



MICROPLATE READER

MICROPLATE READER BHN1B1

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.



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 simultaneously displayed in screen.

SPECIFICATIONS

Model	BHN1B1
Old Model	BMRW-102
Repeatability	<1%
Stability	<0.005 Abs/10 min
Linearity	R ² ≥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
Humidity	15%~85%
Temperature	10°C~35°C
Measure System	8~channel optical system
Band Width and Accuracy	8 nm ± 2 nm
Shaking	3 shaking modes with variable time
Wavelength	405, 450, 492, 630nm, two more optional
Alt Name	Microplate Reader

APPLICATIONS

Drug Discovery, Research, Laboratory, Medical, Assay Development, Life Science.

MICROPLATE READER BFJ1D1 BFJ1D2

MICROPLATE READER



1. 10.1-inch touch screen, can operate, store, print without external computers.
2. 8-channel optical filter measurement system, you can manually replace the filter.
3. You can measure the end point method, dynamics, suppression rate, etc.
4. Panel visualization operation, data displayed completely.
5. Up to 100 preset test items, greatly improving the testing efficiency of commonly used items.
6. Using the principle of optoelectronics to perform enzyme immunization measurement of samples.
7. Easy Operation
8. Convenient and Efficient Setting Interface

SPECIFICATIONS

Model	BFJ1D1	BFJ1D2
Dimension	300x470x200mm	
Weight	13kg	
Light Source	6V10W long life halogen lamp	
Wavelength	340-750nm	400-750nm
Filter	Four filters of 405, 450, 492 and 630nm are equipped as standard, and up to eight filters can be loaded	
Filter Width	6-8nm	
Absorbent	0.000-4.000 OD	
Resolution	0.001 OD	
Linearity	The correlation coefficient is greater than 0.999(0, 2.0), and the correlation coefficient is greater than 0.99(2.0, 4.0)	
Wavelength Error	±3nm	
Wavelength Repetitiveness	±1.5nm	
Repetitiveness	≤0.3%(0, 3.0), ≤2%(3.0, 4.0)	
Stability	≤0.3%(0, 3.0), ≤2%(3.0, 4.0)	
Accuracy	±0.005 OD(0, 2.0), ≤±1%(2.0, 3.0), ≤±1.5%(3.0, 4.0)	
Sensitivity	Sensitivity≥0.010 OD	
Channel Difference	<0.01 OD (1.0 OD Standard filter)	
Measuring Speed	Single wavelength 6 seconds/96 wells, double wavelength 10 seconds/96 wells	
Vibrating Plate	3 speeds (high, medium, low)	
Temperature Range	RT+5°C-85°C	/
Control Method	10.1 -inch touch screen, embedded software	
Data Export	excel, txt, pdf, xls	
Print	Report can be printed (optional USB thermal printer)	
Communication	A type USBx2, B type USB, Ethernet port, Serial Port	
Alt Name	Microplate Reader	

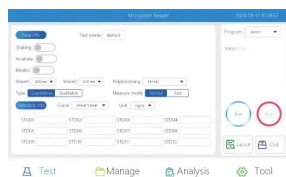
FEATURES

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Setting Interface



Test Setting Interface



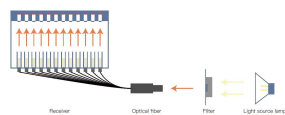
Data Analysis Interface

MICROPLATE READER BFA1D1

MICROPLATE READER

Microplate Reader is a professional instrument for reading and analyzing the results of enzyme-linked immunosorbent assay (EAL). The enzyme-linked immunosorbent reaction is carried out by an enzyme-catalyzed chromogenic substrate coupled to an antigen or antibody. The reaction result is displayed in color. The concentration of the antibody or antigen to be tested in the sample can be judged by the absorbance value, absorbance, negative and positive, etc.

Principle



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.

SPECIFICATIONS

Model	BFA1D1
Old Model	BMRW-201
Display	10 inch high resolution capacitive touch screen
Light source	6V 10W halogen lamp
Wavelength range	340~750nm
Filter bandwidth	8~10 nm
Plate shaking	Yes, three options for speed
Filter	8-bit filter wheel, 4 standard filters: 405nm, 450nm, 492nm, 630nm, other filters are optional
Absorbance range	0~4.000Abs
Linear range (450)	$R^2 \geq 0.995$ [0.000~3.000Abs]
Incubation Temp. range	R.T. +4°C~65°C
Resolution	0.001Abs
Wavelength accuracy	$\leq \pm 2\text{nm}$
Absorbance repeatability (450nm)	[0~3Abs] CV $\leq$ 0.3% [3~4Abs] CV $\leq$ 1%
Absorbance accuracy (450nm)	[0.000~2.000Abs] $\leq \pm 0.005\text{Abs}$; [2.000~3.000Abs] $\leq \pm 1\%$; [3.000~4.000Abs] $\leq \pm 1.5\%$
Measuring speed	5s, 96 orifice plate, fast measurement mode; Single wavelength < 7s/96 holes, dual wavelength < 15s/96 holes, accurate mode
Sensitivity/Detector	$\geq 0.01\text{Abs}/\text{photodiode}$
Number of program storage	5000 pcs (support U disk mass storage)
Interface USB	Connect the Printer and U Disk
Temp. accuracy @ 37 °C	$\pm 0.5^\circ\text{C}$
Temp. uniformity @ 37 °C	$\pm 0.5^\circ\text{C}$
Voltage	100~240VAC 2.3A 50/60Hz
Power	200W
Fuse	250V, 2A Φ 5x20
Dimensions	W.300 x D.430 x H.232mm
Weight	10kgs
Alt Name	Microplate Reader

FEATURES

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

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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.



10 inch high-resolution LCD touch screen



With vibrating plate function



USB flash disk or printer can be connected



8-bit filter wheel

MICROPLATE READER BFJ1C1

FULL-WAVELENGTH MICROPLATE READER

This model is a full-wavelength Microplate reader with a detection wavelength of 200-1000nm. The instrument can complete the measurement quickly and accurately, with a measurement speed of: fast <8 seconds, accurate <28 seconds. The instrument also comes standard with a linear shock plate function. The type incubation temperature with the incubator can be as high as 85°C. Visualized workflow, simple data analysis and export function can maximize your experience.

This product can be widely used in the fields of research, agriculture, animal husbandry, feed companies, food companies and other testing.



1. Wide wavelength range 200-1000nm, 1nm step grating monochromator, precise control of detection wavelength.
2. You can measure the end point method, dynamics, suppression rate, etc.
3. Supports 96-well and 384-well plates, which can effectively save time and sample usage.
4. It has cuvette and fluorometer functions to adapt to different experimental scenarios.
5. Combining AI with scientific research, it has many special functions such as voice control, voice interaction, code scanning, face recognition, etc., bringing a new experience to users.
6. The high-resolution 10.1-inch capacitive touch screen is easy and smooth to operate, and the screen angle can be freely adjusted by voice control or buttons.

SPECIFICATIONS

Model	BFJ1C1
Plate	96-well and 384-well
Dimension	318x450x265 (LxWxH)
Weight	22kg
Light Source (Optical)	Xenon lamp, flashes up to 10 ⁸
Wavelength	200-1000nm
Counting Range	0-4 OD
Optical System	Grating monochromator (1nm step)
Detection System	PD
Accuracy @450	≤2nm
Repeatability	≤0.2nm
Linear @450	R ² >0.995(0.3-0.1)
Accuracy @450 (Abs)	± (0.005Abs), (0 - 2.0Abs) ± 0.3%, (2.0 - 3.0Abs) ± 2.0%, (3.0 - 4.0Abs)
Repeatability @450	CV<0.5%
Control Range	RT+5°C-85°C
Temp. Accuracy	±0.5°C@37°C
Temp. Uniformity	±0.5°C@37°C
Light Source (Cuvette)	Xenon lamp, flashes up to 10 ⁸
Absorbance Range	0~4.000Abs
Absorbance Stability	(0.3) ≤0.5%, (3.4) ≤1.5%
Absorbance Repeatability	(0.3) ≤0.5%, (3.4) ≤1.5%
Absorbance Accuracy	(0.2) 0.005A, (2.3) ≤1%, (3.4) ≤2%
Detection Channel	2 channel
Repeatability (Fluoro)	<1.5%
Stability	<1.5%
Linearity	R ² ≥0.996
Light Source (Fluoro)	Single Color LED
Excitation Wavelength	470nm/624nm
Emission Wavelength	525nm/682nm
Control Method	10.1" touch screen, embedded software
Vibration Plate	3 speeds (high, medium, low)
Measuring Speed	Fast <8 seconds, accurate <28 seconds
Communication	A type USB x 2, B type USB, Ethernet port
Storage Capacity	16G, >20,000 data
Print	Thermal printing (optional)
Voice Function	Yes
Scanning Code Function	Yes
Screen Angle	Adjustable from 0° to 90°
Facial Recognition	Yes
Power Supply	DC15V, 17A, 255W
Alt Name	Full-wavelength Microplate Reader

FEATURES

1. Wide wavelength range 200-1000nm, 1nm step grating monochromator, precise control of detection wavelength.
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3. Supports 96-well and 384-well plates, which can effectively save time and sample usage.
4. It has cuvette and fluorometer functions to adapt to different experimental scenarios.
5. Combining AI with scientific research, it has many special functions such as voice control, voice interaction, code scanning, face recognition, etc., bringing a new experience to users.
6. The high-resolution 10.1-inch capacitive touch screen is easy and smooth to operate, and the screen angle can be freely adjusted by voice control or buttons.
7. Simple and easy to operate
8. Intelligent voice (computing)



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