



MICROPLATE READER

MICROPLATE READER LMPR-100 SERIES

Labocon Microplate Reader LMPR-100 Series 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 basic tool in drug discovery and life science research, bioassay testing and quality control pharmaceutical processes.

Features

- ▶ **For Model LMPR-101:**
 - ▶ 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
 - ▶ Can store up to 1200 results for 96 well plate
 - ▶ Optional Accessories:
 - ▶ Touchscreen panel
 - ▶ Built-in printer
 - ▶ External printer
 - ▶ Software
- ▶ **For Model LMPR-102:**
 - ▶ 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
- ▶ Optional Accessories:
 - ▶ Graphical thermal printer
 - ▶ External printer
 - ▶ Data acquisition and analysis software

Applications

Labocon Microplate Reader is a basic tool in drug discovery and life science research, bioassay testing and quality control in pharmaceutical processes.



LMPR-100

Specifications

Model	LMPR-101	LMPR-102
Plate Type	96-well plate	96-well plate (U, V or flat bottom plate)
Wavelength Range	400-750 nm	
Filter Wavelength	405, 450, 492, 630nm	
Wavelength Accuracy	<2nm	
Wavelength Precision	±0.03A	
Wavelength Resolution	0.001 (OD) Abs	
Wavelength Linearity	R≥0.995	<2%
Wavelength Repeatability	<0.5% at 2.0 OD	
Wavelength Stability	<0.005Abs/10min	
Spectral Bandwidth	8nm ± 2nm	
Reading Speed	5s single wavelength	6s single wavelength, 10s double wavelength
Reading Range	0.000-4.000 Abs	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	10°C-35°C	0-55°C
Humidity Range	15%-85%	≤85%
Shaking	Linear (slow, medium and high mode)	
Display	7" TFT LCD Display	LCD
Light Source	Monochromatic LED	Quartz Halogen Lamp (12 V, 20 W)
Light Source Life	More than 100000 h	Less than 2000 h
Detection Method	Absorbance	
Detector	Silicon Photodiode	Photodetector/CMOS
Detection Modes	Comprehensive Qualitative and Quantitative Data-Evaluation with Cut-Offs, Curve-Fits and Transformation Formulas	
Programs	55 user programs	42 user programs
Overall Dimension	400x310x169 mm	318x286x168 mm
Power	80 W	90 W
Power Supply	240 V, 60 Hz	
Weight (Net/Gross)	6/10 kg	7/9 kg
Catalog No.	9261101403	9261102403

MICROPLATE READER LMPR-UV-201

Labocon Microplate Reader LMPR-UV-201 is equipped with 96-well plate multimode and bichromatic multi-channel optical system having UV wavelength of 340nm and user friendly software for simple operation. It offers high throughput with three test methods, fast reading speed of 5 seconds and automatic alarm system.

Features

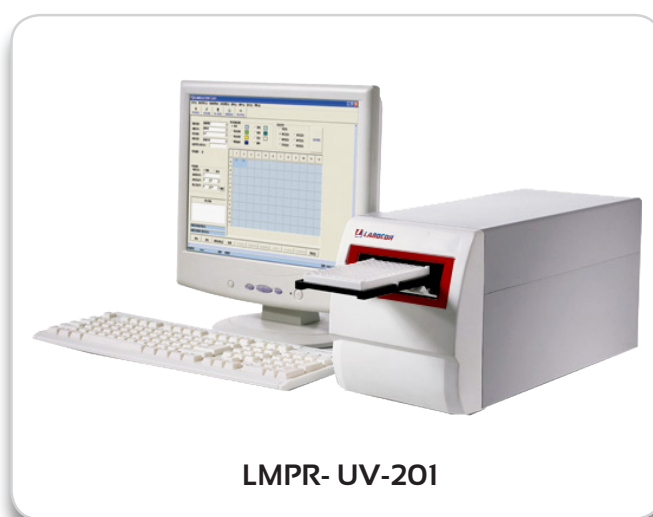
- ▶ 8-channel optical measuring system
- ▶ 340nm UV wavelength
- ▶ Single wavelength detection
- ▶ 3 more filter wavelengths (Optional)
- ▶ Three test methods: End Point, Fixed Time and Kinetic
- ▶ Adjustable temperature control, incubation time and temperature
- ▶ Adjustable shaking time and speed
- ▶ PC controlled system, Windows XP
- ▶ Powerful QC programs including Westguard Multi-rule and Instant method, automatic alarm
- ▶ Different detection modes like ABS, cut-offs, curve-fits, linear, log, exponential, power and 4PL regression
- ▶ Auto-check when power on with lamp saving and plate shaking
- ▶ Random positive and negative control setting
- ▶ Multi-assay enables up to 12 different assays on one plate
- ▶ Can store more than 500 programs and minimum 100,000 results
- ▶ Printer compatible with Windows XP
- ▶ RS-232 interface

Applications

Labocon Microplate Reader is a basic tool in drug discovery and life science research, bioassay testing and quality control in pharmaceutical processes.

Specifications

Model	LMPR-UV-201
Plate Type	96-well plate
Filter Wavelength	340, 405, 450, 492, 630nm
Wavelength Accuracy	±1nm
Resolution	0.001Abs (displayed); 0.0001Abs (calculated)
Bandwidth	<8nm
Reading Speed	5s single wavelength
Optical System	8 Channel Optical System
Photometric Range	0.000-4.000 Abs
Temp. Range	Ambient 4°C-45°C adjustable
Light Source	Halogen Lamp
Overall Dimension (l x w x h)	186x440x220 mm
Power Supply	AC 110-240V ± 10%, 50-60 ±1Hz
Weight	9 kg
Catalog No.	9261103444



LMPR- UV-201



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