ALLSHENG

Au-Mate 96 Series
Liquid Handling Workstation

Simply, Easy and Efficient

HANGZHOU ALLSHENG INSTRUMENTS CO., LTD.

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Au-Mate 96 Series
Liquid Handling Workstation

For complex experimental procedures and precise pipetting operations, Au-Mate 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.

Au-Mate 96B4

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 Au-Mate 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.

Au-Mate 96A2

● Easy to Replace Pipetting Heads

Quick replacement of 3 types of pipetting heads without assistance

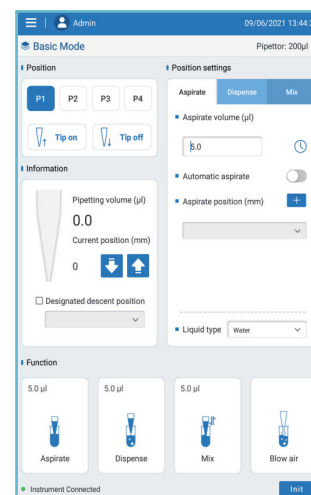| Push the mobile board up | Pull out the front skirt | Release the handles on both sides | Pull out the pipetting head |

● 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.

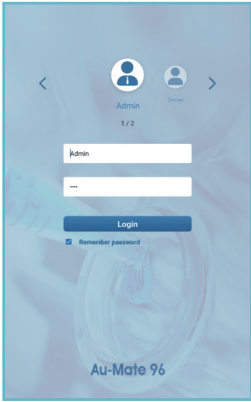## ● High Flexibility of the Software Brings Multiple Pipetting Functions

· 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

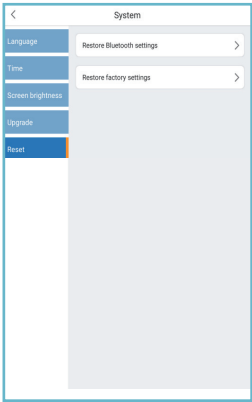Graphical and powerful software pipetting functions

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● **Intuitive Program Setting Interface**

Graphical software interface, which is easy to 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.

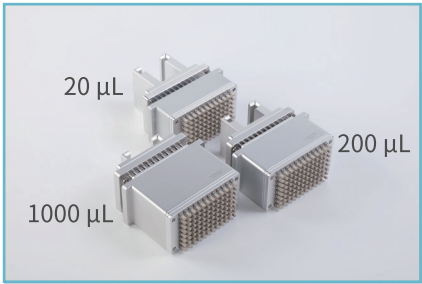● **Support Wired Operation and Wireless Bluetooth Control**

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

Au-Mate 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	Au-Mate 96A2	Au-Mate 96A4	Au-Mate 96B2	Au-Mate 96B4
Plate number	2	4	2	4
Adapted pipetting head	Adapt to Au-Pipet N20 & N200 heads		Adapt to Au-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 Allsheng 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 (W×D×H) 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	Au-Pipet N20	Au-Pipet N200	Au-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 ≤±5 % at 2 μl ≤±1 % at 10 μl ≤±1 % at 20 μl	≤±5 % at 5 μl ≤±2 % at 20 μl ≤±1 % at 100 μl ≤±1 % at 200 μl	≤±2.5 % at 100 μl ≤±0.4 % 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	≤1.25 % 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
AS-22010-00	Au-Mate 96A2 liquid handling workstation, 2 types of pipetting heads available, 100-24 VAC, 100 W
AS-22030-00	Au-Mate 96A4 liquid handling workstation, 2 types of pipetting heads available, 100-24 VAC, 100 W
AS-22050-00	Au-Mate 96B2 liquid handling workstation, 3 types of pipetting heads available, 100-24 VAC, 100 W
AS-22070-00	Au-Mate 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
AS-22011-01	Au-Pipet N20 20 μl 96-channel pipetting head	1~20 μl	A2/A4/B2/B4
AS-22011-02	Au-Pipet N200 200 μl 96-channel pipetting head	5~200 μl	A2/A4/B2/B4
AS-22051-01	Au-Pipet N1000 1000 μl 96-channel pipetting head	100~1000 μl	B2/B4
AS-22011-03	384 well adapter		A2/A4/B2/B4

Adapt to TIP Consumables

Code	Packing	Volume	Description
AS-TT-20-N	96 pcs/box, 24 boxes/carton	20 μL	Allsheng tip, transparent, boxed
AS-TT-20-NL	96 pcs/box, 24 boxes/carton	20 μL	Allsheng tip, transparent, boxed, low adsorption
AS-TT-20-NS	96 pcs/box, 24 boxes/carton	20 μL	Allsheng tip, transparent, boxed, sterile
AS-TT-20-NSL	96 pcs/box, 24 boxes/carton	20 μL	Allsheng tip, transparent, boxed, sterile, low adsorption
AS-TTF-20-NS	96 pcs/box, 24 boxes/carton	20 μL	Allsheng tip, transparent, boxed, sterile, filter element
AS-TTF-20-NSL	96 pcs/box, 24 boxes/carton	20 μL	Allsheng tip, transparent, boxed, sterile, filter element, low adsorption
AS-TT-200-N	96 pcs/box, 24 boxes/carton	200 μL	Allsheng tip, transparent, boxed
AS-TT-200-NL	96 pcs/box, 24 boxes/carton	200 μL	Allsheng tip, transparent, boxed, low adsorption
AS-TT-200-NS	96 pcs/box, 24 boxes/carton	200 μL	Allsheng tip, transparent, boxed, sterile
AS-TT-200-NSL	96 pcs/box, 24 boxes/carton	200 μL	Allsheng tip, transparent, boxed, sterile, low adsorption
AS-TTF-200-NS	96 pcs/box, 24 boxes/carton	200 μL	Allsheng tip, transparent, boxed, sterile, filter element
AS-TTF-200-NSL	96 pcs/box, 24 boxes/carton	200 μL	Allsheng tip, transparent, boxed, sterile, filter element, low adsorption
AS-TT-1000-N	96 pcs/box, 16 boxes/carton	1000 μL	Allsheng tip, transparent, boxed
AS-TT-1000-NL	96 pcs/box, 16 boxes/carton	1000 μL	Allsheng tip, transparent, boxed
AS-TT-1000-NS	96 pcs/box, 16 boxes/carton	1000 μL	Allsheng tip, transparent, boxed, sterile
AS-TT-1000-NSL	96 pcs/box, 16 boxes/carton	1000 μL	Allsheng tip, transparent, boxed, sterile, low adsorption
AS-TTF-1000-NS	96 pcs/box, 16 boxes/carton	1000 μL	Allsheng tip, transparent, boxed, sterile, filter element
AS-TTF-1000-NSL	96 pcs/box, 16 boxes/carton	1000 μL	Allsheng tip, transparent, boxed, sterile, filter element, low adsorption

Adapt to Other Consumables

Code	Type	Description
AS-17061-02	2.2 ml reagent kit	96 deepwell plate for Auto-Pure 96/Mini/4800/S32
AS-17061-03	0.6 ml elution plate	Elution plate for Auto-Pure 96
AS-17031-01	2.2 ml reagent kit	96 deepwell plate for Auto-Pure 32A
AS-22012-201	1.6 ml 96 deepwell plate	
AS-22012-202	2.0 ml 96 deepwell plate	
AS-22012-203	96 V bottom reservoir	