mm)
Weight: ≤20Kg

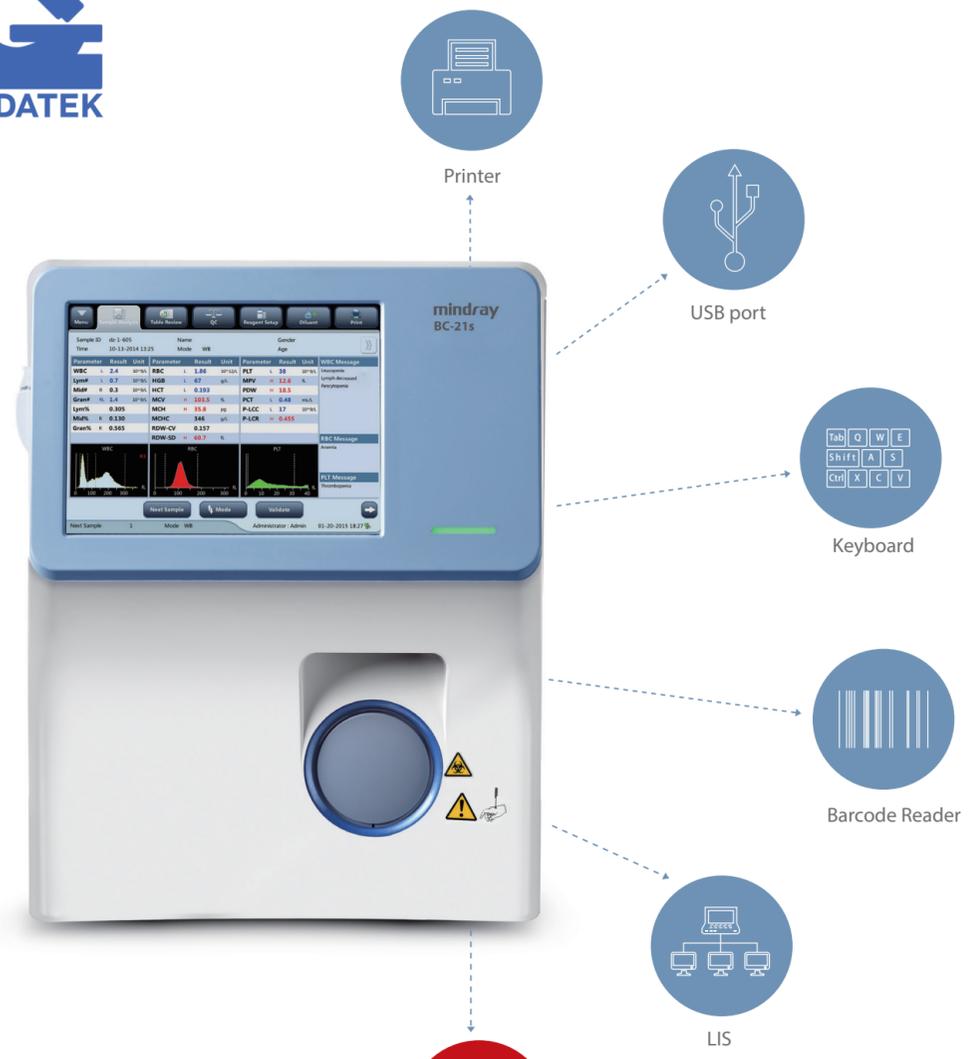
Parameters
21 parameters: WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, PLCR, P-LCC

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

Sample Volume
Prediluted mode 20μL
Whole blood mode 9 μL

Throughput
60 samples per hour

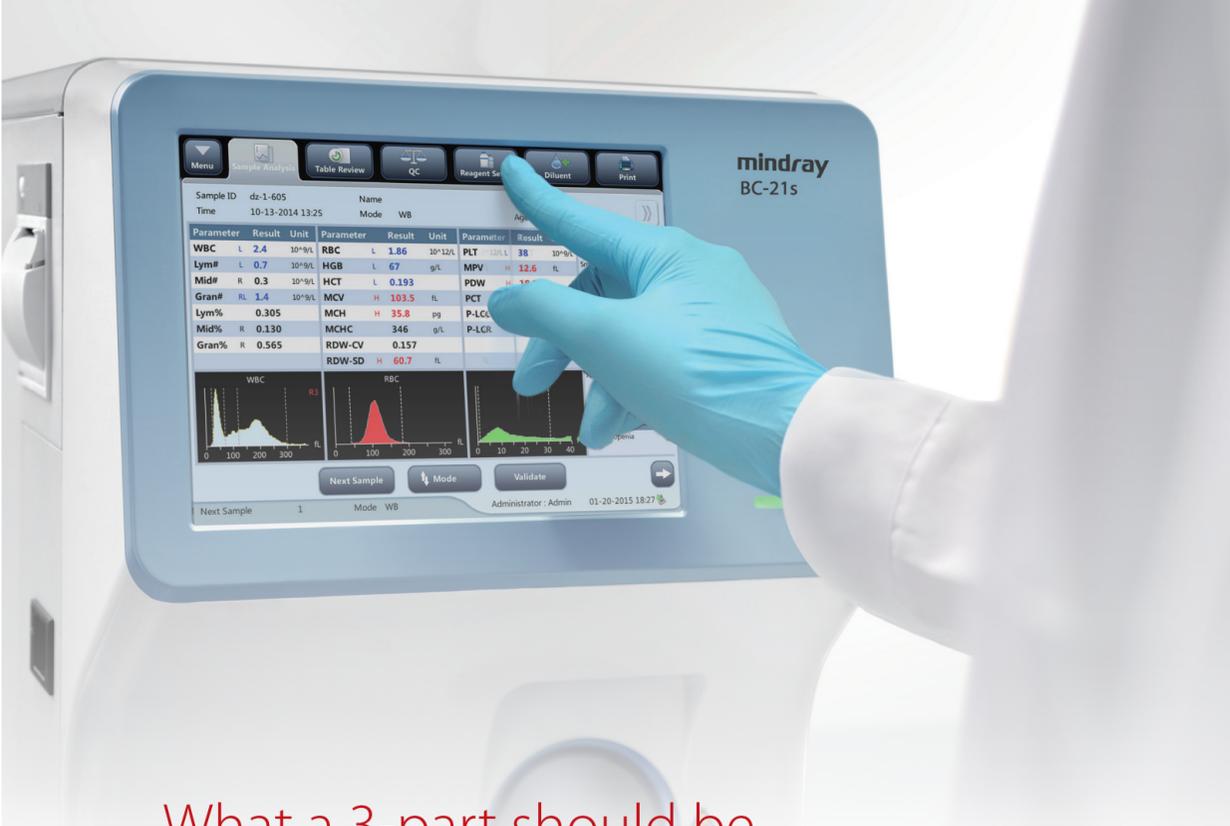
Display
8.4 inch TFT Touch Screen



Exclusive distributor



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.



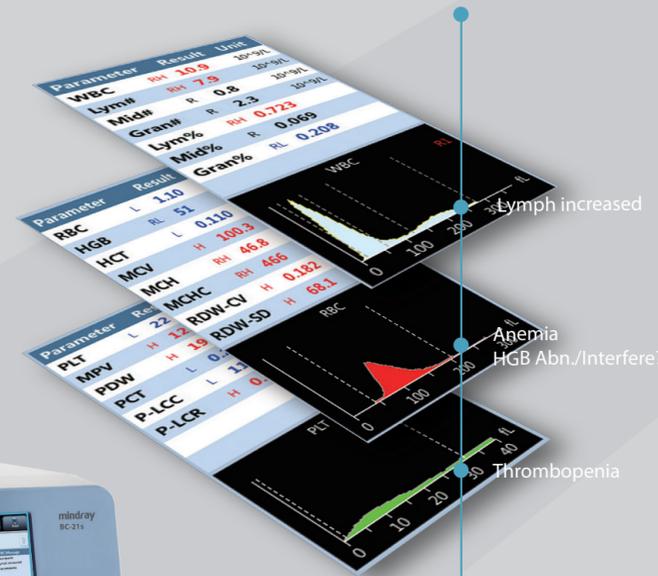
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Sample 1 : BC-21s shows flag "Lymph increased" which means a high number of Lymphocytes and/or immature cells. Meanwhile R1 flag is also displayed. Two kinds of flag messages are both supported to ensure clinicians have better understanding of sample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

Parameter	Result	Unit	Parameter	Result	Unit	Parameter	Result	Unit	RBC Message
WBC	L 2.4	10 ⁹ /L	RBC	L 1.86	10 ¹² /L	PLT	L 38	10 ⁹ /L	Leucopenia
Lym#	R 0.7	10 ⁹ /L	HGB	L 67	g/L	MPV	H 12.6	fL	Lymph decreased
Mid#	R 0.3	10 ⁹ /L	HCT	L 0.193		PDW	H 18.5	%	Plateypenia
Gran#	R 1.4	10 ⁹ /L	MCV	H 103.5	fL	PCT	L 0.48	%	
Lym%	R 0.305		MCH	H 35.8	pg	P-LCC	L 27	10 ⁹ /L	
Mid%	R 0.130		MCHC	346	g/L	P-LCR	H 0.453		
Gran%	R 0.565		RDW-CV	H 0.157					
			RDW-SD	H 60.7	fL				

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.