



## MICROPLATE READER

## MICROPLATE READER

Microplate Reader is a laboratory instrument that is used to measure chemical, biological or physical reactions, properties and analytes within the well of a microplate. Flexibility and reliability makes this product an unique choice. Used in Life Science, Drug Discovery, Research, Laboratory, Medical, Assay Development. Also known as Laboratory Microplate Reader.

### BMRW-101 MICROPLATE READER



It is an eight-channel reader with the most sophisticated technology, high quality, high reliability and easy to operate.

8 channels measuring system.

Analysis Mode: Cut-off, single and multi-standard, O.D., bichromatic, dynamic reading.

Optical filter 405/450/492/630nm

100 programs storage.

Touch screen display.

Built-in thermal printer.

## SPECIFICATIONS

Model	BMRW-101
Measuring System	Optical system with 8 channels
Analysis Mode	Cut-off, single and multi-standard, O.D., bichromatic, dynamic reading
Linear Range	0.001-3.500 Abs
Photometric Accuracy	$\pm 1\%$ or $\pm 0.001$ Abs
Repeatability	$< 1.0\%$
Stability	$< 0.005$ Abs/hr
Linearity	$< \pm 1.0\%$
Sensitivity	$\leq \pm 0.001A$
Channels Discrepancy	$\leq \pm 0.002A$
Optical Filters	405/450/492/630 nm other filters available on request
Reading	Automatic focusing function makes the results more precise
Tray Shaking	Yes
Storage	100 programs
Display	Touch screen
Interface	RS-232 and USB port
Printer	Built-in thermal printer (external printer are available on request)
Power Supply	AC 220V 50 Hz or 110V 60 Hz
Dimension	46Lx33Wx18H cm
Weight	7.5 kg

# BMRW-102 MICROPLATE READER



Bichromatic, 8-channel Optical system.  
Large storage capacity up to 200 test protocols and 100,000 results.  
LED light source with lifespan over 10,000 hours.  
3 shaking modes with variable time.  
Windows operation system, self-check, malfunction alarm.  
7 inch touch TFT LCD screen, test results simultaneous displayed in screen.

## SPECIFICATIONS

Model	BMRW-102
Repeatability	<1%
Stability	<0.005 Abs/10 min
Linearity	$R \geq 0.995$
Display	7 inch TFT LCD, 800x480 Pixels
Interface	RS~232, 4 USB ports, SD Card
Printer	Built-in printer, external printer
Power Supply	AC 100~240V, 50/60 Hz
Dimension	400Lx310Wx169H mm
Weight	6 kg
Readout Range	0.000~3.500 Abs
Plate Type	96-well plate
Light Source	Monochromatic LED
Reading Speed	5s with single wavelength for whole plate
Input	Mouse, membrane keyboard, touch screen
Working conditions	
Humidity	15%~85%
Temperature	10°C~35°C
Measure System	8~channel optical system
Band Width and Accuracy	8 nm $\pm$ 2 nm
Shaking	3 shaking modes with variable time
Wavelength	405, 450, 492, 630nm, two more optional

# BMRW-201 MICROPLATE READER



Using 10-inch high-resolution LCD capacitive touch screen, no need keyboard, simple and intuitive operation, easy to use

Visual layout, humanized design, fast and intuitive standard blank, sample, negative and positive control and quality control, support multi-value control, convenient and practical

13-channel high-precision optical fiber measurement system, accurate and automatic positioning of the center of the enzyme label hole

With a reference optical path system, the detection results are more stable and accurate

8-position filter wheel with 4 filters as standard, other filters are optional

The built-in software can realize the detection of kinetics, standard curve, qualitative and quality control; the software includes program generation and storage, as well as detection data storage functions, with large storage capacity; powerful curve fitting, kinetic analysis and reporting functions

The energy-saving design of the light source maximizes the life of the light source

Has the function of self-checking and diagnosing the optical path, mechanical movement, etc

With vibration plate function, the vibration plate time and speed are adjustable

Single-wavelength, dual-wavelength detection, fast detection speed

Can connect the U disk to output data, or connect to the printer to print data directly

Built-in incubation function, the incubation temperature range is room temperature +4°C ~ 65°C

## SPECIFICATIONS

Model	BMRW-201
Display	10 inch high resolution capacitive touch screen
Interface	Connect the Printer and U Disk
Linear range	$R^2 \geq 0.995$ [0.000~3.000 Abs]
Dimension	W.300 × D.430 × H.232 mm
Weight	10 Kg
Temp. accuracy @ 37 °C	± 0.5 °C
Temp. uniformity @ 37 °C	± 0.5 °C
Light Source	6 V 10 W halogen lamp
Filter	8-bit filter wheel, 4 standard filters: 405 nm, 450 nm, 492 nm, 630 nm, other
Incubation Temp. range	R. T. +4 °C ~ 65 °C
Resolution	0.001 Abs
Wavelength accuracy Absorbance repeatability (450nm)	$\leq \pm 2$ nm [0 ~ 3 Abs] CV $\leq 0.3$ % [3 ~ 4 Abs] CV $\leq 1$ %
Absorbance accuracy (450nm)	[0.000 ~ 2.000 Abs] $\leq \pm 0.005$ Abs; [2.000 ~ 3.000 Abs] $\leq \pm 1$ %; [3.000 ~ 4.000 Abs] $\leq \pm 1.5$ %
Band Width and Accuracy	8 ~ 10 nm
Shaking	Yes, three options for speed
Wavelength	340 ~ 750 nm
Measuring speed	5 s, 96 orifice plate, fast measurement mode Single wavelength < 7 s / 96 holes, dual wavelength < 15 s / 96 holes, accurate mode
Sensitivity/Detector	$\geq 0.01$ Abs/photodiode
Number of program storage	5000 pcs (support U disk mass storage)

Absorbance range	0 ~ 4.000 Abs
Fuse	250 V, 2 A $\Phi$ 5 x 20
Voltage	100-240 VAC 2.3 A 50/60 Hz
Power Supply	200 W



**Biolab Scientific Ltd.**

3660 Midland Avenue, Suite 300, Toronto, Ontario M1V 0B8, Canada

Email: [info@biolabscientific.com](mailto:info@biolabscientific.com) | Website: [www.biolabscientific.com](http://www.biolabscientific.com)