

### **automatic microplate washer with 4.3-inch color LCD display**

Automatic microplate washer is a fully automatic cleaning equipment specially designed for 96-well microplates, which is widely used in life science, clinical testing and high throughput screening.

This automatic microplate washer is compact, easy to operate, compatible with a variety of microplate bottom types, flat bottom, U-type, V-type and C-type, can meet different experimental needs.

#### **Main Features of the Automatic Microplate Washer**

1. compatible with a variety of microplate types: support flat bottom, U bottom, V bottom and C bottom microplate cleaning, to meet diversified experimental needs.
2. low residual liquid design:  $\leq 1\mu\text{L}$  of residual liquid per well, reducing background signal interference and improving detection sensitivity.
3. microplate soaking and oscillation function: through the superposition of soaking and oscillation, effectively improve the washing efficiency and remove difficult to wash residues.



4. Multiple pipeline rinsing system: supports automatic pipeline rinsing and distilled water cleaning to prevent cross-contamination and ensure the quality of plate washing.
5. simple and intuitive operation interface: 4.3-inch color LCD touch screen, clear menu, easy and fast program settings.
6. Wash bottle scale line design: uniform volume scale, convenient for laboratory preparation and monitoring wash dosage.
7. quick replacement of the wash head: modular wash head design, adaptable to different types of microtiter plate, flexible response to diversified applications.
8. Intelligent pause and resume: support the cleaning program at any time to pause and continue, to facilitate the flexible operation of the laboratory staff.
9. rich program storage: built-in storage of 100 user-defined programs, convenient and quick call.

### **Advantages**

1. efficient cleaning to protect the experimental accuracy: low residual liquid volume and multiple washing technology to ensure that the signal background is low, the results are more accurate.
2. easy to operate, widely applicable: compatible with a variety of microplates, friendly interface, reduce the cost of operation training.

3. pipeline self-cleaning, prolonging the life of the equipment: built-in filter and automatic flushing function effectively prevent pipeline clogging and equipment damage.
4. safe and intelligent monitoring: liquid level sensor real-time monitoring of the state of the liquid and waste liquid, to prevent overflow and suction damage to the instrument.
5. convenient data transmission and upgrading: USB interface supports program transmission and software upgrading, realizing synchronous management among multiple devices.

### **Working Principle**

Automatic microplate washer uniformly sprays washing liquid into each well of the microplate through the multi-channel washing head, combined with the precise control of the suction system, to realize efficient cleaning. During the washing process, the instrument can perform soaking and oscillation operations to deepen the contact between the wash solution and the sample to enhance the removal ability. The piping system has a built-in strainer and flushing mechanism to ensure smooth flow of the wash solution and avoid clogging. Liquid level sensor detects the liquid level of the wash solution and the waste bottle in real time, and intelligently adjusts the operation status to ensure safety and stability. Through the integrated microprocessor control, users can preset diversified cleaning programs to meet the needs of different experimental processes.

automatic microplate washer with 4.3-inch color LCD display

<b>Model</b>	<b>MW10</b>
Residual Volume	$\leq 1\mu\text{L}$
Wash Head	1x8 or 1x12 wash head
Compatible Microplates	Flat-bottom, U-bottom, V-bottom, and C-bottom 96-well microplates
Washing Modes	Single-point, two-point, multi-point washing
Washing Volume	50 to 2000 $\mu\text{L}$ , incremented by 50 $\mu\text{L}$
Number of Wash Cycles	1 to 99 times
Wash Channels	3 channels
Wash Bottles	Three 2.5L wash bottles, one 2.5L waste bottle
Dispensing Accuracy	$\leq 2\%$ at 300 $\mu\text{L}$
Dispensing Precision	CV $\leq 1.5\%$ at 300 $\mu\text{L}$
Soaking and Shaking Time	Up to 99 minutes 00 seconds

automatic microplate washer with 4.3-inch color LCD display

<b>Model</b>	<b>MW10</b>
Data Connection	USB
Power Supply	110Vac, 240Vac, 50Hz, 60Hz
Weight	12kg