

Technical Specifications

OPTICAL SYSTEM / PHOTOMETER

Optical Design	Single beam with rotating filter wheel
Measurement Mode	Monochromatic & Biochromatic
Light Source	Quartz Halogen Lamp, 12 V, 20 W
Photometric Range	-0.05 ~ 2.5 Absorbance
Standard wavelengths	340, 405, 510, 546, 578, 630 nm + Two optional
Filter Type	4-Cavity interference, long life ion beam assisted deposition
Wavelength accuracy	+/- 5nm
Sample Holder	18 µL flow cell, 10 mm square/semi-micro cuvette, Coagulation adaptor and cuvette

DATA PROCESSING

Calculation Modes	Absorbance End Point (with & without sample blank) Kinetic (with and without Reagent Blanking) Fixed Time (with and without Reagent Blanking) 1-Point with Sample Blank Coagulation
Calibration	Profile (up to 8 tests/profile) Factor mode Single-standard mode Multi-standard mode (up to 6 standard) (spline) Multi-standard mode (up to 6 standard) (point to point)
Data storage capacity	144 test parameters 24 profiles 2000 (latest) samples, 200 calibrators/standards, 576 daily controls 10 (latest) graphs
Result retrieval	Patient ID wise, Test wise, Date wise

TEMPERATURE CONTROL

Cuvette temperature	Peltier based
Operating temperature	30 & 37 °C (+/- 0.2 °C)
Incubation block	Inbuilt for 37°C ± 0.2°C 16 places for 12 mm diameter test tubes

FLUIDIC SYSTEM

Flow cell volume	18 µL
Aspiration volume	200 µL ~ 2000µL
Aspiration	Stepper driven peristaltic pump
Data Management	
Display type	240 x 128 resolution graphical LCD with backlight
Data input	In-built 28 keys membrane keypad Facility to connect to external standard computer keyboard
Data Output	Real time curve plotting of absorbance Vs. Time Internal thermal printer (speed up to 0.5 lines/second) Facility to connect to external 80 column dot matrix printer Serial port for computer connectivity

POWER /DIMENSIONS

Power requirements	Input Voltage : 90-260 VAC, 50/60 Hz
Power Consumption :	100 Watts Max
Operating Environment	20°C to 40°C, RH 85% max
Relative Humidity	10% to 85%, Non-condensing
Dimensions	35 cm (W) X 34 cm (D) X 26 cm (H)
Weight	<10 kg

For more information contact:



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In-built Peltier regulated incubation compartment

Cost Efficient

- Saves cost of buying additional Incubator (approx. Rs.5000)
- Saves space of approx. 1 Sq. Feet for placing the additional incubator

Flexible

- On/Off facility for using incubator when required

Convenient

- Integrated timer with buzzer for ensuring right incubation time



Integrated Coagulation Testing Mode

Cost Efficient

- Saves cost of buying additional Coagulation Analyser (approx. Rs.75,000)
- Saves space of approx. 1 Sq. Feet for placing the additional incubator
- No manual calculation of INR

Convenient

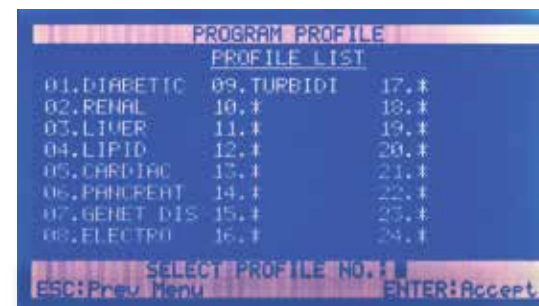
No maintenance of additional coagulation instrument & accessories



Single & Profile Wise Testing Facility

Program to create 24 different profiles / panels & upto 8 different tests in each profile

- Convenience of running multiple parameters on same sample without switching program
- Enables faster sample turn around



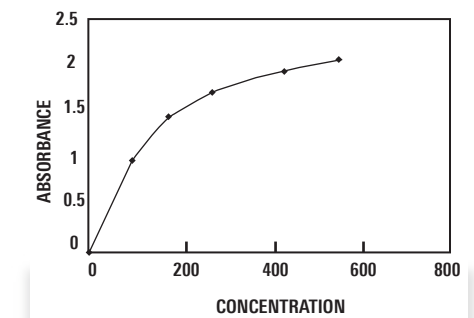
Flexible Calibration Modes

Single & Multi-Point Calibration Possible

- Flexibility to run routine as well as specialized parameters (Eg. Immunoturbidimetry) on same instrument

Auto-normalization of Calibration curve making recalibration simple & cost effective

- Recalibration can be done using any 1 Standard and the instrument will automatically normalize the calibration curve
- Save cost of expensive reagents and standards



Easy Operation

1. Wash & Aspiration function can be controlled using External Keyboard (optional PS/2 keyboard)

2. Direct access key to run tests

- Saves time by directly running 9 program tests with single key from main menu, without accessing detailed test menu
- Reduces chance of error by eliminating the need to memorize test menu number



Enhanced Data Management Capability

Enhanced Patient Data Storage & Retrieval

- Stores data of latest 2000 samples, 200 calibrators/standards, 576 daily controls and 10 reaction graphs
- Flexibility to retrieve Sample & Calibration results by – Patient ID, Date & Test Name
- Facility to input patient information & demographic details

Daily & monthly QC program

- Manage 2 levels of controls with Levey-Jennings Chart