



ElisaMicroplate Reader

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Darsun Scientific ElisaMicroplate Reader

DSE-MLO200 DSE-ML0200H



Product Overview

It's a high-quality microplate reader based on a monochromatic with a wavelength range of **200–1000 nm**. It can be used for spectral scanning, endpoint method, and kinetic detection. Suitable for **96-well plates** and **384-well plates** with or without lids.

FEATURES

Product Features

1. Wide wavelength range: 200–1000 nm for versatile absorbance-based assays.
2. High-precision detection: Monochromatic with 1 nm wavelength step for accurate measurements.
3. Dual-beam optical system: Two silicon photodetectors provide stable and reliable measurement performance.
4. 96/384-well compatibility: Supports both 96-well and 384-well microplates for high-throughput testing.
5. High measurement accuracy: Excellent absorbance accuracy and repeatability for reliable assay results.
6. Xenon flash lamp: Long-life xenon light source with automatic calibration for stable operation.
7. Fast measurement: 96-well plates can be measured in less than 8 seconds in fast mode.
8. Multiple detection modes: Supports spectral scanning, endpoint, and kinetic detection.
9. Large touchscreen interface: 10-inch LCD touchscreen with built-in software for convenient operation and data management.
10. Large data storage: 16 GB internal storage with capacity for more than 20,000 data files.
11. Temperature control: Temperature range of RT +4°C to 45°C for temperature-sensitive assays.
12. Optional U-Nano Ultra-Micro Plate: Enables micro-volume nucleic acid and protein quantification using only 2–4 μL samples.

Specification

Parameter	DSE-ML0200	DSE-ML0200H
Cuvette Mode	NO	yes
Microplate Type	96/384 wells	
Detection Mode	Absorbance	
Light Source	Xenon flash lamp / number of flashes >10 ⁹	
Wavelength Range	200–1000 nm	
Wavelength Accuracy	2 nm	
Wavelength Repeatability	0.2 nm	
Optical System	Monochromatic, 1 nm step	
Reading Range	0–4.00D	
Bandwidth	<2.5 nm	
Detection System	2 silicon photodetectors, one for measurement, one for reference	
Linear @450 nm	R ² ≥ 0.999, [0.0–3.0 Abs]	
Absorbance Accuracy @450 nm	±(1.0% + 0.003 Abs), (0–2.0 Abs); ±2.0%, (2.0–2.5 Abs)	
Absorbance Repeatability @45nm	CV<0.5% or SD<0.003 accu rate mode; CV<1.0% faste mode	
Measuring Speed	96-well plate: fast mode <8 seconds, accurate mode <28 seconds (end point method)	
Shaking	Linear, 3 speeds adjustable	
Temperature Range	RT.+4°C–45°C	
Temp. Accuracy & Uniformity	±0.5°C @37°C, ±0.5°C @37°C	
User Interface	Built-in software, independent use	
Optional	Reader It-II software, u-Nano Ultra-Micro Plate, ABS Optical Performance Validation Board	
Operation Display	Touch screen input, Android system, 10-inch LCD display full board information; can be connected with keyboard and mouse	
Internal Storage	16 GB storage, can store more than 20,000 data files	
Port	1 Type B USB interface, 2 Type A USB interfaces, 1 network port	
Robotic Arm Compatibility	Temporarily incompatible	
Electricity	DC 24 V, 6.67 A	
External Dimension (W×D×H)	300×500×280nm	
N.W./G.W.	15.5 kg / 21 kg	
Package Dimension (W×D×H)	690×490×500 mm	