Microplate Reader / ELISA

MRX **A2000**

MECASYS

MRX Series

Microplate Reader MRX A2000 can be used with 6 - 384 well plates and cuvettes, and provides excellent measurement performance in the UV-VIS range.

The MRX series supports intuitive control and experimental design through PC software, enabling efficient analysis workflows tailored to the user's laboratory environment. It offers multiple measurement modes, including Endpoint, Kinetic, Spectral Scanning, and Well Area Scanning, and integrates incubation and shaking functions within the instrument. This allows reliable application across a wide range of assays, such as ELISA, enzyme kinetics, and cell-based analyses.

25 MONTHS WARRANTY

Microvolume Plate (*Optional)

The MRX A2000-specific microvolume plate is designed for handling small sample volumes (2μL), especially for DNA, RNA, and protein analysis. It typically consists of wells designed to accommodate various experimental samples. This plate allows for precise measurement and analysis of sample quantities, enabling accurate results with minimal sample volume, thereby enhancing research efficiency.

Analytical Flexibility

1. Filter-free wavelength control from 190–1,100 nm at 1 nm intervals
2. Four ELISA modes: Endpoint, Kinetic, Spectrum, Photometric
3. Compatible with 6–384 well plates and cuvette port (MRC model)
4. Single software for nucleic acid, protein, and cell-based assays

Precision Environmental Control

1. Temperature control from ambient +2 °C to 65 °C for ELISA and enzymatic reactions
2. Three built-in shaking modes: Linear, Orbital, Double Orbital
3. Uniform reaction mixing without the need for a separate shaker

Specialized Solutions

1. Micro-Volume Plate for DNA and protein quantification without dilution
2. Kinetic-based endotoxin analysis mode (optional)
3. Reads a full 96-well plate in under 8 seconds

· Endpoint or Kinetic ELISA
· Nucleic acid, protein direct quantification
· Microbial growth assay
· Cytotoxicity assay
· Cell proliferation assay
· Spectral scanning
· Endotoxin Testing (*Optional)

Configurations	
MRX B2000	Shaking
MRX A2000 (MR)	Shaking, Incubating
MRX A2000 (MRC)	Shaking, Incubating, Cuvette measurement

Specifications	
Detection modes	UV-Vis absorbance
Light source	Xenon flash Lamp
Detector	Photodiode
Wavelength selection	Monochromator
Wavelength range	190 to 1,100 nm / 1 nm increments
Bandwidth	2.9 nm
Linearity @ 450 nm	< 1 % from 0 to 2.5 OD
Accuracy @ 450 nm	< 3 % at 2.5 OD
repeatability @ 450 nm	at 2 OD: ± 0.5 %
OD repeatability	< 0.5 % at 2.0 OD
Read-out range	0 to 4.0 OD
Resolution	0.0001 OD
Pathlength correction	yes
Wavelength accuracy	± 1.5 nm
Wavelength repeatability	± 0.2 nm
Stray light	0.03 % at 230 nm
Measurement speed (from A1 back to A1)	8 seconds with 96-well plate
Shaking	Linear, orbital, double orbital
Read methods	Endpoint, Kinetic, Spectral scanning, Well area scanning
Microplate types	6-, 96-, 384-well plates
Incubation range	From ambient + 2 °C to 65 °C
User interfaces	PC software
Connections	Ethernet port
Power	110/220 V, 50/60 Hz
Weight	12 kg
Dimensions(W*D*H)	340 mm * 410 mm * 225 mm

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