

ELISA READER MACHINE

ALS-INS008



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DESCRIPTION

THE ELISA READER MACHINE ALS-INS008 is a sophisticated instrument designed for measuring fluorescent, chemiluminescent, and chromogenic responses in ELISA assays. It is tailored to fit standard 96-well plates and provides precise quantitative data for each well, enhancing efficiency in diagnostic and research applications.

FEATURES

- **User-Friendly Interface:** Graphical and ergonomic interface for seamless operation.
- **Display:** Bright, large LED touchscreen for enhanced visibility and intuitive control.
- **Plate Layout:** Flexible setup accommodating blanks, standards, samples, references, and QC on a single screen.
- **Multi-Test Functionality:** Supports up to 24 distinct tests on one plate, streamlining complex workflows.
- **Optical System:** Features an 8-channel optical fiber scanning system with auto plate-centering for precise measurements.
- **Wavelength Options:** Single or dual wavelength readings, with advanced data evaluation tools including cut-offs and curve-fits.
- **Calibration and Adjustment:** Automatic lamp adjustment and calibration for improved accuracy and reduced operational costs.
- **Data Input and Output:** Touchscreen supports handwriting input and compatibility with a mouse and keyboard. Data output options include local storage, USB, and network integration (Text and Excel formats).
- **Reporting:** More than 20 reporting formats available, including comprehensive patient reports, with USB printer support

TECHNICAL SPECIFICATIONS

Plate Style	48-hole, 96-hole microplate or bar plate
Applicable hole	Flat, V-bottom or U-bottom
Wavelength Range	400 ~ 800 nm
Standard Filters	405, 450, 492, 630 nm
Additional Filters	On request, filter wheel for up to 8 filters
Reproducibility	≤0.2%
Shaking	Linear Shaking, 3 speeds
Screen	7 Inch color LCD
Interface	USB, VGA, Network Interface, Audio Interface, RS-232
Read Speed	Single wavelength ≤ 3s / 96 holes
Power Supply	100 ~ 240V, 50 ~ 60Hz

PARAMETERS

Light Source	Controlled tungsten halogen lamp
Photodetector	Silicon Photodiode
Indication Range	0.000~4.0000D
Accuracy	±1.0% at 1.0 OD, 450nm
Resolution	0.0010D
Stability	±0.0030D
Display	10.4-inch color LED display, resolution 1024*600
Data Storage Best	2,000,000 test data, more than 500 test projects
Environment	5°C ~ 40°C; max humidity: 80%
Dimensions/Weight	460 × 350 x 197 mm/10kg