

➤ ELISA READER

The ELISA Plate Reader is a user friendly micro plate Analyser. It is compact & lightweight. It is designed to measure and interpret enzyme immunoassay results, both monochromatically and Bi-chromatically. It is intended for in vitro diagnostics.

CAT#: DIA2000

Special Features

The ELISA Reader can accommodate a flat bottom as well as a round configuration.

The carriage is designed in a way that the plate automatically moves smoothly and positions itself accurately in the optical measurement path. Readings are taken continuously. The average value is calculated and results are presented according to the option selected.

The ELISA Reader has a special provision, which allows it to be used even when a printer is not available. Readings can be conveniently noted down manually.



The other special features of ELISA Reader are as follows:

- Option of Lamp saving mode
- Selection of both primary and secondary filters
- Latest technology with battery backup for 250 tests, and 100 plate data
- Robust built in 52-column thermal printer with 384 stationary heads
- Unique circuitry for long lamp life
- Alphanumeric Patients ID entry
- Editing of saved tests
- Human machine user interface: Touch panel, Keypad
- Multi-standard curve up to 12 standard calibrations with one blank optional
- Access to test by touch of key
- It takes 16 secs to read the plate
- With help of colour combination, we can distinguish the calibrator, control, high and low sample
- Blank is optional
- Setting of the Date and Time
- Capable of storing, deleting and recalling tests
- Multiple calibrator modes
- Selection of duplicates for both calibrators and samples
- Extensive software for cut off mode
- Selection of Positive, Equivocal, Negative cut-off
- Several pre-programmed calculation modes will help to facilitate data processing of enzyme immunoassays. These are menu driven modes for simple and error free operations:
 - Absorbance mode
 - Single Standard Mode
 - Cut-off mode
 - Multi-standard mode
 - % Absorbance mode
 - Uptake
 - Ratio

Technical Specification

Human Machine Interface	Touch panel / Keypad
Linear measurement range Spectral Range	0.000 to 3.000 Absorbance Units
Filters	Type of filter: narrow band Interference Wave Length: 405nm, 450nm, 492nm, 630nm with two optional filters namely – XXX and YYY (editable) Half Bandwidth: 10nm \pm 2nm Selection: automatic by Stepper Motor
Drift	<0.005A/hr
Photometric Linearity	2.5A
Photometric Accuracy	+/- 2% or 0.007 (0 to 1.5 A), +/- 3% from 1.5 A to 3.0 A
Optical measurement	2 channels
Light Source	Tungsten halogen lamp, 20 Watts
Display	5" TFT Colour Display
Curve Plotting	STN 480*800 pixels, Graphical representation on printer
Printer	Built in thermal printer 52 columns
Analysis Mode	Absorbance, Single Standard, Cut-off, Multi-Standard, % Absorbance, Uptake, Ratio
Memory	2 MB RAM
Plate Carrier Movement	Precisely through the stepper motor
Well Type	Capable of reading U,V and Flat type wells
Connectivity RS232 Serial Port / USB	9600 baud, 8 data, 1 stop, no parity bits / USB
Size (cm)	36 x 36 x 22 (lxbxh)
Weight (Approx.)	10 Kgs
Power/Wattage/ Voltage	75W, 115-230 Volt \pm 10%, 50/60 Hz
Operating Conditions/ Temperature /Relative Humidity	From + 18°C to 35°C, Up to 80%
Storage Conditions	From -10°C to 40°C, up to 80%