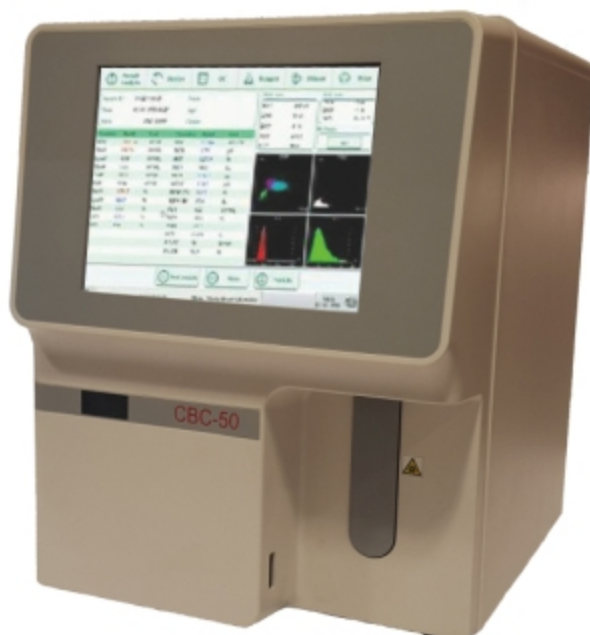


CBC-50

5 Part Differential

Auto Hematology Analyzer



All-in-one machine

10.4inch touch screen, no need extra PC, built-in barcode scanner, built-in thermal printer
Support capillary blood directly, more convenient for pediatric diagnosis in children hospital

Cost-effective

3 reagents (2 Lyse, 1 Diluent) only, less consumption
60 samples per hour, minimize your workload

Better human-machine interaction

Provide 29 parameters with 4 scattergrams and 2 histograms
User-friendly designed software, store 50,000 results,
Real-time monitoring reagent, voltage, temperature status

Intelligent software menu for hardware diagnosis

Advanced high voltage and flush to remove blockage automatically

Accurate results, easy maintenance

Long life semi-conductor laser to differentiate WBC into 5 parts
Ceramic syringe to assure precise reagent or sample aspiration
Imported famous liquid parts to control liquid flow, simplified liquid system to lessen break-down rate

Advanced Technology

Latest innovation

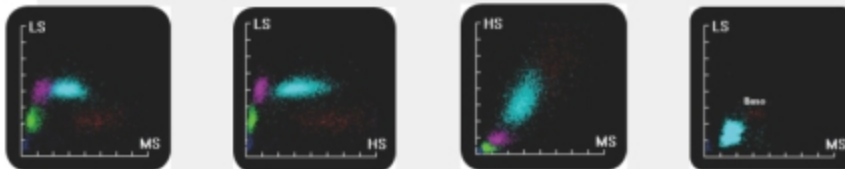
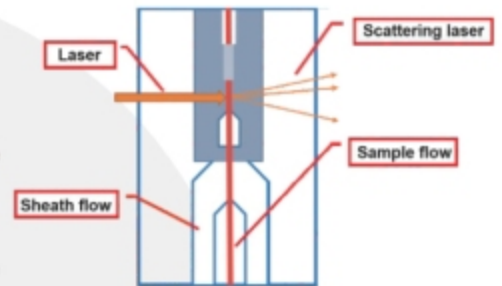
Tri-angle laser scattering and flow cytometry

Diff lyse is added to differentiate 4 kinds of WBC(Lym, Mon, Neu and Eos), LH lyse is used to differentiate Baso and count WBC amount.

Surrounded with sheath fluid(diluent), blood cells pass through the center of the flow cell one by one at high speed.

When passing through the flow cell, blood cells are exposed to a laser beam. The intensity of scatter light reflects the blood cell size and intracellular density.

The optical detector receives scatter light signals and converts them into electrical pulses. Pulse data is collected to generate a scattergram.



Proven technology

Impedance and colorimetric



The count principle of the instrument is based on the measurement of changes in electrical resistance produced by a blood cell passing through an aperture sensor. Passing through the magnification circuit, the voltage signal will be magnified, which will be derived into impulses, and then analytical histogram will be generated.



Adding lyse in the blood, the red blood cell will rapidly be broken down and release hemoglobin. Hemoglobin and lyse form a new mixture, which can absorb the wavelength of 530nm. Measure the absorbency. Through comparison of the absorbency between the pure diluent and the sample, the concentration of the sample hemoglobin is calculated.

Compact and Powerful



No extra PC required

10.4-inch touch screen, satisfy your demand, more convenient operation, also support mouse and keyboard



Built-in thermal printer

Support manual and auto print, also able to connect external printer, quickly print out the results and able to set print content



Built-in barcode scanner

Help to recognize sample, make patients information and results transmission more efficient



Innovative optical system

Using advanced flow cell, assure the accuracy of blood cell differentiation and counting



Reagent room

2 Lyse are placed inside the analyzer, available for those with limited space, space saving

Technical Specifications

Principle

Tri-angle laser scattering, flow cytometry for WBC differentiation and counting
Impedance for RBC and PLT counting
Cyanide-free method for HGB

Parameters

25 parameters: WBC, Lym%, Mon%, Neu%, Bas%, Eos%, Lym#, Mon#, Neu#, Eos#, Bas#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCR, P-LCC.
4 research parameters: LIC%, LIC#, ALY%, ALY#
2 histograms for WBC, RBC and PLT
4 scattergrams for WBC differential

Throughput

60 samples per hour

Calibration

Manual and Auto-calibration

Quality control

3 level QC,
LJ graph, XB

Sample volume

CBC+ Diff mode: 20 μ L
Prediluted mode: 20 μ L

Reagents

3 Reagent (2 Lyse + 1 Diluent)
1 PB cleanser for maintenance

Printout

Built-in thermal printer, support external printer

Sampling mode

Open mode, built-in barcode scanner

Maintenance

Auto-cleaning of sample probe and tubes

Temperature

10 $^{\circ}$ C-30 $^{\circ}$ C

Interface

4 USB port, 1 LAN port
HL7 protocol, support LIS

Blockage clear

High voltage, high pressure flush

Power

AC 100-240V, 50/60 \pm 1Hz

Dimension

L430mm \times W350mm \times H435mm

Display

10.4-inch color touch screen
Liquid Crystal Display (LCD)
Resolution: 800 \times 600

Storage

50,000 sample results with
scattergrams and histograms

Performance

Parameters	Precision (CV)
WBC	$\leq 2.0\%$ (4.0-15.0 $\times 10^9$)/L
RBC	$\leq 1.5\%$ (3.5-6.0 $\times 10^{12}$)/L
HGB	$\leq 1.5\%$ (110.0-180.0g)/L
MCV	$\leq 1.0\%$ (70.0-120.0) fL
PLT	$\leq 4.0\%$ (150.0-500.0 $\times 10^9$)/L

Parameters	Linearity range
WBC	(0-100.0 $\times 10^9$)/L
RBC	(0-8.00 $\times 10^{12}$)/L
HGB	(0-250)g/L
PLT	(0-1000 $\times 10^9$)/L

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