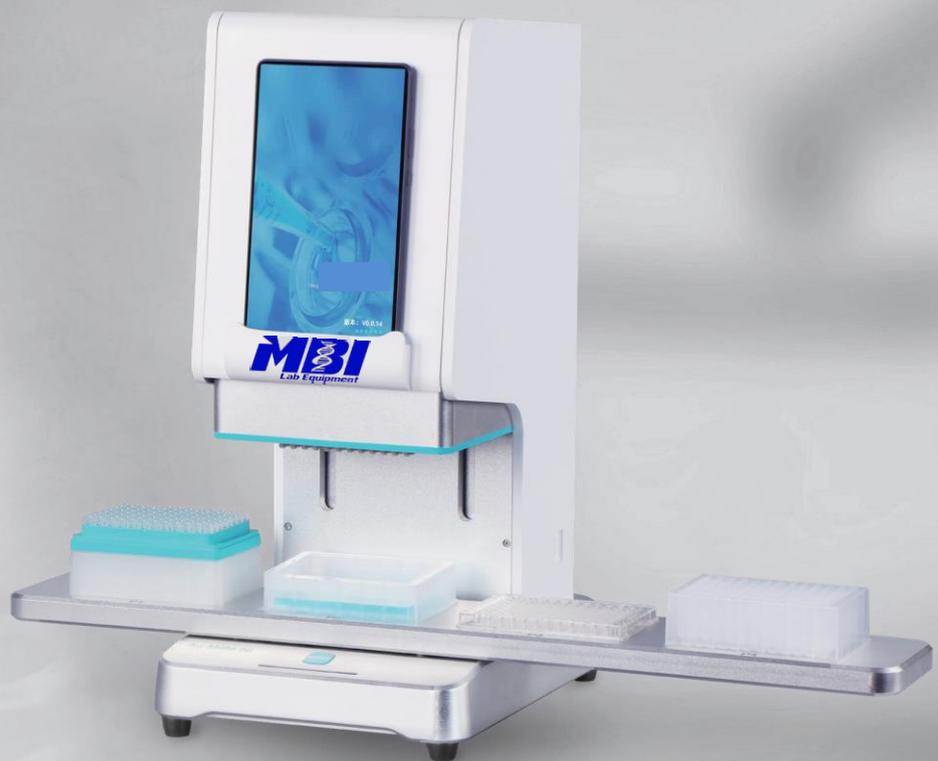




MBI SELMA 96 Series Liquid Handling Workstation



Simply, Easy and Efficient

MBI SELMA 96 Series Liquid Handling Workstation

For complex experimental procedures and precise pipetting operations, MBI Selma 96 series liquid handling workstation can bring you unlimited imagination. Through the external tablet computer, you can easily set up, save and operate the experimental process. Through the software control, the difference between aspirating and dispensing is truly eliminated, which improves the repeatability of pipetting.

The simple and easy-to-operate software system controls the process of loading and unloading pipetting heads, aspirating and dispensing liquid, so as to complete complex multi-step experiments. A large amount of repetitive work can be completed in a short time, thereby reducing most of the manual pipetting burden, and significantly improving the sample processing speed and repeatability.

From simple routine tasks to complex pipetting patterns: with the liquid handling workstation, you will discover a new level of pipetting efficiency.



1
Operation interface
Support Android Tablet PC, compatible with both wired and wireless

2
Workstation
2/3/4/6 plate positions can be customized

3
In basic mode:
For aspirating & dispensing
In advanced mode:
Emergency stop button

4
Compact design
Small size, suitable for working on a clean bench

5
Pipetting head replacement technology
Quick loading and unloading of pipetting heads without assistance

Feature

• Small Size and Saving Space

The MBI SELMA 96 with 2 plate positions has a compact structure. It only takes up a very little space on the laboratory table, and is easy to install in the clean bench, safety cabinet, and fume hood so that you can work in narrow spaces. Lots of repetitive work can be easily completed by switching the pipetting positions on the mobile table.



MBI SELMA

• Easy to Replace Pipetting Heads

Quick replacement of 3 types of pipetting heads without assistance



Push the mobile board up



Pull out the front skirt



Release the handles on both sides



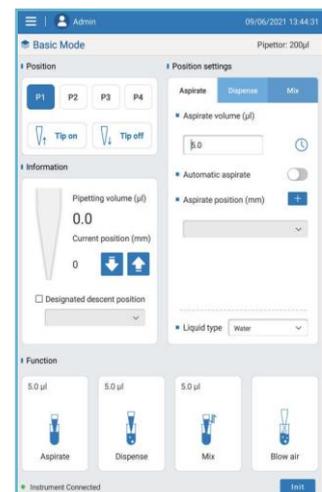
Pull out the pipetting head

• Multiple Plate Positions and High Automation

- You can choose 2/4 plate positions, or you can customize 3/6 plate positions, which can move automatically.
- The pipetting heads and plate positions can run automatically.

• High Flexibility of the Software Brings Multiple Pipetting Functions

- Integrate a variety of pipetting functions: aspirating, dispensing, blowing air, continuous blowing air, column-separated aspiration, stepper pipette, mixing, dilution, reverse aspiration
- Movement speed can be adjustable: liquid aspirating and dispensing speed can be adjustable, to meet the requirements of different liquid physical properties for pipetting speed



Graphical and powerful software pipetting functions

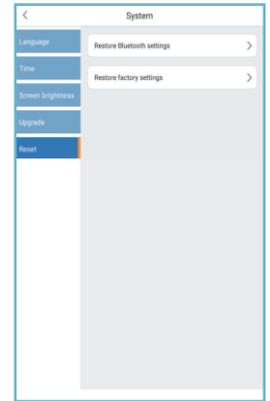
● Intuitive Program Setting Interface

Graphical software interface, which is easy to be understood and edited. Through the standard 8-inch Android tablet, users can experience free process editing. The instrument has a built-in user management system to facilitate the management of the experimental program.



● Support Wired Operation and Wireless Bluetooth Control

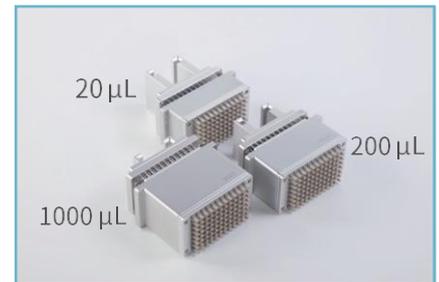
For some experimental environments with special requirements, the instrument can be placed in fume hoods, clean benches, etc. Using Bluetooth wireless control of the instrument, which not only reduces the interference to the experiment, but also ensures the safety of the experimenters.



● Replaceable Design of Multi-standard Pipetting Heads

A series of 20 μL and 200 μL pipetting heads can be freely replaceable for corresponding volume pipetting

B series adds a 1000 μL pipetting head on the basis of A, which is convenient for large-volume pipetting



MBI SELMA 96 Series Can Achieve the Following Functions

Application	1-20 μL	5-200 μL	100-1000 μL
PCR/qPCR	✓	✓	-
Cell lysis	-	✓	✓
Elisa	-	✓	✓
DNA sequencing	✓	✓	-
RNA transcription	✓	✓	✓
Protein crystallization	✓	✓	-
Liquid chip	✓	✓	-
Drug compound screening	✓	✓	-
Sequencing sample preparation	-	✓	✓
Sequencing sample purification	-	✓	✓
Routine enzyme experiment	✓	✓	✓
Cell culture	-	✓	✓
siRNA treatment of cell culture	✓	✓	-

● **Liquid Aspirating & Dispensing Function**

Mainly used for liquid transfer between liquid tank, micro-well plate and deep-well plate, sample addition of 96-well plate, sample transfer between 96-well plate and 384-well plate, etc. It is commonly used in processes such as PCR set-up, enzyme-linked immunoassay, cell culture, and purification and preparation of sequencing samples. In addition, the instrument can be equipped with pipetting and mixing, which helps to fully mix the samples and reagents and improve the uniformity of results.

● **Gradient Dilution**

It is mainly used for the equal-ratio dilution of liquids to realize the regular dilution of liquids between different rows or plates. Commonly used in Elisa reaction, sample dilution and other processes.

● **Stepper Pipette**

Mainly used in the continuous and equal pipetting of liquids, that is, the process of one aspirating and multiple dispensing. Commonly used in reagent pipetting, reaction solution addition, etc.

● **Program Linkage**

The open software design enables the instrument to realize complex liquid transfer methods between different plates in the form of program linkage.

Instrument Performance Parameter

Model	MBI SELMA 96A2	MBI SELMA 96A4	MBI SELMA 96B2	MBI SELMA 96B4
Plate number	2	4	2	4
Adapted pipetting head	Adapt to MBI-Pipet N20 & N200 heads		Adapt to MBI-Pipet N20, N200 & N1000 heads	
Software control mode	Basic mode	Basic & advanced mode	Basic mode	Basic & advanced mode
Channel	8/96 channel	8/96 channel	8/96 channel	8/96 channel
Technical principle	Air displacement			
Available well plate	SBS standard 24/96/384 deep and shallow well plates			
Consumables	Matching MBI Tip			
System	Standard 8-inch Android tablet, software adaptive to mainstream size tablet			
Communication method	CAN communication			
Power supply	100~240 V, 50~60 Hz			
Power	100 W	100 W	100 W	100 W
Wireless control	The instrument has a built-in Bluetooth module, which can be connected wirelessly			
N.W. (kg)	26	30	29	33
Size (WxDxH) mm	475×343×535	690×343×535	475×350×673	690×350×673

● The instrument is divided into A and B series: A series can be equipped with two kinds of pipetting heads (20 µL, 200 µL); B series can be equipped with three kinds of pipetting heads (20 µL, 200 µL, 1000 µL), so the B series instruments are higher than the A series.

Pipetting Head Specification

Model	MBI-Pipet N20	MBI-Pipet N200	MBI-Pipet N1000
Pipetting channel	96		
Pipetting range	1~20 µL	5~200 µL	100~1000 µL
Minimum increment	0.1 µL	0.2 µL	1 µL
Accuracy	≤±12 % at 1 µL ≤±12 % at 2 µL ≤±8 % at 10 µL ≤±1 % at 20 µL	≤±5 % at 5 µL ≤±2 % at 20 µL ≤±1 % at 100 µL ≤±1 % at 200 µL	≤±2 % at 100 µL ≤±1 % at 500 µL ≤±1 % at 1000 µL
Precision	≤10 % at 1 µL ≤5 % at 2 µL ≤1 % at 10 µL ≤0.8 % at 20 µL	≤3.5 % at 5 µL ≤1.5 % at 20 µL ≤0.8 % at 100 µL ≤0.4 % at 200 µL	≤1 % at 100 µL ≤0.4 % at 500 µL ≤0.4 % at 1000 µL
Data	The pipetting calibration data is stored on the QR code. Users can directly scan and enter the calibration data through the tablet computer		
Automatic identification	The instrument automatically recognizes the models		

Ordering Information

Code	Description
ZR-11909-99	MBI Selma 96A2 liquid handling workstation, 2 types of pipetting heads available, 100-24 VAC, 100 W
ZR-11929-99	MBI Selma 96A4 liquid handling workstation, 2 types of pipetting heads available, 100-24 VAC, 100 W
ZR-11949-99	MBI Selma 96B2 liquid handling workstation, 3 types of pipetting heads available, 100-24 VAC, 100 W
ZR-11969-99	MBI Selma 96B4 liquid handling workstation, 3 types of pipetting heads available, 100-24 VAC, 100 W

Adapted Pipetting Head and Holder

Code	Description	Range	Optional instrument
ZR-11900-90	MBI-Pipet N20 20 µL 96-channel pipetting head	1~20 µL	A2/A4/B2/B4
ZR-11900-91	MBI-Pipet N200 200 µL 96-channel pipetting head	5~200 µL	A2/A4/B2/B4
ZR-11940-90	MBI-Pipet N1000 1000 µL 96-channel pipetting head	100~1000 µL	B2/B4
ZR-11900-92	384 well adapter		A2/A4/B2/B4

Adapt to TIP Consumables

Code	Packing	Volume	Description
ZR-SS-19-M	96 pcs/box, 24 boxes/carton	20 µL	MBI tip, transparent, boxed
ZR-SS-19-MK	96 pcs/box, 24 boxes/carton	20 µL	MBI tip, transparent, boxed, low adsorption
ZR-SS-19-MR	96 pcs/box, 24 boxes/carton	20 µL	MBI tip, transparent, boxed, sterile
ZR-SS-19-MRK	96 pcs/box, 24 boxes/carton	20 µL	MBI tip, transparent, boxed, sterile, low adsorption
ZR-SSE-19-MR	96 pcs/box, 24 boxes/carton	20 µL	MBI tip, transparent, boxed, sterile, filter element
ZR-SSE-19-MRK	96 pcs/box, 24 boxes/carton	20 µL	MBI tip, transparent, boxed, sterile, filter element, low adsorption
ZR-SS-199-M	96 pcs/box, 24 boxes/carton	200 µL	MBI tip, transparent, boxed
ZR-SS-199-MK	96 pcs/box, 24 boxes/carton	200 µL	MBI tip, transparent, boxed, low adsorption
ZR-SS-199-MR	96 pcs/box, 24 boxes/carton	200 µL	MBI tip, transparent, boxed, sterile
ZR-SS-199-MRK	96 pcs/box, 24 boxes/carton	200 µL	MBI tip, transparent, boxed, sterile, low adsorption
ZR-SSE-199-MR	96 pcs/box, 24 boxes/carton	200 µL	MBI tip, transparent, boxed, sterile, filter element
ZR-SSE-199-MRK	96 pcs/box, 24 boxes/carton	200 µL	MBI tip, transparent, boxed, sterile, filter element, low adsorption
ZR-SS-0999-M	96 pcs/box, 16 boxes/carton	1000 µL	MBI tip, transparent, boxed
ZR-SS-0999-MK	96 pcs/box, 16 boxes/carton	1000 µL	MBI tip, transparent, boxed
ZR-SS-0999-MR	96 pcs/box, 16 boxes/carton	1000 µL	MBI tip, transparent, boxed, sterile
ZR-SS-0999-MRK	96 pcs/box, 16 boxes/carton	1000 µL	MBI tip, transparent, boxed, sterile, low adsorption
ZR-SSE-0999-MR	96 pcs/box, 16 boxes/carton	1000 µL	MBI tip, transparent, boxed, sterile, filter element
ZR-SSE-0999-MRK	96 pcs/box, 16 boxes/carton	1000 µL	MBI tip, transparent, boxed, sterile, filter element, low adsorption

Adapt to Other Consumables

Code	Type	Description
ZR-06950-91	2.2 mL reagent kit	96 deepwell plate for MBI Selma 96/Mini/4800/S32
ZR-06950-92	0.6 mL elution plate	Elution plate for MBI Selma 96
ZR-06920-90	2.2 mL reagent kit	96 deepwell plate for MBI Selma 32A
ZR-11901-190	1.6 mL 96 deepwell plate	
ZR-11901-191	2.0 mL 96 deepwell plate	
ZR-11901-192	96 V bottom reservoir	

