

Technical Specifications

Optical System

Flow Cell	30µl quartz
Light Source	Quartz Halogen Lamp 6V/10W
Temperature	25°C, 30°C, 37°C, Room Temperature
Temperature Control	By peltier element
Photodetector	UV Enhanced Silicon photodiode
Cuvette option	10mm square cuvette/Round cuvette (optional)
Filter	7 interference filters (340,405,505,546,578,620 & 670nm) with 3 optional positions
Filter selection	Stepper motor based filter wheel

Measuring System

Reaction Volume	350-1000µl
Aspiration	Peristaltic pump with stepper motor
Photometric Range	0.0 to 2.5 Absorbance
Resolution	0.001 Absorbance
Linearity	≤ 1%
Blanking	Automatic Zero Setting
Calibration	Automatic against standard with auto storage of graph for all tests

Measurement Methods

- ▶ End point/one point with or without reagent blank & sample blank
- ▶ Fixed time/two point kinetics with or without reagent blank
- ▶ Kinetic test with linearity check
- ▶ Bichromatic with or without reagent blank
- ▶ Multipoint Calibration (Non Linear) of 10 multi standards with curve fit formula
- ▶ Absorbance

Operator Interface

Total Programmable Tests	248
Direct Test Keys	48
Quality Control	3 Controls per test with Levey Jenning graph
Display	320 x 240 alphanumeric LCD
Printer	Graphical inbuilt thermal printer
Air purge	After each sample
Keyboard	Qwerty alphanumeric membrane keyboard(80 keys) for direct function entries
Communication Interface	- RS 232,USB port - LAN (Optional)
Memory	- 10,000 test results - 3 types QC results and graph for all tests - Calibration curve and results for all tests
Result recall	- Reagent blank for all tests Test name, Patient name, Sample ID, Date

Physical

Dimension	420(W) x 310(D) X 150(H) mm
Power Supply	110-250V, 50 ±10 % Hz
Weight	8 kgs approx.

Environmental Conditions

Storage condition	0 - 40°C
Temperature	0 - 80°C
Non-condensing humidity	0 - 80°C

Operating Condition

Temperature	10° - 40°C
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