

SPECIFICATIONS	CelQuant 5 Ultima WITHOUT AUTOLOADER	CelQuant 5 Ultima WITH AUTOLOADER
Principle	Tri-angle LASER scattering and flow cytometry for WBC differentiation and counting; impedance for RBC and PLT counting; cyanide-free method for HGB measurement; Direct Basophil Channel	
39 Parameters	28 Parameters- WBC,BAS#,BAS%,NEU#,NEU%,EOS#,EOS%,LYM#,LYM%,MON#,MON%, RBC, HGB, MCV, MCH, MCHC, RDW-CV, RDW-SD, HCT, PLT, MPV, MPV, PDW-CV, PDW-SD, PCT, P-LCR, P-LCC, NLR, PLR 11 Special Parameters- LIC%, LIC#, ALY%, ALY#, NRBC%, NRBC#, PLT CLUMPS%, PLT CLUMPS#, Mentzer Index, RDWI, MLR 2 histograms for RBC and PLT 4 scattergrams for WBC differential	
Throughput	60 samples/hour	80 samples/hour
Display	10.4 -inch color touch screen	10.4 -inch color touch screen
Storage	60,000 sample results with scattergrams and histograms	60,000 sample results with scattergrams and histograms
Reagent	3 Reagent (2 Lyse + 1 Diluent) 1 PB cleanser for maintenance	3 Reagent (2 Lyse + 1 Diluent) 1 PB cleanser for maintenance
Sample Volume	CBC + Diff mode: 20 μ l Prediluted mode: 20 μ l	CBC + Diff mode: 15 μ l Prediluted mode: 20 μ l
Sampling Mode	Whole blood, Capillary whole blood , Prediluted blood, Low – WBC mode, Low - PLT mode, Low WBC/PLT mode	Whole blood, Capillary whole blood , Prediluted blood, Low – WBC mode, Low - PLT mode, Low WBC/PLT mode
Calibration	Manual, auto and fresh blood calibration	Manual, auto and fresh blood calibration
Quality Control	3 level QC, L-J graph, X-B	3 level QC, L-J graph, X-B
Printout	Built-in thermal printer, Support external printer	Support external printer
Maintenance	Auto-cleaning of sample probe and tubes	Auto-cleaning of sample probe and tubes
Temperature	10°C - 30°C	10°C - 30°C
Interface	4 USB ports, 1 LAN port, HL7 protocol, support LIS	4 USB ports, 1 LAN port, HL7 protocol, support LIS
Blockage Clear	High voltage, high pressure flush	High voltage, high pressure flush
Power	AC 100-240V, 50/60 \pm 1Hz	AC 100-240V, 50/60 \pm 1Hz
Dimension	L430mm x W350mm x H435mm	L685mm x W580mm x H560mm
Weight	28kg	55kg

41 Meril Subsidiaries

12 Academies Globally



10000+
EMPLOYEES

250+
PRODUCTS

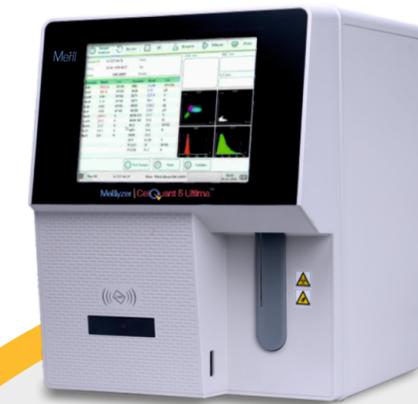
158+
COUNTRIES

Meril Diagnostics Pvt.Ltd.

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Merilyzer CelQuant 5 Ultima™



5 Part Hematology Analyzer Without Autoloader



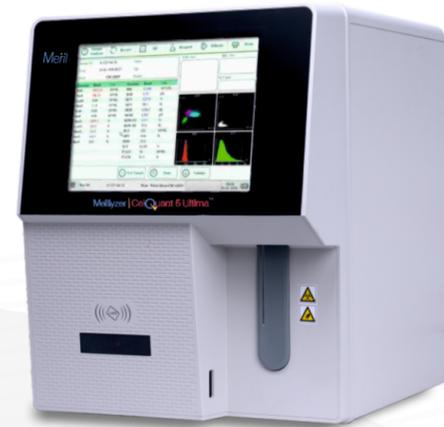
5 Part Hematology Analyzer With Autoloader

**Accurate results,
Even at Low counts**

Efficient and Robust in a Compact Design

Reliable Device,
Accurate
Measurement

Large 10.4 Inch
coloured display



Compact Design

High-Performance
Data Management

Intelligent
Maintenance

Onboard Barcode
Reader (Optional)

Performance

Parameters	Precision (CV)
WBC	≤ 2.0% (4.0- 15.0x10 ⁹)/L
RBC	≤ 1.5% (3.5- 6.0x10 ¹²)/L
HGB	≤ 1.5% (110.0- 180.0g)/L
MCV	≤ 1.0% (70.0- 120.0) fL
PLT	≤ 4.0% (150.0- 500.0x10 ⁹)/L

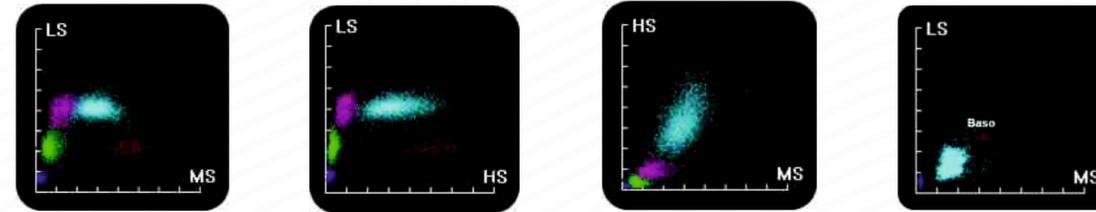
Parameters	Linearity range
WBC	(0-500.0)x10 ⁹ /L
RBC	(0-8.00x10 ¹²)/L
HGB	(0-250)g/L
PLT	(0-5000)x10 ⁹ /L

Advance Technology

Tri-angle LASER Scattering and Flow cytometry

The triangular LASER scattering technique enhances the accuracy of cell counting. As blood cells travel through the flow chamber, they are exposed to a LASER beam. The intensity of the scattered light reflects the size of the blood cells and their intracellular density. The optical sensor detects the scattered light signals and converts them into electrical pulses. The resulting pulse data is processed to create a scatter plot.

Diff. Lyse / LD Lyse is applied to distinguish four specific types of WBCs: lymphocytes, monocytes, neutrophils, and eosinophils. On the other hand, LH Lyse is used to separate basophils and to determine the total WBC count. Additionally, a designated channel is available for basophil identification.



Robust Hardware Ensures Stability & Accuracy

Long-lasting maintenance free Semi-conductor LASER for accurate 5-part WBC differentiation
Ceramic syringe guarantees precise aspiration of both reagents and samples
High-quality liquid components integrated with a streamlined liquid system for enhanced performance

Value For Money - Dual Lyse System & Space Efficient

Operates with only 2 Lyse & 1 Diluent, ensuring economical usage
Internal Storage of reagents for improved space efficiency

Accurate at Low Counts

Extended measurement window ensures precise results in low PLT & WBC samples — no reruns, less waste.

Auto Platelet Clump Detection

Detects and reports platelet clumps automatically in absolute values — no manual slide prep needed.

Advanced Cell Analysis

Analyzes nucleus complexity and granularity — delivering greater accuracy across all parameters.

Advanced Data Management

Flag alerts assist providing more accurate diagnostic insights 60,000 results can be stored, ensuring extensive data retention

Think Platelet Think Ultima

Reliable Device,
Accurate
Measurement

Easy to use
Interface

Auto sample
mixer



Large 10.4 Inch
coloured display

Sample Priority
for Emergencies

Auto Sample
Loading Track

Performance

Parameters	Precision (CV)
WBC	≤ 2.0% (4.0- 15.0) x10 ⁹ /L
RBC	≤ 2.0% (3.5- 6.0)x10 ¹² /L
HGB	≤ 1.5% (110.0- 180.0)g/L
MCV	≤ 1.0% (70.0- 120.0) fL
PLT	≤ 5.0% (100.0- 149.0)x10 ⁹ /L ≤ 4.0% (150.0- 500.0)x10 ⁹ /L

Parameters	Linearity range
WBC	(0-500.0)x10 ⁹ /L
RBC	(0-8.00x10 ¹²)/L
HGB	(0-250)g/L
PLT	(0-5000)x10 ⁹ /L