SCICHROLAB

Microplate Reader

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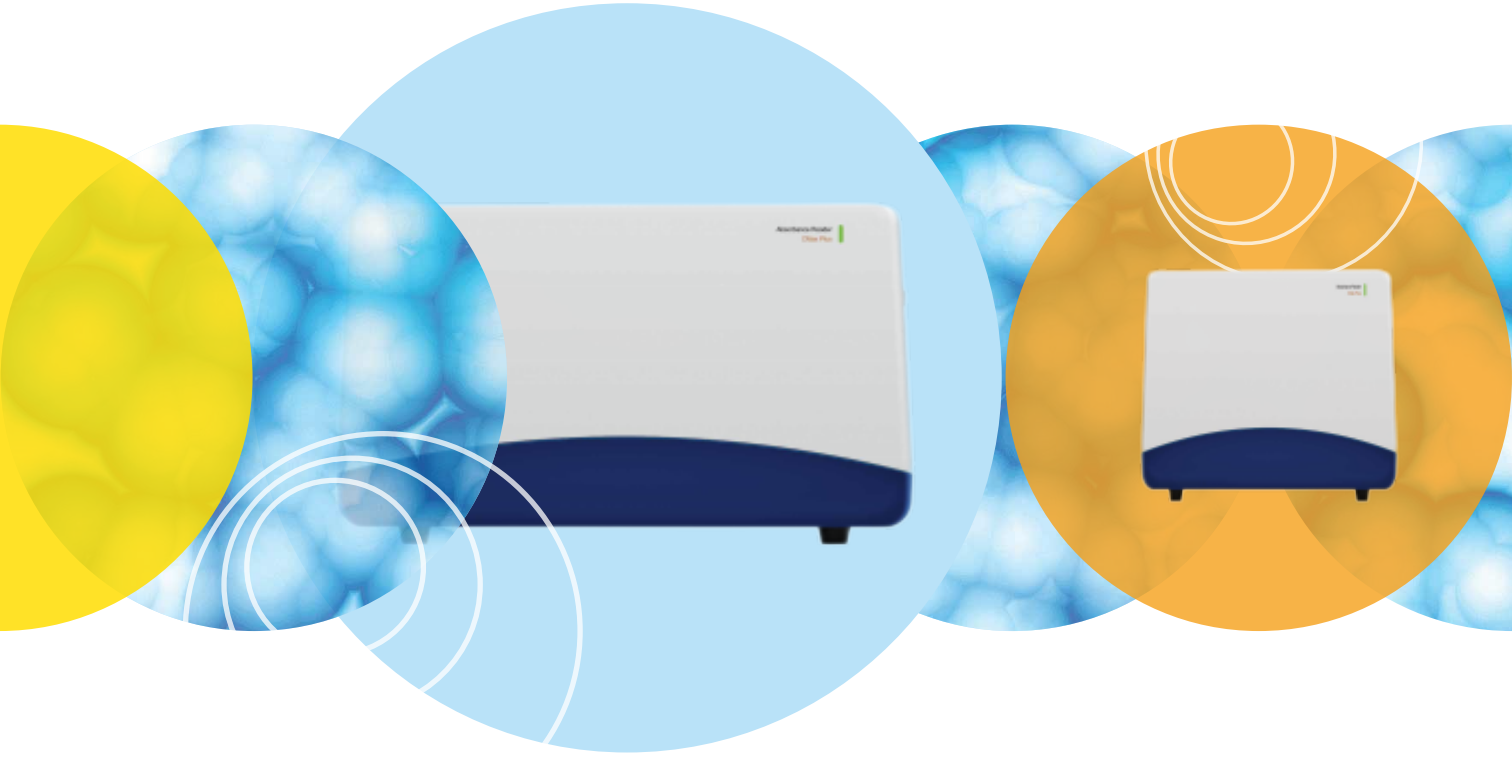
CMax Plus Microplate Reader

Filter-based Absorptive Photometric Monofunctional Microplate Reader



Purpose and Features:

The CMax Plus microplate reader, produced by Scichro, is a versatile and powerful instrument specifically designed for research laboratories. It features endpoint and kinetic detection modes, comes standard with 6 filter modes, and is suitable for protein quantification, cell viability, pesticide residue detection, and various ELISA assays. The CMax Plus is compatible with both flat-bottom and round-bottom 96-well plates. An automatic light source calibration function before detection ensures the accuracy of experimental results. The CMax Pro software controls the instrument and performs data analysis. This powerful processing software allows for easy setup of various parameters, including plate layout, linear, logarithmic, and four-parameter curve fitting, qualitative classification, and includes a kinetic database for convenient data retrieval. Data can be directly imported into Excel, and users can customize detection templates to establish personalized detection parameters for easy recall.

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Technical Specifications

Project	CMax Plus Performance Technical Specifications
Light source	Halogen Lamp (Automatic Life Detection Feature)
Wavelength range	400-750 nm
Compatible Board Type	96-well plate
OD Resolution	⩽ 0.001
OD Value Detection Range	Readout: 0-4 OD; Inspection: 0-3.5 OD
Black and White Disc	Min OD > 3.9
OD Accuracy	0.000-2.000 OD ⩽ ± (1.0% + 0.010 OD); 2.000-3.000 OD ⩽ ± (2.0% + 0.010 OD)
OD linearity	0.000 OD-2.500 OD <1%
OD accuracy	0.000 OD-2.500 OD <0.5% 2.500 OD-4.000 OD <1.5%
Channel differences	< 1.5%, 1 OD
Detection channel	8 channels
Testing mode	Endpoint Method and Kinetic Method
Oscillation	Linear (High, Medium, Low)
Reading speed	**normal mode** Single Wavelength: < 16 s Dual Wavelength: < 30 s **quick mode** Single Wavelength: < 8 s Dual Wavelength: < 15 s
Filter configuration	Standard Configuration: 405 nm、450 nm、492 nm、630 nm、562 nm、595 nm Optional 8 pieces
Data communication methods	RS-232 和 USB
Software	CMax Pro Compatible systems: Windows XP, 7, 8, 10 Curve Fitting: Linear, Semi-log, Log-log, 4-PL

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MultiWash–C Microplate Washer

Fully automated plate washer supporting 96-well microplates

The MultiWash − C is a compact, fully automated microplate washer manufactured by Molecular Devices in the United States. The device features a large color touchscreen with a user-friendly graphical interface, making it easy to operate and quickly set up washing programs. Its microplate parameter editing function supports effective cleaning for various types of 96-well plates (flat-bottom, U-bottom, and V-bottom plates made of polystyrene or polypropylene), providing optimized cleaning results for ELISA experiments. The fully automated MultiWash − C microplate washer significantly reduces the workload of researchers during ELISA workflows, ensuring high accuracy and consistency while improving efficiency. This washer can be used in conjunction with Molecular Devices' different types of microplate readers, offering a complete solution for ELISA testing. Additionally, the washer comes equipped with two 4-liter wash solution bottles and one 10-liter waste bottle, both of which are fitted with liquid level sensors as standard.

Advantage

- Utilizing a large-sized color touchscreen for simple and easy operation.
- No external computer or external pump required.
- Level detection function, providing real-time feedback on liquid level status.
- Store 100 washing programs, each with up to 99 steps.
- Built-in automatic maintenance feature, capable of automatically flushing the piping

Easy to operate

No external computer is required; the cleaning program can be set through a graphical menu bar on a large color touchscreen. The user interface is intuitive, allowing operators to easily create, edit, delete, copy, and rename cleaning programs. Additionally, multiple cleaning programs can be set according to different experimental needs, with up to 100 programs, each expandable to 99 cleaning steps.

Highly versatile functionality

The MultiWash − C microplate washer offers a choice of 8 or 12 wash heads. By adjusting parameters such as the volume and speed of liquid addition, soak time of the wash solution, and oscillation speed, the cleaning performance can be further optimized.

Safe and Efficient

The washing process enhances cleaning efficiency by cross-suctioning liquid through each hole, effectively reducing the volume of residual liquid in each pore. The instrument requires no addi tional vacuum or pressure devices, occupies minimal space, and features a built-in pump design that provides a quiet operating environment.

Technical Specification	
Support for the type of perforated plate.	96 Well Microplate (Flat Bottom, U-Shaped, and V-Shaped Bottom)
Liquid Volume	Volume required: 50 to 3000 µL, in 50 µL increments.
Accuracy	@300 uL ⩽ 3%
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Cleaning speed	12-channel hair washing, < 90 seconds (3 cycles, 300 µL/well) 8-channel washing, < 125 seconds (3 cycles, 300 µL/well)
Residue	⩽ 1 µL/well
Oscillation Options	Adjustable frequency with three settings.
Speed Adjustment	Three adjustable speeds for liquid injection, aspiration, and cleaning processes.
Weight (including packaging)	13 kg
Instrument dimensions (W*H*D)	46 × 30 × 40 cm
Power Input	100 V ~ 240 V, 50 HZ ~ 60 HZ

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