Instrumentation Laboratory

A Werfen Company

iLab 650

The Power of
PROVEN TECHNOLOGY

Biosite
MEDICAL INSTRUMENTS

738 Shaw Boulevard, Mandaluyong
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Intended Use

The ILab 650 is an automated, random access clinical chemistry analyzer which uses analytical techniques (photometry and potentiometry) for the in vitro quantification of analytes found in physiological fluids, such as serum, plasma, urine or cerebrospinal fluid. The results of the measurements are used as medical diagnostic tools.

Instruction for Use

“The analysis of patient samples is started through the Operation screen.The Operation screen is displayed by selecting Operation under the analysis menu or by clicking on the Operation icon. The screen allows the user to select the Operation functions to be performed for each analysis run. The use of each option on the Operation screen is described in its own chapter in this section of the manual. When the operation screen is first opened, Sample Analysis is automatically selected. The operator selects the operations to be performed and starts the analyzer by selecting; Start on the screen or the start button on the front of the analyzer. When the Operation screen is opened after an analysis run, the selections for the previous run are displayed and new selections are enabled after pressing the Reset button.”

Major Parts and Components

- Reagent Compartment
- Sample Probe
- Sample Tray
- Reagent 2 Probe
- Reagent 1 Probe
- Sample Compartment

TECHNICAL SPECIFICATIONS

Tests on line	Up to 99
Programmable tests	100 photometric, 3 ISE, 3 serum index, 20 calculated
Throughput, test per hour	400 photometric + 400 ISE
Measuring methods	End point, fixed time and kinetic
Sample loading	Up to 75 sample containers in the tray
Sample container	Primary tubes and cups
Sample volume	From 2 to 40 µL (step 1 µL)
Reagent dispensing	Direct pick-up method
Number of reagents on board	Up to 96, refrigerated
Reagent containers	10, 20, 25, 50 and 100 mL bottles
Reagent volume	From 20 to 400 µL (step 5 µL) for reagents 1, 2, 3 and 4
Total volume of reaction	From 180 to 400 µL
Reaction cuvettes	81 permanent Pyrex® glass, 5 mm optical pathlength
Reaction time and photometric readings	9.6 min, 33 data points (up to 2-reagent tests) - 21.8 min, 74 data points (up to 4-reagent tests)
Photometric system	Direct photometry, stationary photometric unit, rotating cuvettes
Available wavelengths	12 wavelengths ranging from 340 to 850 nm, holographic gating and photodiode array
Signal output	Bi-directional RS-232 interface integral to the system
ISE channels	Sodium, Potassium, Chloride
ISE measuring technique	Indirect potentiometry, sample dilution ratio 1 : 21.7
ISE electrodes	Single channel, maintenance free
ISE calibration	Automatic internal periodic calibration

Installation Requirements

Power requirement	120 - 230 V ± 10 %, 50/60 Hz, 2 KVA
Power consumption	1.6 KVA
Ambient temperature/humidity	15 - 30 °C, 45 - 85 % RH non condensing
Dimensions / Weight	98 W x 76 D x 118 H cm / 300 Kg
Purified water supply inlet	Max 24 Litres/hour, 0.5 to 3.5 kg/cm2 of pressure

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