

Kivo Prima 80

3-Part Differential Hematology Analyzer



Salient Features



Throughput
80 Samples/test
per hour.



10.4 inch
display with
touch panel.



Built in thermal
printer to save
space

India's first CBC with highest
throughput 80 Tests/ Hour



Large storage data
upto 500,000
samples.



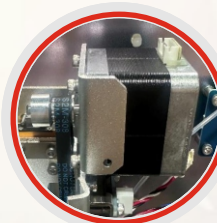
9µl Whole blood
20µl Capillary blood
through pre dilution
20µl Prediluted
whole blood



Equipped with one key
error removal technology
which can quickly eliminate
faults and ensure efficient
use



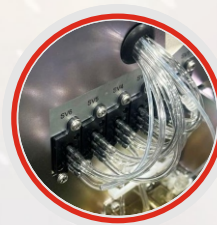
Gemstone aperture
Precise grinding with ruby, lifetime
maintenance free



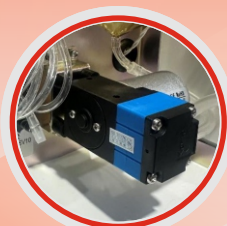
Electrical machinery
World-class stepper motors,
Smooth running, low noise,
maintenance-free



Ceramic syringe
Long life and high precision



Liquid pipeline system
World-class pipeline, low residue,
reduce maintenance cost of liquid
pipeline



Fluid pump
Low noise, corrosion preventive,
brushless-motor-driven
diaphragm pump



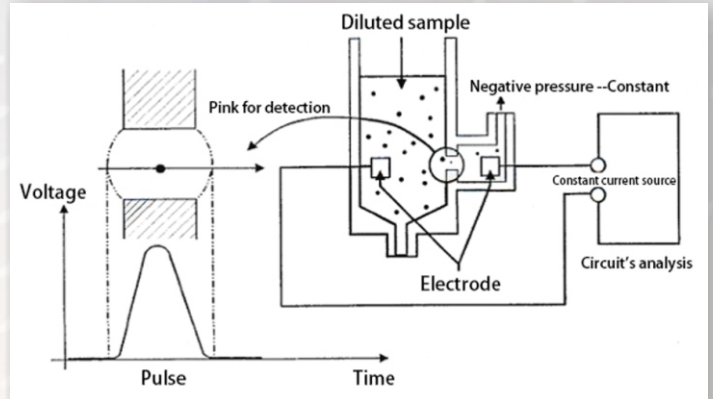
The most powerful processor
4-core, 1.5 Ghz is used for the
smoother experience of 3-diff
hematology analyzer when
running in high speed

Working principle of auto hematology analyzer

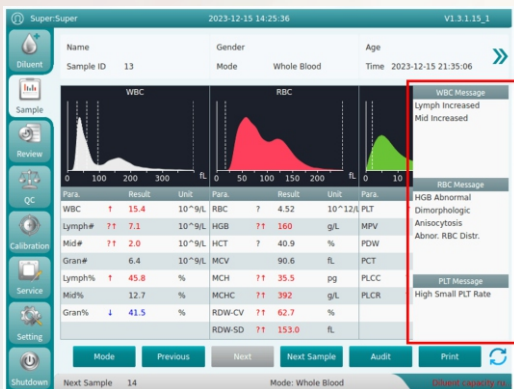
Test Principles:

Detection Principle for HGB
Colorimetry for hemoglobin test.

Electrical Impedance Method for RBC/PLT
This analysis method use electrical impedance method to count red blood cells/platelets in the RBC detection unit.



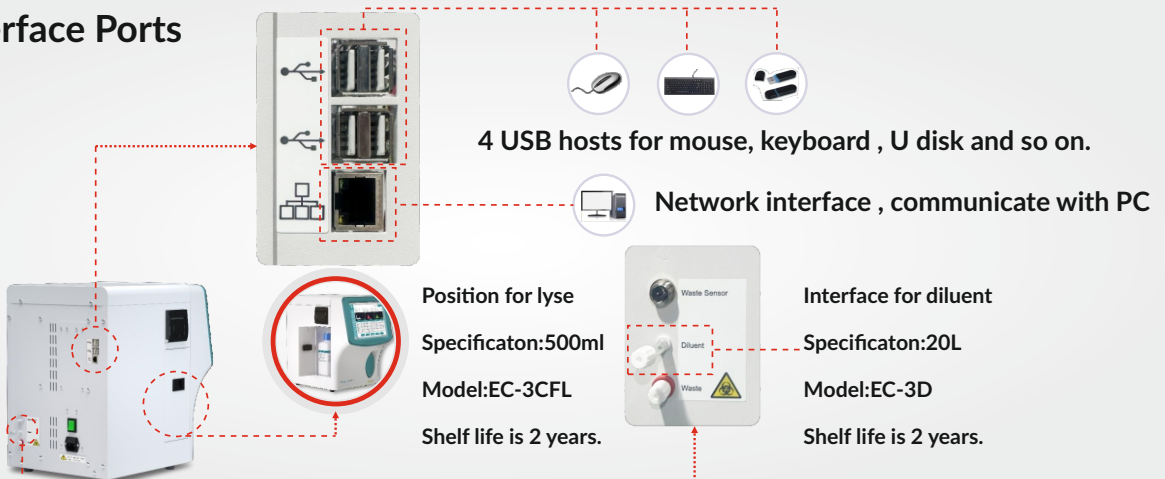
Features of auto hematology analyzer



Abnormal histogram words flag
When the result is abnormal, alarm prompts will pop up. This alarm information can provide more tips for clinician.

Setting function for flag and Suspicious alarms
Powerful and flexible capability of setting flag and suspicious alarms.

Various Interface Ports



Excellent Performance Parameters

Supplier	Kivo Prima 80	Brand 1	Brand 2	Brand 3
Model	Kivo Prima 80	xxxx	xxxx	xxxx
Repetitiveness	WBC : 2.0%	WBC : 2.0%	WBC : 3.5%	WBC : 2.0%
	RBC : 1.5%	RBC : 1.5%	RBC : 2%	RBC : 1.5%
	HGB : 1.5%	HGB : 1.5%	HGB : 1.5%	HGB : 1.5%
	PLT : 4.0%	PLT : 4.0%	PLT : 6.0%	PLT : 4.0%
Linearity	WBC : 0-300×10 ⁹ /L	WBC : 0-100×10 ⁹ /L	WBC : 0-99.9×10 ⁹ /L	WBC : 0-99.9×10 ⁹ /L
	RBC : 0-8×10 ¹² /L	RBC : 0-8×10 ¹² /L	RBC : 0-7×10 ¹² /L	RBC : 0-9.99×10 ¹² /L
	HGB : 0-280g/L	HGB : 0-280g/L	HGB : 0-250g/L	HGB : 0-300g/L
	PLT : 0-4000×10 ⁹ /L	PLT : 0-1000×10 ⁹ /L	PLT : 0-999×10 ⁹ /L	PLT : 0-999×10 ⁹ /L

Parameters of auto hematology analyzer

Technical Parameters	
Detection Channel	Double-Channel for counting
Counting Modes	Whole blood mode, pre-diluted Counting modes
Detection Principle	Impedance method (WBC, RBC, PLT) and cyanide free colorimetric method (HGB)
Detection Terms	The detection items include maximum 21 parameters (WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, HGB, P-LCC, P-LCR, 3 histograms, alarm for abnormal erythrocytes, leukocyte and platelet)
Report Print	Built-in thermal printer; Support external more than 5 types USB HP printers(optional); Support different language when leaving the factory
Storage	500000 sample results, including histogram and patient information
Operating environment	temperature:10°C~35 °C, Relative humidity:20%~85%
Power supply	100~240VAC, 50/60 Hz, 150VA
Dimension	420mm (L) x 295mm (W) x 430mm(H)

Kivo Prima 80

3-Part Differential Hematology Analyzer



Features	Kivo Prima 80	Other brands
The highest speed for 3-diff hematology analyzer in IVD industry: 80 samples/hour	✓	✗
The high reliability of accessory (Gemstone hole, Electrical machinery, Liquid pipeline system etc.,)	✓	✗ (Only partially supported)
The most powerful processor for 3-diff hematology analyzer, with 4-core, 1.5 GHz, bring smoother experience.	✓	✗
Ultra-large capacity for samples, support more storage results	✓	✗
Support pre-designed colorful software Style	✓	✗
Support customize unique instrument appearance	✓	✗
10.4" color LCD display screen	✓	✗ (Only partially supported)

How the 4-core, 1.5 GHz processor enhances hematology analyzer efficiency:

- **Faster Multitasking:** Enables simultaneous handling of analysis, UI, data communication, and background tasks, improving responsiveness.
- **Quicker Sample Processing:** Executes complex counting and analysis algorithms rapidly, leading to faster results and higher throughput.
- **Efficient Data Management:** Speeds up data storage, retrieval, and complex calculations for each sample.
- **Supports Advanced Features:** Allows smooth operation of sophisticated software, automated flagging, and data analysis tools.
- **Improved User Experience:** Ensures fluid software performance, quick loading times, and overall smoother interaction for technicians.
- **Future-Proofing:** Provides processing headroom for future software updates and potentially more demanding analyses.

