

VChem⁺

Programmable Biochemistry Analyzer



*Your **TOUCH**.... that matters*



TOUCH Screen & Key Pad



USB port, RS 232 interface



250 test can be programmed



Patient report with ID and name



Peltier controlled effective temperature regulation



Testing modes : Flowcell and Cuvette - Turbidimetric test can be performed



Coagulation assays can be performed by INR / Seconds, option for editing ISI value



2500 hr lamp life



Programmable Biochemistry Analyzer

Technical Specifications

| | |
|--------------------------|---|
| Human Machine Interface | : TOUCH PANEL/ KEYPAD |
| Linear measurement range | : 0.000 to 3.000 Absorbance Units (A) |
| Photometric Accuracy | : $\pm 2\%$ or 0.007 whichever is higher, from 0 to 2.0 A, $\pm 3\%$ from 2.0 A to 3.0 A |
| Drift | : < 0.003 A/hr. |
| Optical measurement | : Silicon Diode |

Filters

| | |
|------------------|---|
| Type of filter | : Interference |
| Wave Length | : 340, 405, 450, 510, 546, 578, 630 & 700nm |
| Half Bandwidth | : $\pm 2\text{nm}$ |
| Filter Selection | : By Stepper motor |

Flow cell

| | |
|------------------|--|
| Sipping Volume | : 200 to 1000 μl |
| Flow cell volume | : 18 μl |
| Sipping Mode | : Automatic by specially designed Peristaltic Pump |
| Cuvette Volume | : 500 μl |

Temperature of Cuvette / flow cell Block

| | |
|--------------|--|
| Method | : By Peltier effect |
| Temperature | : 25°C , 30°C and 37°C |
| Light Source | : 6V / 10W Tungsten Halogen lamp |
| Warm up Time | : 90 Sec. |
| Display | : 5" blue black, Negative STN Display |
| Printer | : Built in 55 mm, stationary head graphical thermal printer |
| Memory | : 64 KB - Non volatile RAM with Battery back up |

| | |
|-------------------------|--|
| Storage Capacity | : 250 Open tests with 30 QC results/test (Normal and Abnormal controls) and 2500 Patient results with patient ID |
|-------------------------|--|

| | |
|----------------------|--|
| Analysis Mode | : Absorbance End point Fixed time Kinetic Differential Ratio Coagulation |
|----------------------|--|

| | |
|---------------------------|----------------------------|
| Concentration calculation | : By factor or by standard |
| Blanking | : Water, Reagent, Serum |
| Port | : RS 232 standard, USB |

Power

| | |
|--------------------|---|
| Wattage | : 100 Watts |
| Voltage | : 110-270 Volts $\pm 10\%$, 50-60 Hz |
| Operating Position | : On horizontal, flat, rigid and vibration free surface |

Operating Conditions

| | |
|-------------------|--|
| Temperature | : from $+18^{\circ}\text{C}$ to 35°C |
| Relative Humidity | : up to 85 % |

Storage Condition

| | |
|-------------------|---|
| Temperature | : from -10°C to $+60^{\circ}\text{C}$ |
| Relative Humidity | : up to 85 % |
| Enclosure | : ABS Fire retardant |
| Size (cm) | : 30X38X13.5 (lxbxh) |
| Weight | : 7.0 Kgs. (Approx) |



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