Microplate Reader

MMR-800+

The Microplate Reader comes with high-quality photometer and combined with a powerful built-in software provides accurate and reliable results. A big 10-inch color touch screen with intuitive user interface enables easy settings and analysis. The Microplate reader is ideal for qualitative and quantitative ELISA applications.

Features

- Wide wavelength ranging from 330nm to 900nm
- Accurate: ±1% (0-3 Abs) at 405nm; ±2% (3-4 Abs) at 405nm
- 8 filters wheel with four preset filters
- Fast reading of both 96 well and 384 well microplates
- Shaking function and incubation (RT+4°C to 55°C) for temperature critical assays
- 10-inch colorful touch screen with intuitive user interface
- High quality photodetector from Hamamastu
- USB port for easy data transfer



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Accuracy: high-end optical system to ensure accuracy

The device offers a wide detection range from 330-900 mm wavelength. The detection results of each band are accurate and stable and can be used in a variety of applications.

Self-diagnostics:

The device runs diagnostics on start-up, and the built-in self-diagnostic program detects the position of the microplate, and the stability of optical components.

Large colorful LCD touch screen for ease of use

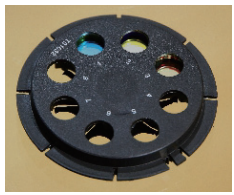
10-inch colorful capacitive touch screen enables easy settings and analysis. The User Interface is designed to be intuitive and user friendly and features large Icons. Up to three shortcuts can be setup for customized protocols, enabling quick launch of the protocols

Functions include:

- Main Menu: Protocol, Plate Format, Measurement, Shaking, Incubation
- Results: Raw data, Calculated Results, Calibration Data, Quality Control, Results List
- Settings: Filters, Printer.

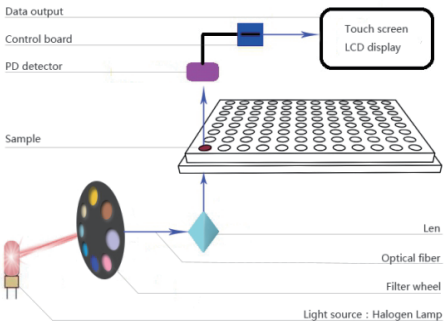
Application

- Immunoassays (ELISA)
- protein assays:BCA, Lowry, Bradford
- Endotoxins
- cytotoxicity and proliferation assays
- Enzyme assays
- Growth curves



8 filters wheel

Working principle (X Y axis scan)





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Specifications	
Model	MMR-800+
Plate Type	96-well and 384-well plates (max height:15.3mm)
Light Source	Quartz-halogen lamp
Detector Type	Photo detector
Wavelength Selection	Filters (330-900nm)
Filters wheel	8 filters wheel; Filters installed: 405nm, 450nm, 492nm and 630nm. Additional filters can be ordered separately.
Optional filters	340/375/414/520/530/540/550 560/570/595/620/650/690/740/750/820
Half-bandwidth of filters	3-9nm
Linearity	0-4 Abs at 405nm (0-3Abs±2% in rapid measure mode; 0-4Abs ±2% in common measure mode)
Read-out Range	0 to 6 Abs
Resolution	0.001Abs
Accuracy	±1% (0-3 Abs) at 405nm; ±2%(3-4 Abs) at 405nm
Precision	CV ≤ 0.2% (0-3 Abs) ; CV≤ 1% (3-4Abs) at 405nm
Shaking	Linear shaking with three modes: slow, medium, fast
Measurement Speed	8 seconds, 96-well plate, fast mode 12 seconds, 96-well plate, normal mode 16 seconds, 384-well plate, fast mode 24 seconds, 384-well plate, normal mode
Incubator temperature	Temperature range from ambient + 4°C up to 55°C
Display	10-inch colorful touch screen
Interface	USB port for data transfer
Printer	USB / WiFi
PC software	Configured for standard
Power supply	100-240V (50/60HZ)
Size (LxWxH)	400×290×220mm