

MINDRAY

BC-2300 Hematology Analyzer



BC-2300

Hematology Analyzer



- Compact sized and cost effective
- 3-part differentiation of WBC, 19 parameters+ 3 histograms
- 2 counting mode: Whole blood and prediluted
- Throughput: 30 samples per hour
- Automatic clog removal and automatic recount function
- Up to 10,000 patient results (including histograms) can be stored
- Built in diluter and thermal recorder
- Color LCD display

| Parameter | Result | Ref. Range | Dept. | Mode |
|-----------|---------------------------|--------------|-------|----------|
| WBC | 10.7 x 10 ⁹ /L | 4.0 - 12.0 | NSU | WB - All |
| RBC | 4.1 x 10 ¹² /L | 4.0 - 5.5 | NSU | WB - All |
| Hgb | 12.9 g/dL | 12.0 - 16.0 | NSU | WB - All |
| Hct | 37.1 % | 37.0 - 47.0 | NSU | WB - All |
| MCV | 85.6 fL | 80.0 - 100.0 | NSU | WB - All |
| MCH | 31.7 % | 27.0 - 34.0 | NSU | WB - All |
| MCHC | 36.9 g/dL | 32.0 - 36.0 | NSU | WB - All |
| RDW | 13.7 % | 11.5 - 14.5 | NSU | WB - All |
| PLT | 219 x 10 ⁹ /L | 150 - 400 | NSU | WB - All |
| PCT | 5.07 % | 0.10 - 0.50 | NSU | WB - All |

Low Cost and Affordable

- Probably it is one of the most cost effective hematology analyzer in this range worldwide

Flexible and Easy To Use

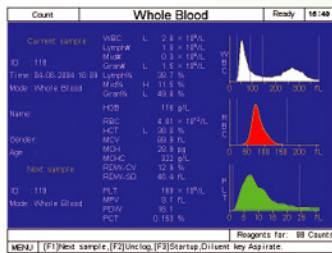
- Evolving from manual to automated era, enjoying the pleasure of troubles workflow

High Accuracy and Reliability

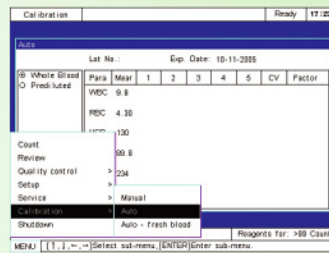
- Many state of arts technologies such as float discriminator are adopted to ensure top performance

Comprehensive Software Functions

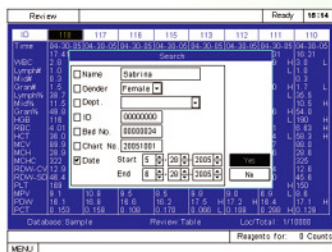
- A small analyzer with high end software only found in sophisticated instruments, providing greatest comfort to professionals



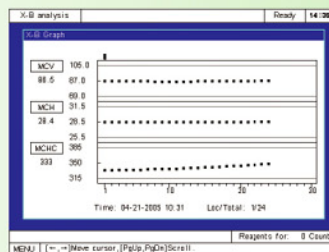
- Large Color LCD display, 19 parameters and 3 histograms (visualized and printed)



- Automatic calibration program



- Comprehensive patient data search function



- Comprehensive QC programs including L-J and X-B analysis; Up to 9 controls lots - 31 runs/ file

BC-2300

Hematology Analyzer

Technical Specifications

Parameters

WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT and Histogram for WBC, RBC, PLT

Principles

Electrical resistance for counting and SFT method for hemoglobin

Performance

| Parameter | Linearity Range | Precision(CV%) |
|--------------------|-----------------|-----------------|
| WBC($10^9/L$) | 0.0-99.9 | 3.0(7.0-15.0) |
| RBC($10^{12}/L$) | 0.20-9.99 | 3.0(3.50-6.00) |
| HGB (g/L) | 10-250 | 2.0(110-180) |
| MCV (fL) | | 1.0(80.0-110.0) |
| PLT($10^9/L$) | 10-999 | 6.0(150-300) |

Sample Volume

| | |
|-------------|------------|
| Prediluted | 20 μ l |
| Whole blood | 20 μ l |

Aperture Diameter

| | |
|----------|------------|
| WBC /RBC | 80 μ m |
|----------|------------|

Throughput

30 samples per hour

Display

Large color LCD display
Resolution: 640x480

Menu

Count, Review, Quality Control, Setup, Service, Calibration, Shutdown

Carryover

WBC, RBC, HGB, PLT < 2%

Input/Output

RS232x2, 1 parallel printer(optional), 1 keyboard interface

Printout

Thermal recorder, printer 50 mm wide paper, various printout formats
Optional external printer

Operating Environment

| | |
|-------------|-----------------------------------|
| Temperature | 15 $^{\circ}$ C ~ 30 $^{\circ}$ C |
| Humidity | 30% ~ 85% |

Power Requirement

100-240V~50/60Hz

Dimension

400(W)x 460(H)x 390(D)

Weight

17.9kg