

 **LABTRON**



MICROPLATE READER

MICROPLATE READER LMPR-A10

It offers high throughput with 3 shaking modes, fast reading speed of 5 seconds and malfunction alarm system along with 96-well multimode and bichromatic multi-channel optical system. Different detection modes like comprehensive qualitative and quantitative data-evaluation functions with cut-offs, curve-fits and transformation formulas are available. It is a basic tool in drug detection and life science research, bioassay testing and quality control pharmaceutical processes.

Features

- ▶ Can store up to 1200 results for 96-well plate
- ▶ 7" TFT LCD Display
- ▶ 8-channel optical measuring system
- ▶ Single wavelength detection
- ▶ Linear shaking function at variable speed with three modes: slow, medium and high
- ▶ Two free positions for additional filters
- ▶ On-board software can store 55 user programmable protocols
- ▶ LCD light source with lifespan over 100,000 hours

Applications

Labtron Microplate Reader LMPR-A10 is an essential instrument in:

- Drug discovery and life science research
- Bioassay testing and quality control in pharmaceutical processes.



LMPR-A10

TECHNICAL PARAMETERS:

Model	LMPR-A10
Plate Type	96-well plate
Display	7" TFT LCD Display
Wavelength Range	400-750nm
Filter Wavelength	405, 450, 492, 630nm
Wavelength Accuracy	<2nm
Wavelength Precision	±0.03A
Wavelength Resolution	0.001 (OD)Abs
Wavelength Linearity	R≥0.995
Wavelength Repeatability	<0.5% at 2.0 OD
Wavelength Stability	<0.005Abs/10min
Spectral Bandwidth	8nm±2nm
Reading Speed	5s single wavelength
Reading Range	0.000-4.000Abs
Measurement System	8 Channel Optical System
Measurement Range	0.001-2.500Abs
Measurement Speed	6-10sec for 96 well plate
Photometric Range	0.000-3.500Abs
Photometric Accuracy	<1% or ± 0.001Abs
Photometric Repeatability	<1%
Temp. Range	10°C-35°C
Humidity Range	15%-85%
Shaking	Linear (slow, medium and high mode)
Light Source	Monochromatic LED
Light Source Life	More than 100000h
Detection Method	Absorbance
Detector	Silicon Photodiode
Detection Modes	Comprehensive Qualitative and Quantitative Data-Evaluation with Cut-Offs, Curve-Fits and Transformation Formulas
Programs	55 user programs
Overall Dimension	400x310x169mm
Power	80W
Power Supply	240V, 60Hz
Weight (Net/Gross)	6/10kg

MICROPLATE READER LMPR-A11

This model features 96-well multimode and bichromatic multi-channel optical system. It offers high throughput with 3 shaking modes, fast reading speed of 5 seconds and malfunction alarm system. Different detection modes like comprehensive qualitative and quantitative data-evaluation functions with cut-offs, curve-fits and transformation formulas are available. It is a primary device in the area of drug detection and life science research, bioassay testing and quality control pharmaceutical processes.

Features

- ▶ 8-channel optical measuring system
- ▶ U, V or flat bottom plate type
- ▶ Single and dual wavelength detection
- ▶ Four free positions for additional filters
- ▶ Input through touch screen panel
- ▶ Linear shaking function at variable speed with three modes: slow, medium and high
- ▶ Automatic motorized plate-access door for plate loading and retrieving
- ▶ Easy to install additional detection filters
- ▶ Self-diagnosing and self-calibrating capabilities
- ▶ LCD light source with lifespan over 2000 hours
- ▶ On-board software can store 42 user programmable protocols
- ▶ Can store minimum 50 assay protocols
- ▶ Can store up to 2500 results
- ▶ RS232 Interface

Applications

Labtron Microplate Reader is an essential instrument in:

- Drug discovery and life science research
- Bioassay testing and quality control in pharmaceutical processes.



TECHNICAL PARAMETERS:

Model	LMPR-A11
Plate Type	96-well plate (U, V or flat bottom plate)
Display	LCD
Wavelength Range	400-750nm
Filter Wavelength	405, 450, 492, 630nm
Wavelength Accuracy	<2nm
Wavelength Precision	±0.03A
Wavelength Resolution	0.001 (OD)Abs
Wavelength Linearity	<2%
Wavelength Repeatability	<0.5% at 2.0 OD
Wavelength Stability	<0.005Abs/10min
Spectral Bandwidth	8nm±2nm
Reading Speed	6s single wavelength, 10s double wavelength
Reading Range	0.001-3.500 Abs
Measurement System	8 Channel Optical System
Measurement Range	0.001-2.500 Abs
Measurement Speed	6-10 sec for 96 well plate
Photometric Range	0.000-3.500Abs
Photometric Accuracy	<1% or ± 0.001Abs
Photometric Repeatability	<1%
Temp. Range	0-55°C
Humidity Range	≤85%
Shaking	Linear (slow, medium and high mode)
Light Source	Quartz Halogen Lamp (12V, 20W)
Light Source Life	Less than 2000 h
Detection Method	Absorbance
Detector	Photodetector/CMOS
Detection Modes	Comprehensive Qualitative and Quantitative Data-Evaluation with Cut-Offs, Curve-Fits and Transformation Formulas
Programs	42 user programs
Overall Dimension	318x286x168 mm
Power	90W
Power Supply	240 V, 60 Hz
Weight (Net/Gross)	7/9 kg