



# **MICROPLATE READER**

## **LD-LMPR-A14**

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Microplate Reader LD- LMPR-A14 is a bench top unit, used in ultraviolet-visible spectrophotometer measurement of 96 well microplate in 10 seconds and 384 well microplate in 30 seconds, it offers linear plate shaking motion. Designed with flashing xenon lamp source, long life and stable illumination, the wavelength ranges from 200 nm to 1000 nm and offers 0 to 4.0 OD measurement range. It offers free wavelength selection, so being an ideal tool for virtually any photometric research application, such as DNA, RNA, protein analysis and more it offers exceptional usability through its intuitive, powerful PC ReaderIt-II Software. It has been designed to deliver high performance and high quality results. The special light absorption detection board can be used for calibration of the equipment also used in powerful data analysis software, microplate analysis and workstation.

## FEATURES

- ★ Designed with temperature control incubation system
- ★ Microplate ultraviolet-visible spectrophotometer
- ★ CCD real-time spectral scanning mode and real-time output of UV-visible spectrum
- ★ It measures 96 and 384 well microplates
- ★ Designed with 10 inch touch screen and offers stand-alone operation, it is easy to use
- ★ Built-in grating monochromator
- ★ Wavelength ranges from 200 to 1000 nm
- ★ Microplate oscillating mixing function
- ★ Suitable for cell proliferation and cytotoxicity test
- ★ Designed with flashing xenon lamp source, long life and stable illumination
- ★ USB data interface to facilitate instrument control and data transmission
- ★ It detects the absorbance, concentration and purity of nucleic acids and proteins
- ★ Instrument parameter setting and instrument self-test function is highly automated
- ★ Powerful PC software (Reader It -II), to offer analysis review, validation of data
- ★ It is easy access to data via USB interface and WIFI

## APPLICATIONS

Microplate Reader is used in life science research work, especially DNA/RNA analysis, cell proliferation and cytotoxicity test, bacterial concentration analysis, pharmaceutical plant analysis, protease and kinase, phospholipase, NADH, GST activity test and used in end point method ELISA/EIA, with a variety of fitting curves for analysis.

## SPECIFICATION

<b>Model</b>	<b>LD-LMPR-A14</b>
Wavelength range	200 nm to 1000 nm with 1 nm steps
Wavelength accuracy	±2 nm
Wavelength selection	Monochromator
Half-bandwidth of filter	< 2.5 nm
Repetition	±0.2 nm
Measurement range	0 to 4.0 OD
Detector	Two silicon photoelectric detector, one for measurement, another for reference
Linearity at450nm	0 to 2.5 Abs, ±2% (96 well plates)
Accuracyat450nm	1.0% + 0.005 Abs (0 - 2.0 Abs), 2.0 % [2.0 to 2.5 Abs)
Precision at450nm	CV < 0.5% accurate model, CV < 1.0% fast mode
Test speed 01	10 seconds with 96-well plate (fast mode), 30 seconds with 96-well plate (accurate model)
Plate shaking	Linear, three options for speed
Test speed 02	15 seconds with 96-well plate (single wavelength), 30 seconds with 96-well plate (double wavelength)
Ambient Temperature	+5°C to 45°C
Software	Integrated software or PC control software
Light source	Xenon flash lamp
Display	10 inch touch screen
Analysis software	Reader It-II
User interface	Touch screen, android system, 10 inch touch screen, external keyboard mouse
Storage	16G memory, more than 10,000 test records can be stored
Ports	3 USB ports, for PC, printer and USB-disk
Automated systems	Temporarily unable compatible with automated systems
Dimension	300 × 500 × 290 mm
Power supply	DC24V 6.5A
Weight	15 kg