

Technical Specifications



Parameters and Histograms

- 21 parameters and 3 histograms:
WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, MCV, MCH, MCHC, RDW-CV, RDW-SD, HCT, PLT, MPV, PDW, PCT, P-LCR, P-LCC.
- WBC Histogram, RBC Histogram, PLT Histogram

Sample Mode and Aspiration Volume

- Whole Blood Mode - 14 µl
- Pre diluted mode - 20 µl

Printout

- Built in thermal printer module, provides full report with Histograms (80mm)
- Optional printer interface available through USB

Display

- 10.4 Inch TFT LCD display with touch screen

QC and Calibration

- Quality Control
Include 9 QC files, L-J Graph, Automatically draw quality control chart and provide the average, SD, CV
- Calibration
Manual and Automatic Modes both available

Performance

- Wider linearity range & excellent repeatability

Linearity			Precision	
	Range Low	Range High	CV%	Units
WBC	0	100	≤ 2.0%	10 ⁹ / L
RBC	0	7	≤ 1.5%	10 ¹² / L
MCV	0	250	≤ 0.5%	fL
HGB	0	25	≤ 1.5%	g / dL
PLT	0	3000	≤ 5.0%	10 ⁹ / L

Physical Specifications

- Power
220V, 50Hz input power: ≤ 150VA
- Operating Environment
Environment temperature: 10°C ~ 30°C
Relative humidity: ≤ 70%
Atmospheric pressure: 70.0kPa ~ 106.0kPa

Principle

- Electrical Impedance method for cell counting.
- Photometric Cyanide-free Hemoglobin estimation.

Aperture Diameter

- 70 µm (RBC/PLT)
- 100 µm (WBC)

Throughput

- 60 Samples/Hr

Data Storage

- 50000 Patient Reports with Histograms
- Data backup through USB mass storage device
- Host computer interface USB & Port

Communication/ Output

- LAN and RS232 connection
- 4 USB Ports (Printer, Barcode, Mouse, Keyboard)

CelQuant Edge™

3 Part Hematology Analyzer



Diagnostics



Experience the next level of Performance with our
Cutting Edge Technology



Meril Diagnostics Pvt. Ltd.
D1- D3, Second Floor, Meril Park, Survey No. 135/2/B & 174/2, Muktanand Marg, Chala, Vapi - 396191, India
601, Midas, Sahar Plaza Complex, J.B Nagar, Andheri East, Mumbai - 400059
Tel: +91 260 2408000 | Fax: +91 260 2408025 | Customer Care: 1-800-266-3745 (Toll Free) | Email: diagnostics@merillife.com

#TESTING ZAROORI HAI

► USER FRIENDLY INTERFACE

with Detailed Information Accompanied by Histogram



► WBC Histogram Alarm

When WBC histogram is abnormal, alarming words **"R1, R2, R3, R4, Rm"** etc. are displayed.

R1: Left area of the lymphocyte peak is abnormal, there may be platelet clot, giant platelet, nucleated red blood cell, undissolved red cell, protein & lipid particle or electric noise interference.

R2: The area between the lymphocyte peak and the middle cell is abnormal, there may be atypical lymphocyte, plasmacyte, atypical lymphocyte, myeloblast or eosinophilia or basophilia.

R3: The area between the middle cell area and the neutrophil granulocyte peak may be abnormal, there may be unmaturing neutrophil granulocyte, abnormal cell subgroup or eosinophilia.

R4: The right area of the neutrophil granulocyte peak is abnormal, indicating that the absolute neutrophil count increases.

Rm: Means there are two or more R alarms.

► PLT Histogram Alarm

When PLT histogram is abnormal, alarming words **"Pm"** will be displayed.

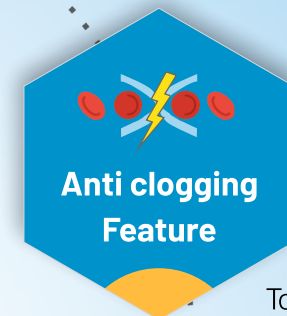
Pm: the boundary between the platelet and the red cell area is vague, there may be giant platelet, platelet clot, microcyte, cell debris and fibrous protein.

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BENEFITS OF CelQuant Edge



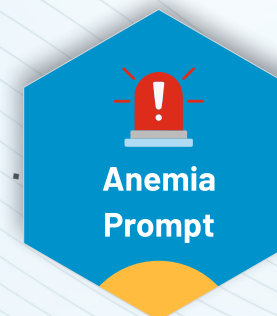
No reagent is consumed for waking up from sleep mode, as it does in other hematology instruments.



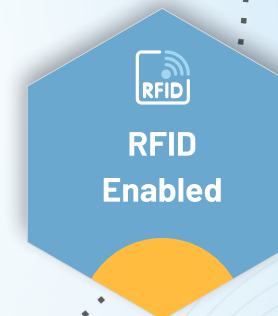
To unclog the system for any clot or impurity stuck in aperture. (Prevent build-up with anti-clog technology)



Saves extra time and cost of maintenance



This feature alerts user for anemic samples



Real Time reagent and waste management system

► P-LCC and P-LCR

P-LCC and P-LCR (Platelet Large Cell Count/Ratio) are medical indicators that help assess inflammation and immune response in the body, often used as a prognostic marker in various diseases. Early Diagnosis leads to timely treatment

► Full Connectivity

