



MICROPLATE READER
Detection Expertise

Microplate Reader

DS-5000



FEATURES

SPECIFICATION

Applications

All photometric and turbidity studies; spectral scanning, endpoint, and kinetic assays.

Monochromator

High-quality grating (190–1100 nm; 0.1 nm increment; filter-free).

10-inch Color Touchscreen

High-definition LCD with Android OS for intuitive touch operation.

Visual workflow design compliant with IVD human factors engineering standards.

Advanced Analysis Modes

Measurement Modes: Absorbance, Cut-Off Qualitative Analysis, Turbidity.

Calibration Methods: Single Point / Linear Regression / Polynomial Regression / Exponential Regression / Logarithmic Regression / Log-Log Regression / Logit-Log / Power Regression / 4-Parameter Logistic (4PL) Regression / Custom Equations.

Microplate Analysis Software

Universal control interface for all DR-series microplate readers.

Visual workflow: Plate Layout Setup □ Spectral Analysis □ Data Processing.

Export Formats: TXT, PDF, Word, Excel.

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Parameter	Specification
Wavelength Range	190–1100 nm Adjustable
Spectral Bandwidth	2 ± 0.4 nm
Wavelength Repeatability	≤ 0.2 nm
Linear (450nm)	R ² ≥ 0.999 (θ3.0A)
Abs Repeatability (650nm)	SD ≤ 0.003A, CV ≤ 1.0%
Detection Speed	10s / 96 Well
Cuvette (Optional)	1 cm Standard Cuvette
Operation	Touch Screen, Android System
Comm Interface	USB A, USB B
Dimensions	503 × 376 × 330 mm
Reading Range	0.000–4.000 A
Wavelength Accuracy	± 0.5 nm
Stray Light	≤ 0.05% (220 nm)
Abs Accuracy (450nm)	1.0% ± 0.003A (θ2.0A), 2.0% (2.θ2.5A)
Incubation	On-board heating to 45°C
Microplate	Standard 96 Well
Display	10-inch capacitive color LCD screen
Shake	Linear shaking with 3 kinds of speed
Power	100–240V, 50/60 Hz
Net Weight	15 kg



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