Erba Mannheim

TRANSASIA®
No.1 Diagnostic Company in India

Erba LisaScan® EM

Automated ELISA Microplate Reader

Auto self-checkup on every start

Minimal reading time: 8 seconds for 96 wells plate

LED touch screen with user-friendly operating software

100 user-programmable ELISA test slots

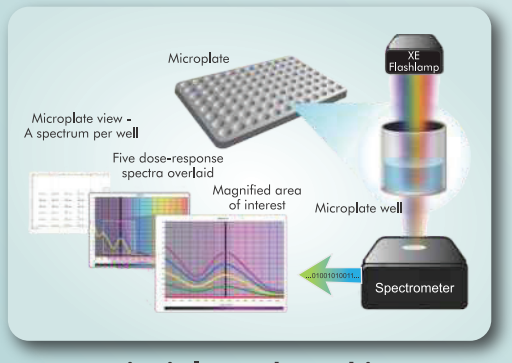
In-built thermal printer, option to connect external printer

Two models available: 4 Filter and 6 Filter

Single, Dual and Multi wavelength reading options with advanced LED single channel optical system

Numerous options for Blanks, Measurement modes and Calculation modes

'ELI-LIMS' : Computer connection software for ELISA data management and Quality Control functions



Principle and Working of ELISA reader

A Snapshot from ELI-LIMS software

Erba LisaScan® EM

Automated ELISA Microplate Reader

Technical Specifications

System type
Open System

Plate types
96 well plates

Wells Type
U.V and Flat bottom wells

Operating Modes
Absorbance
Quantitative
Qualitative
Semi-Quantitative
Kinetic Mode

Measurement Modes
Continuous / Step

Shaking Modes
Three Linear Speeds - Low, Medium and Fast
Time duration can be set

Wavelength Selection
Monochromatic,
Bi-Chromatic,
Multi-Chromatic* (Maximum 4)

Calculation Modes
Non-linear Standard
Cut-off
Index Formula
Linear Regression
Point to Point
Cubic Spline
Linear - Log

Blank Options
Blank, Contol, Assay
Validation equations
Against Air, Well, Plate, Column, Column-mean, Row, Row Mean.

Number of programmable standards / calibrators
Up to 10 standards
Storage/ display/ printing of multi standard curves and cut-off equations for all parameters.

Test Programs
100 user defined Test Programs

Photometer

Measuring system	: Single Channel optical System
Lamp Source	: LED
Wave length Range	: 400 to 800 nm
Standard Filters	: 405 nm, 450 nm, 492 nm, 630 nm (10 nm Band Pass). (Optional two filters 578 nm, 700 nm)
Dynamic Range	: 0.0~4.0 OD
Accuracy	: 0.0 to 3.5 ≤ 1% at 450 nm
Precision	: 0.0 to 3.5 ≤ 1% at 450 nm
Linearity	: Up to 3.5 OD at 450 nm
Resolution	: 0.0001 OD
Drift/ Stability	: < 0.0001 (at 450 nm in 12 hours)

Measurement Time

Single wavelength	: ≤ 25 Secs
Dual wavelenght	: ≤ 55 Secs

Display
High resolution graphic LED backlight with touch screen

Keyboard
Sturdy membrane panel

PC Communication
USB

Built-in Thermal Printer
High resolution, 384 dots per line, thermal type with full graphics facility, and option for connecting external parallel printer.

Computer interfacing Software
Windows Based Software
Eli-LIMS for data management (Optional)

Reports format
Alphanumeric patient ID based linear and matrix reports with OD, Conc, Cut off interpretation etc. Calibration graphs stored & printed.
7000 sample test results can be viewed / stored / printed

Online Help
At each step on-line help in each menu.**Beeps and online instructions on erroneous entry. Special HELP key on keypad.**

Operating Temperature
20°C to 40°C

Storage Temperature
5°C to 45°C

Humidity
Max. 80% RH, non-condensing.

Power Supply
24 V DC using external adapter, working on 100-24- VAC, 50/60 Hz, Max 60 Watt. (CE & UL certified)

Dimension
502 x 369 x 216 mm

Weight
10 Kg

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