

3 Part Hematology Analyzer

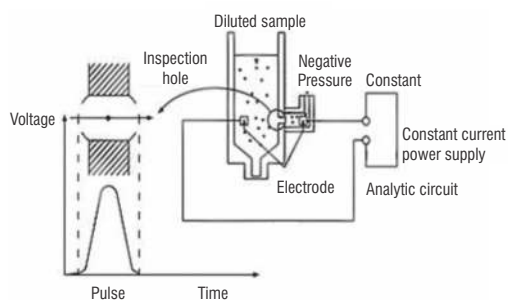
- Impedance platelet aggregometry and colorimetric method
- Throughput: 60 samples/hour
- Whole blood, pre-diluted blood
- 21 report parameters and 3 histograms
- Environmental friendly cyanide-free reagents
- Up to 14 alarm information of para-morphia cell
- Large colour LED display with high resolution
- Up to 10,000 sample storage capacity
- Optional Bar Code Reader



Innovative Features

CelQuant 3 Prime is a high end three-part differential hematology analyzer offering accurate and reliable results through classical test method.

Principle : CelQuant 3 Prime adopts the impedance platelet aggregometry to inspect the RBC, WBC, PLT and volume distribution. Besides, it adopts the colorimetric method to measure the HGB and to calculate the other parameter results.



Sampling : CelQuant 3 Prime is equipped with precise sampling system and can be programmed for venous and peripheral blood.

Sample Volume;

- Whole blood (venous blood) - 13 μ L
- Pre-dilution (peripheral blood) - 20 μ L

Dilution Ratio;

- Whole blood:

WBC/HGB	-	1:504
RBC/PLT	-	1:21732
- Pre-diluted blood:

WBC/HGB	-	1:504
RBC/PLT	-	1:18389

Efficient and Reliable : CelQuant 3 Prime efficient ZAP and flush method removes clog completely. Analyzer automatically rinses all parts where samples flow through in every count period and ensure no sample residues in the liquid pipelines

Ease of Operation : CelQuant 3 Prime well organized software interface eases your operation and gives you easy control of sample results, patient records and report customizations.

Analyzer is provided with touch screen LCD that displays all parameters and histograms with automatic sample loading, mixing and testing.

Quality Control : QC method is divided into L-J and X bar. There are two calculation methods for QC deviation limit: Absolute value and percentage. With L-J/Xbar QC, operator can conduct QC on 20 parameters. Analyzer provides 12 QC documents in total in order to save QC parameters and results.

Every QC file can automatically save a maximum of 30 groups of QC results.

Built in Printer : CelQuant 3 Prime is integrated with thermal printer to print QC graph and QC statistical parameters.

Operating Interface : CelQuant 3 Prime incorporates both USB and RS232 interface to connect the instrument with the computer.

A user friendly interface assists the operator and simplifies the daily routine work

ACCURACY : WHOLE BLOOD

Item	Standard
WBC	± 3.0%
RBC	± 2.0%
HGB	± 2.5%
MCV	± 3.0%
PLT	± 5.0%

ACCURACY : PERIPHERAL BLOOD

Item	Standard
WBC	± 5.0%
RBC	± 3.0%
HGB	± 2.5%
MCV	± 3.0%
PLT	± 8.0%

LINEARITY RANGE

Item	Linearity Range	Standard
WBC	(1.0 - 10.0) × 10 ⁹ /L (10.1 - 99.9) × 10 ⁹ /L	Not over ±0.3 × 10 ⁹ /L Not over ±3%
RBC	(0.30 - 1.00) × 10 ¹² /L (1.01 - 7.00) × 10 ¹² /L	Not over ±0.03 × 10 ¹² /L Not over ±3%
HGB	(20 - 70) g/L (71 - 240) g/L	Not over ±2g/L Not over ±2%
PLT	(20 - 100) × 10 ⁹ /L (101 - 999) × 10 ⁹ /L	Not over ±10 × 10 ⁹ /L Not over ±5%

Technical Specifications

Principle	Impedance platelet aggregometry to inspect the RBC, WBC, PLT and volume distribution an colorimetric method to measure the HGB
Sample volume	Whole blood (venous blood) - 13 µL Pre-dilution (peripheral blood)- 20 µL
Test speed	60 samples / hour
Parameters	WBC, NEUT#, LYM#, MXD, NEUT%, LYM%, MXD%, RBC, HGB, MCV, MCH, MCHC, RDW-CV, RDW-SD, HCT, PLT, MPV, PDW, PCT, P-LCR, P-LCC, WBC Histogram, RBC Histogram, PLT Histogram
Storage volume	10,000 testing records
L-J/ X-bar QC	12 documents, and each 30 records
X-BQC	1 document, and 150 records
Display	Large colour touch screen
External output	RS232 serial port
Bar code input	Bar-code scanner(standard configuration)
Power supply	100 - 240V ~ 50 / 60Hz
Fuse specification	250V 4A
Power consumption	70 VA
Dimension	430 mm(L) × 395 mm (W) × 432 mm (H)
Weight	Approx 25 kg

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PRODUCT	PRODUCT DESCRIPTION	PACK SIZES
Blood Diluent	Sample diluent	20 L
Cell Lyse	WBC counting and Hb estimation	500 ML
Cleanzer	Chamber cleaner after each sample	500 ML

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