



Key features

- ELISA Analyzer features a photometric microplate reader with 8 channels, using silicon photodiode detectors and a tungsten halogen lamp, covering 340 to 750 nm wavelength range. It uses a single-channel pipetting system with disposable tips. It allows for one or multiple ELISA assays to be processed on a single microplate. Our ELISA analyzer is equipped with advanced liquid handling technology for fast and accurate pipetting.

Technical Specifications

- Measurement Module - Photometric microplate reader module
- Measurement System - 8-channel; detector: silicon photo-diodes; light source: tungsten halogen lamp
- Wavelength Range - 340 to 750 nm
- Filter Configuration - 405, 450, 492, 630 nm + 4 empty filter positions
- Measurement Range / Increment - 0.000 to 3.000 A / 0.001 A
- Measurement Modes - Single- and dual-wavelength measurement
- Accuracy - ± 0.002 A (0.0 to 1.0), ± 0.003 A (1.0 to 2.0)
- Precision - CV < 1.0% (0.6 to 0.9 A)

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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- Design - Benchtop system with single plate ELISA processing unit combining pipetting position, washer, incubator and reader onto one platform
- Working Platform - Flexible setup at Sample, QC, reagent carrier positions and loading volumes
- Liquid Handling System - Pipetting by air displacement, disposable tips
- Number of Channels - 1
- Specification of Tips - 300 μ L, 800 μ L tips
- Pipetting Range/ Increment - 5 to 800 μ L / 0.1 μ L
- Pipetting Accuracy and Precision of 300 μ L at 100 μ L volume - $\pm 1\%$, CV \leq 0.75 %
- Pipetting Accuracy and Precision 800 μ L at 100 μ L volume - $\pm 1\%$, CV \leq 0.75 %
- Liquid Handling Speed - 130 sec for pipetting 100 μ L into 96 wells (incl. tip exchange), 160 sec for dispensing 100 μ L into 96 wells (no tip exchange)
- Liquid Handling Functions - Pipetting, dispensing, dilution, conjugation, aliquoting, multiple- and diversified dispensing
- Liquid Level Monitoring - Liquid level monitoring, clot monitoring and empty tube monitoring
- Sample Tubes - 8 \times 12 to 96 samples (13 mm standard tube diameter, other customizable)
- Reagent Racks - 4 \times 2 (80 mL) or 4 \times 4 (16/30 mL), standard reagent position bottles / vials / custom
- Plate Positions - One plate on plate drive + one standard or deep well plate preloaded
- Incubator - 1 \times light protected position
- Temperature Range - Room temp to 60°C, 0.1°C increment
- Temperature Accuracy - $\pm 0.5^\circ\text{C}$ at 37°C
- Washing Channels - 1 \times 8
- Liquid Containers - 2 bottles for wash buffers, 1 for waste (with liquid level sensors)

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- Wash Volume - 50 to 1000 μ L per well
- Residual Volume - ≤ 1 μ L/well
- Washing Modes - Dispense–aspirate, over flow wash, crosswise aspiration with selectable injection height, soak time and final aspiration
- Barcode Scanner - Manual (optional)
- Software - Windows based control software
- Operating Temperature - 18 to 25°C, Humidity 30 to 60% (non-condensing)
- Storage Temperature - 10 to 30°C, Humidity 15 to 70% (non-condensing)
- Interface - USB, RS232
- Power - 300 VA, Voltage: 220V $\pm 10\%$,
- Frequency:- 50 to 60 Hz

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