

# Merilyzer | ClotQuant Series

Coagulation Analyzers

Meril

Diagnostics

**"Max Accuracy,  
Min Reagents:**

*Revolutionizing Coagulation Analysis!"*



Merilyzer | ClotQuant 2™

Merilyzer | ClotQuant 4™

## Innovative Features

- Advanced scattered light principle
- Test performed : PT, APTT, FIB, TT and single factor tests
- Sample Positions : 16 positions (ClotQuant 2)  
24 positions (ClotQuant 4)
- Reagent Positions : 4 positions (ClotQuant 2)  
6 positions (ClotQuant 4)
- Reagent Consumption < 50 µL
- Test Wavelength : 470 nm
- Storage : 5000 test results
- Data Recall : By date and Id
- Built-in thermal printer
- Electronically - linked pipette
- QC data storage : 120 for 3 levels of QC
- Cost effective determination by micro volumes
- On board Stop Watch
- Optional RS232 communication

ClotQuant is a micro processor-controlled; two or four channel optical coagulation analyzer used to determine basic parameters of hemostasis in human citrated blood sample.

**Detecting Principle :** ClotQuant is based on Advanced Scattered Light principle, hence no interference from Lipemic and Icteric samples.

ClotQuant is designed to carry out coagulometric tests such as Prothrombin Time (PT), Activated Partial Thromboplastin Time (APTT), Fibrinogen (FIB), Thrombin Time (TT) and single factor tests.

**Integrated System :** ClotQuant is equipped with Electronically-linked pipette to reduce manual errors, built-in thermal printer and on-board stop watch.

**Flagging System :** In Sample run, high and low flags will be displayed and printed in run receipt ,based on reference range entered by user.

In QC run, based on mean and SD values entered by user, SD flags (+1, +2, +3,-1, -2,-3), over and under will be displayed and printed in QC run receipt.

## Innovative Features

**Perfect Quality Control Function :** QC Levey Jennings to track performance of controls (Low, Medium and High) for 30 days.

40 tests can be stored for each level of control i.e. total 120 results.

**Monitored Sample Incubation :** ClotQuant ensures accurate results by monitoring the exact Sample Incubation Time.

Temperature does not exceed above or below the user defined limits.

**Ease of Operation :** ClotQuant detector channels can be aligned in any positions to ensure operators convenience.



## Technical Specifications

Measuring Principle	Advanced scattered light
Reagent Type	Open
Reagent Consumption	< 50 $\mu$ L
Tests Performed	PT, APTT, TT Fibrinogen and clotting factors
Test wavelength	470 nm
Testing channels	2 channel (ClotQuant 2) 4 channel (ClotQuant 4)
Sample pre-warming positions	16 positions (ClotQuant 2) 24 positions (ClotQuant 4)
Reagent pre-warming positions	4 positions (ClotQuant 2) 6 positions (ClotQuant 4)
Dispense precision	CV < 2 %
Temperature control precision	37 $\pm$ 0.3°C
Repeatability	Activated partial thromboplastin time tolerance $\pm$ 2 s
Stability	Activated partial thromboplastin time tolerance within one hour $\pm$ 2s
Channel consistency	Each channel activated partial thromboplastin time tolerance $\pm$ 2s
Linearity error	Fibrinogen concentration of the linear correlation coefficient : $r^2 > 0.98$
Memory	5000 test results (500 Patient Id, 10 tests for each ID)
Power supply	230 VAC $\pm$ 10%, 50Hz
Communication interface	RS232 interface, PC connecting
Printer	Built-in thermal printer, 57 mm paper width
Report	Date and ID wise
Work environment	15°C - 30°C
Humidity	= 90%
Dimensions	400mm (L) $\times$ 274mm (W) $\times$ 350mm (H)
Weight	Approx 10 kgs

