HEME®

The Future of Healthcare

LT-100

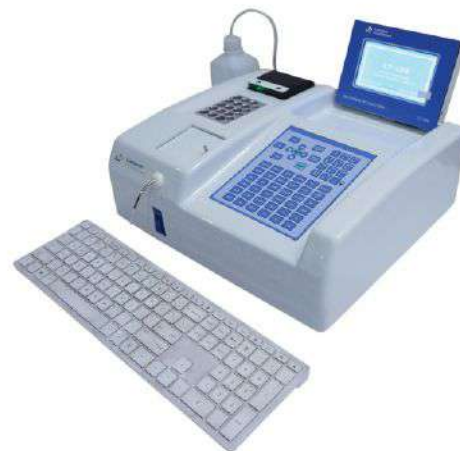## Semi Automated Clinical Chemistry Analyzer

- Versatile & easy to use
- Excellent performance
- Low maintenance
- Low reagent cunsumption
- Low cost per test
- Minimal training
- Fast flexible backup
- Fit & Forget

LT-100

Semi Automated Clinical Chemistry Analyzer

Technical Specifications

- User friendly software
- End point method - Storage of abs of regent blank in memory / graphs for KIN test
- Triplicate calibration mode for EP / KIN / Fix time.
- Triplicate mode of sampling with / SD / CV
- Print out of laboratory and doctor's name
- For kinetic test : Online graph and OD, Graph editing facility, estimation of result
- Air purge between sample to avoid carry over / lamp saver made
- 50+ Direct test keys for test selection
- Utility mode for self diagnosis checking / 16 bit ADC
- Sample type : serum / plasma / CSF / urine / whole blood / hemolysate
- Calculator for lipid profile / globulin ration / S. Iron TIBC / billirubin
- Photometric range 0-3.0 Abs with resolution of 0.0001 Abs.

Method of Calculations

Absorbance
End Point
Fixed time   with standard or factor
Kinetics
Differential / Coagulation - PT / APPT/
Multipoint upto 10 standards

Optical system

Principle	:	Absorption spectrophotometry
Measurement	:	From -0.1 to 3.0 a for
Spectral range	:	Automatic via filter wheel
Filters	:	340, 405, 505, 546, 578, 630 & 670 nm can be added three more filter
Bandwidth	:	8nm(±2nm)
Light source	:	Halogen lamp 12v/20W or 6v / 10w
Zero	:	Automatic
Settings	:	Monochromatic and Bi-chromatic mode
Detector	:	Schottkey type photodiode - silicon

Thermostat : Flowcell / cuvette chamber

Accuracy : ± 0.1°C
Peltier regulated from 20°C in steps of 1 C

Cuvettes

Flow cell volume less than or equal to 35 μL with temperature programmable for 25C, 30C, 37C.
Reagent Aspiration Volume : 250 ul to 350 μL.
Cuvettes : Semi-micro plastic or glass.

Interface

Bi-Directional peristaltic pump / Sipping volume programmable from 50 uL to 1.0ml.

Suction System

Screen	:	Graphic LCD 240/128 pixels
Keyboards	:	Tactile Soft - Touch / USB*
Printer	:	Built-in 57 mm thermal printer

RS - 232 for pc connection
Parallel port for 80 column dot matrix printer*

Power / Dimensions

Voltage	:	110-220 V / 50-60 Hz
Power Supply	:	<110W
Temperature	:	10°C to 40°C Relative humidity ≤ 80%
Dimensions	:	13mm diameter

Programming

Table of tests	:	up to 235
Table of units	:	up to 9 units (editable)
Memory	:	50000+ test results

Quality Control

3 controls per test - Low, normal & high
Quality control storage
Levy-Jennings charts & Westagard's rules