Specifications

Measurement principle	Electrical impedance for counting RBC, WBC & Platelets Colorimetric estimation of HGB at 540 nm
Parameters	WBC, LY#, MID#, GR#, LY%, MID%, GR%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCR, P-LCC
Throughput	60 samples/hour
Micro-aperture	WBC : 100 µm RBC / PLT : 68 µm
Sample type	Whole blood or pre-diluted sample
Sample volume	Whole blood (venous blood) : 10 µl Pre-diluent (capillary blood) : 20 µl
Chamber	Dual chamber : RBC / Platelets & WBC / HGB
Reagents	3 Reagent System : Diluent, Detergent & Lyse (non-cyanide)
Measurement range	See table below
Quality control	4 QC options : L-J, X-B, X-R & X QC Graphs plotted with 31 data points
Data memory	Upto 100,000 (with histogram)
Display	10.4 inch color LCD with 640 x 480 resolution
Printer	Built-in thermal printer
Interface	Support RS-232C, standard network port and USB; keyboard and mouse
Operating environment	Temperature : 15°C - 35°C Humidity : ≤ 85% RH
Electrical specification	Voltage : AC 100V/240V ± 23V Frequency : 50/60 Hz Power : 180W Fuse specification : 250V/3A
Dimensions / Weight	330 x 440 x 500 mm / 22 kgs

Item	Linearity Range	Acceptable Limits
WBC	0×10^9/L ~ 10.0×10^9/L	≤ ± 0.3×10^9/L
	10.1×10^9/L ~ 99.9×10^9/L	≤ ± 5%
RBC	0×10^{12}/L ~ 1.00×10^{12}/L	≤ ± 0.05×10^{12}/L
	1.01×10^{12}/L ~ 9.99×10^{12}/L	≤ ±5%
HGB	0 g/L ~ 70 g/L	≤ ± 2 g/L
	71 g/L ~ 300 g/L	≤ ± 2%
PLT	0×10^9/L ~ 100×10^9/L	≤ ± 10×10^9/L
	101×10^9/L ~ 999×10^9/L	≤ ±10%

Reagents — Pack Size

Diluent	20 Litre
Detergent	20 Litre
Lyse	500 ml
Controls	Low : 1 x 3 ml / Normal : 1 x 3 ml / High : 1 x 3 ml

*Accurex reserves the right to change specifications for continuous improvement.

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ACCULAB CBC360 neo

ACCUREX Since 1984

Truly Automated Hematology Analyzer

Automated for Walk-away Operation

Features

- 3-part differentiation of WBC
- Automated for – self-checking, background test, calibration, sampling, dilution, mixing, printing, dormancy, alarms, cleaning and maintenance
- High processing speed : 60 samples/hour
- Multi-parameter estimation : 21 parameters categorized according to corpuscle type for easy reporting
- Direct command keys for *Mode, Prime, Flush, Drain & Record / Print* for faster operation
- *Run / Standby* indicator lights denote the analyzer status i.e. test is being run or analyser is ready to test
- *Whole blood/ Pre-diluent* indicator lights denote the sample type in use i.e. whole blood/ pre-diluent
- Dual sample mode with low sample volume: Whole blood (venous) mode : 10 µl; pre-diluent (capillary) mode : 20 µl
- Audio alarm indication for abnormal findings or system errors
- 4 QC methods : L-J, X-B, X-R & X QC
- Comprehensive QC graphs with 31 data points for each parameter
- Internal & external probe cleaning facility
- Dormancy mode available to reduce power consumption
- Memory : 100,000 (with histogram)

Red Blood Cell

1. RBC count
2. Hb concentration
3. Hematocrit
4. Mean corpuscular volume
5. Mean corpuscular hemoglobin
6. Mean corpuscular hemoglobin concentration
7. RBC distribution width CV
8. RBC distribution width SD

White Blood Cell

1. WBC count
2. Lymphocyte percent
3. MID percent
4. Granulocyte percent
5. Lymphocyte count
6. MID count
7. Granulocyte count

Platelet

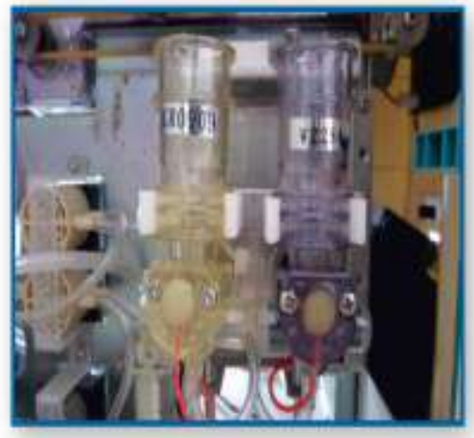
1. Platelet count
2. Mean platelet volume
3. Platelet distribution width
4. Plateletcrit
5. Large platelet ratio
6. Large platelet count

Automation for Walk-away Operation

- Auto Self-check : Automatic aspiration of reagents & rinsing of tubings on startup
- Auto Blank : Background test is run automatically on startup
- Auto Print : Automatic printing of report with / without histogram
- Auto Sleep : Dormancy status is entered after a set period of non-operation
- Auto Alarms : Audio / visual alarms in case of system errors & abnormal results
- Auto Clean : Automatic rinsing options available to maintain the system

Dual Chamber

- Measurement of RBC / platelets & WBC / HGB in different chambers ensure accurate counting in a short time
- The micro-aperture sizes of both the chambers are well designed to avoid error due to cell misclassification

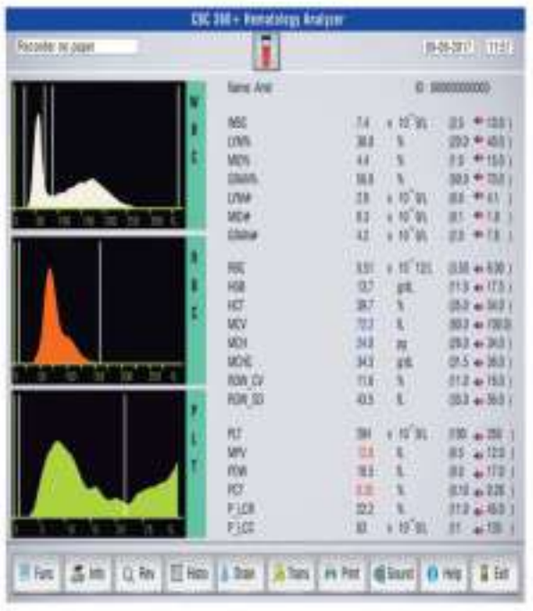


H.V. Cautery

- High voltage cautery function is useful in disintegrating obstinate protein or serum clog in the tubing

Histogram Alarm

- WBC Histogram : R1, R2, R3, R4 & RM indications on histogram show specific abnormalities in the histogram & the probable causes
- Platelet Histogram : PM indication is given when the boundary between PLT & RBC is ill-defined thus avoiding misclassification



Single Screen Display

- Large 10.4 inch single screen color display of all 21 parameters and 3 histograms
- Sequential arrangement of WBC, RBC & PLT parameters for convenient reporting
- Easy to understand & icon-based arrangement of menu for fast and convenient testing