



# Chem 1000

Semi-Automated chemistry analyzer

- compact design
- friendly software
- Inbuilt incubator
- 8 position for chemistry test
- 5 position for coagulation test



New generation **Semi-Automated Clinical Chemistry Analyzer**  
Routine biochemistry with Measurement modes



**Beta lab group**

Chem1000 is a compact, convenient, new generation analyzer most suitable for medium sized and small laboratories, also as a backup for big laboratory or hospital setups.

## General Features

### Assay types

Absorbance - Endpoint - Kinetic - Fixed Time - Coagulation

### Calibration Modes

K-factor - one point - two point - Multi point - Spline - Parabola - etc

### Wavelengths

Interference filters:  
 340nm    405nm    450nm    505nm  
 546nm    578nm    630nm    670nm

### Inbuilt incubator

8 position for test tubes and 5 position for coagulation tube

### Photometric Linearity

0.0 to 3.0Abs

### Temperature Control

25,30,37°C by peltier

### Measurement Mode

Flow Cell or Cuvette

### Printer

Built-in 2" Thermal Printer  
 (can be switched ON/OFF, when desired)

### Aspiration Volume

250µL to 1000µL

### Interface

External Keyboard/ Mouse

### Cuvette Volume

Volume 500µL

### Power supply

100 - 240V AC ±10%, 50/60 Hz

### Flow Cell

18 µL

### Storage Conditions

Temperature: 15°C to 40°C  
 Relative Humidity: up to 85%

### Storage Capacity

196 Programs, 5000 Test records

### External Dimensions

360mm(L) x 360mm(B) x 220mm(H)

### Light Source

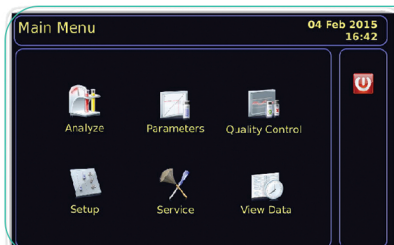
6V/10W, Tungsten Halogen Lamp

### Weight

6.5Kg(approx)

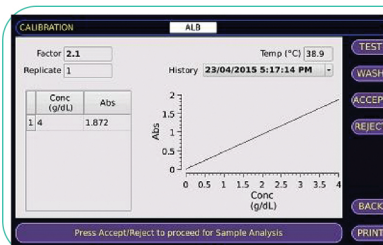
### Display

7" Graphic LCD with resistive touch screen



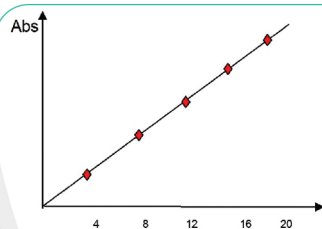
### Main menu

- chem1000 is analyzer with a variety of features and performance levels to fit any application
- full size graphical display gives you true convenience in operation and minimizes errors while entering data.
- User friendly software with interactive Graphical user interface.
- shortcut keys for Menus to ease the operation.



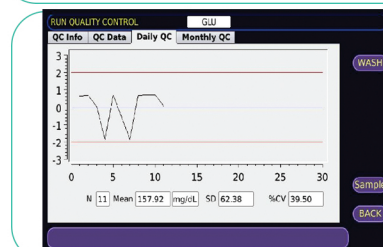
### Calibration

Availability of various Calibration types like K-factor, Linear and Non Linear calibration curves like Spline, Logit-log, Exponential, Parabola and Polynomial enables the Chem1000 to run variety of biochemical and immunoturbidity assays



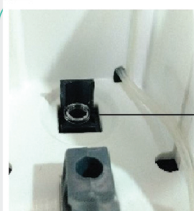
### Multi point

In this calibration mode, calibration curve is formed by using more than two standards and is plotted till the linearity



### Run Quality Control

- Levy Jennings plot of daily and monthly QC data to give the visual indication of the performance of assays and gives additional advantage for the accreditation of the Laboratory
- Collated Patient reports (date-wise, test-wise and patient-wise): 5000 stored results with reaction curve



position of Coag-tube Adaptor

### Coagulation

Coagulation is based on the optical measuring principle. Homogeneous mixer of plasma sample & reagent results in the formation of fibrin strands. The insoluble fibrin network forms a distinct clot which results in a change in the absorbance. Clotting time in seconds is declared.

- after 90 sec, result with graph will be displayed.



### ASPIRATION SYSTEM

- **Aspiration system:** Internal peristaltic pump driven by DC motor for accurate and precise aspiration of reaction mixture
- Air purging after every sample aspiration, to minimize carryover
- **Maintenance:** Automatic cleaning of flow cell at the end of assay and at shutdown with special wash solution improves the performance of the analyzer