

# BC-20s

## 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, P-LCC, P-LCR, 3 histograms for WBC, RBC and PLT

#### Reagent

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

#### Sample Volume

Prediluted mode 20 $\mu$ L  
Whole blood mode 9  $\mu$ L

#### Throughput

40 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

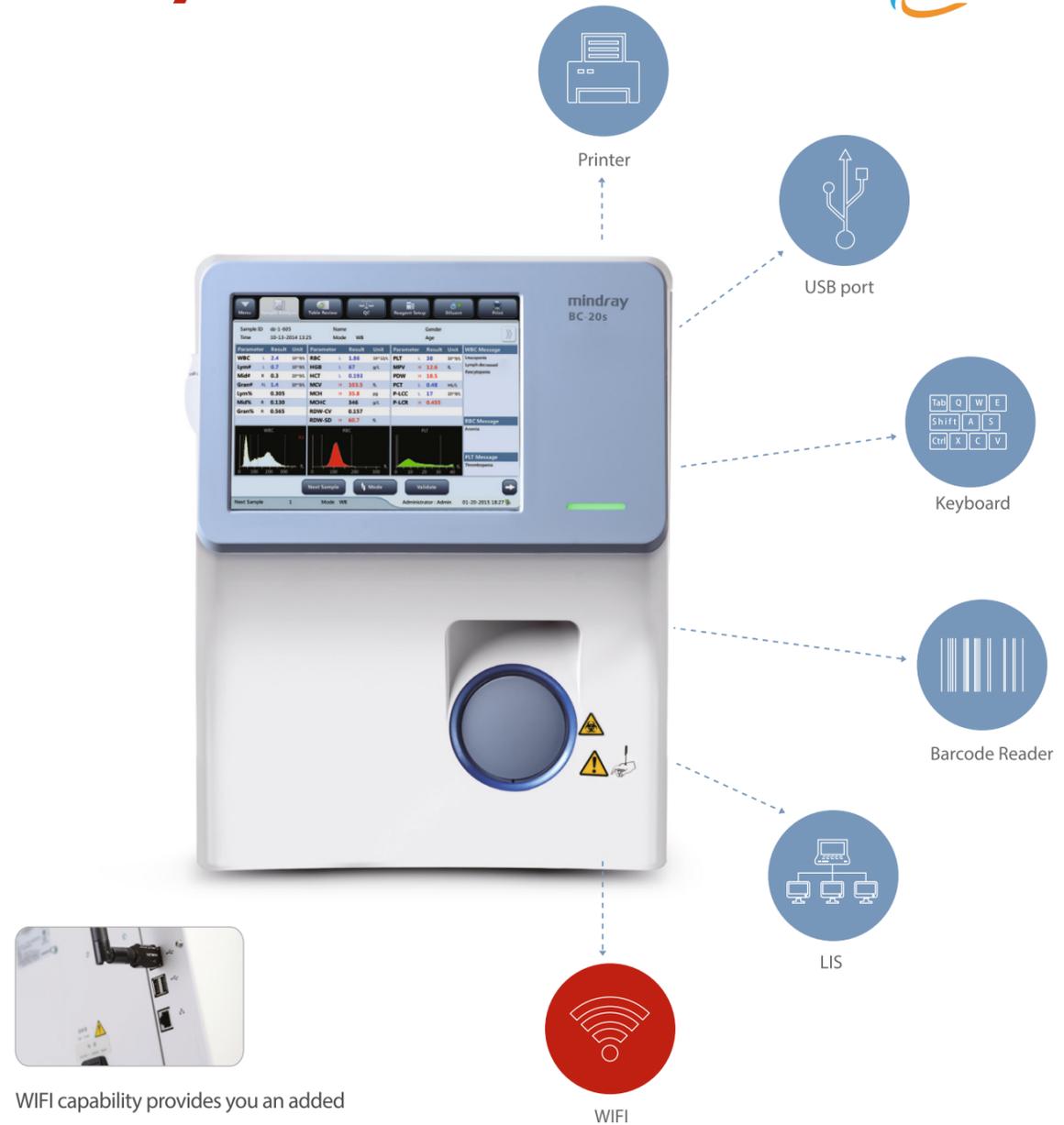
Dimension: Depth(410 mm) x width(300 mm) x height(400 mm)  
Weight:  $\leq 20Kg$



# BC-20s

## 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.

Parameter	Result	Unit	Parameter	Result	Unit	Parameter	Result	Unit	RBC Message
WBC	12.4	10 <sup>9</sup> /L	RBC	1.86	10 <sup>12</sup> /L	PLT	138	10 <sup>9</sup> /L	Leucopenia
Lym#	0.7	10 <sup>9</sup> /L	HGB	67	g/L	MPV	12.6	fL	Lymph decreased
Mid#	0.3	10 <sup>9</sup> /L	HCT	0.193	L	PDW	18.5	fL	Panycytopenia
Gran#	1.4	10 <sup>9</sup> /L	MCV	103.5	fL	PCT	0.48	mL/L	
Lym%	0.305		MCH	35.8	pg	P-LCC	17	10 <sup>9</sup> /L	
Mid%	0.130		MCHC	346	g/L	P-LCR	0.455		
Gran%	0.565		RDW-CV	0.157					
			RDW-SD	60.7	fL				

RBC Message: Anemia  
PLT Message: Thrombopenia

### 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.

## BC-20s Auto Hematology Analyzer

**Sample 1** : BC-20s 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 has 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.

Lymph increased

Anemia  
HGB Abn./Interfere?

Thrombopenia

