MEGAROBO

LIQUID HANDLING WORKSTATION

Auflo-P1200/1600

Satisfying all application scenarios of liquid handling
Building a smart and collaborative laboratory ecosystem

Platform-based

Multi-module

Full-featured

Custom-tailored

LIQUID HANDLING WORKSTATION
Auflo-P1200/1600

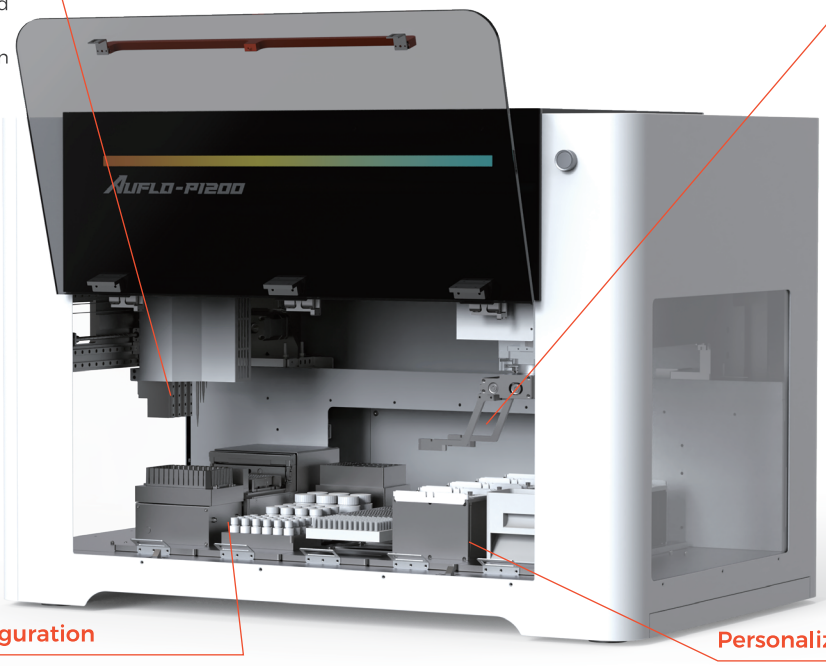
Focusing on the research and development of robotics and artificial intelligence, MegaRobo applies its cutting-edge technology to industrial applications, aiming to provide customers with advanced automation products and solutions. The self-developed liquid handling workstation Auflo-P1200/1600, which is equipped with four independent 1000μL pipetting channels, features controllable pipetting spacing and pipetting volume independently. Compatible with various samples, reagents, consumables, and modules, the whole workstation also can be configured freely and integrated according to different application scenarios. With special and powerful robotic arm expansion ability, Auflo-P1200/1600 supports simultaneous processing of plate handling and pipetting, and can connect and integrate multiple devices to ensure that it fulfills the needs of various complex laboratory automation scenarios. This workstation is widely used in the fields of bio-pharmaceutical, life sciences, and clinical diagnostics to continuously optimize experimental reliability and processing time, greatly improving efficiency.

Flexible Pipetting Module

4 channels of independent variable spacing and liquid level detection.
Efficient and high-precision pipetting.
Pipetting range 2-1000μL.

Upgradeable to Dual Robotic Arms

The optional plate handling arm meets the complete automation requirements of experimental analysis.



Worktable Free Configuration

Compatible with different sample tubes: support blood collection tube, centrifuge tube, sampling tube, etc.
Compatible with different consumables: support deep well plate, cell culture plate, disposable tips, etc.

Personalized Module Integration

Optional modules of shaker, magnet, code scanner, temperature controller, etc
One platform, unlimited combinations.

USAGE SCENARIOS

- Genomics
- Proteomics
- Cell Biology
- Drug Discovery
- Synthetic Biology

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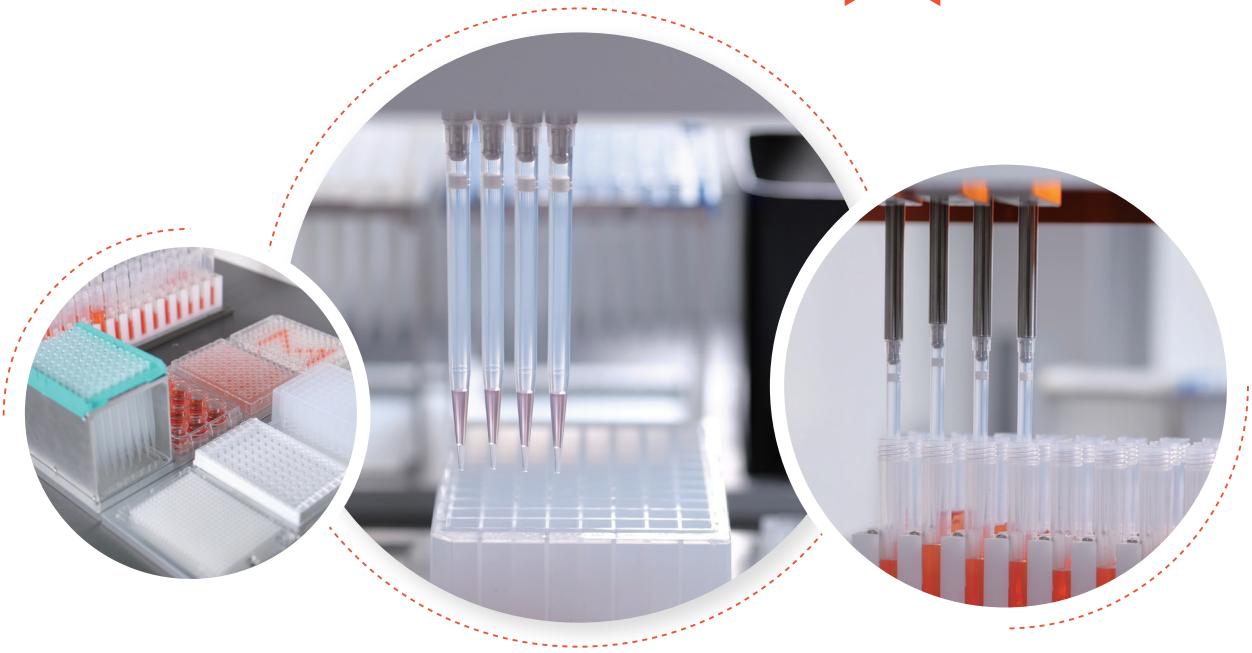


Worktable Free Configuration

Support Air Gap

Precise Liquid Level Detection

Features

Diversified liquid handling modes backed by professional capability

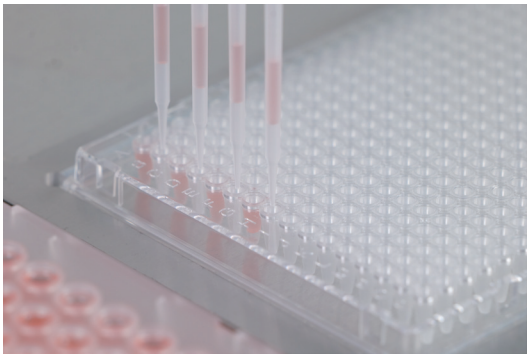
- Whole plate replication or liquid dispensing, compatible with reagent reservoirs, 96-well plate and 384-well plate.
- Liquid transfer from any tube, plate wells to achieve "cherry picking" .
- Accurately perform gradient dilution by row or column.
- Flexible dispensing from tube to plate to realize one aspiration with one dispensing or multiple dispensing.
- Automatic "pooling" function.

The ability for multiple module integration, free configuration for worktable

- Compatible with various consumables including SBS plates, sampling tubes, reagent reservoirs, and disposable tips, support multiple application scenarios.
- Multiple optional functional modules can be integrated and customized on demand, including modules of temperature controller, shaker, temperature control shaker, magnet, code scanner, etc.
- Mobile carriers support worktable reconfiguration.
- The composed 25 or 40 standard SBS plates can meet various throughput requirements.

Special expansion ability for the robotic arm to support simultaneous processing

- According to the different application requirements, a platform can be equipped with up to two robotic arms, including arms for plate handling and pipetting.
- The integrated pipetting robotic arm adopts pressure detection to ensure stability and efficiency.
- Intelligent sensing robotic arm equipped with rotatable grasper can capture grasp state in real time.



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AUFLO Liquid Handling Workstation

Multi-level solutions

Suitable for various application scenarios

Product model		Auflo-P1200			Auflo-P1600		
Appearance	Size	1100(W)*750(D)*760(H)mm			1550(W)*750(D)*800(H)mm		
	Net Weight	110kg			140kg		
Power	Voltage	100-240VAC			100-240VAC		
	Frequency	50-60Hz			50-60Hz		
	Rated Power	300W			300W		
Operation Environment	Temperature	15–32 ℃			15–32 ℃		
	Humidity	30–80% (No condensation)			30–80% (No condensation)		
Pipetting Environment	Temperature	20–27 ℃			20–27 ℃		
	Humidity	30–60% (No condensation)			30–60% (No condensation)		
Pipetting Performance	Pipetting principle	Air Displacement Principle			Air Displacement Principle		
	Pipetting Range	2-1000μL			2-1000μL		
	Pipette Tip Type	Flexible 4-channel			Flexible 4-channel		
	Pipetting Precision	Tip Size	Pipetting Volume	Precision	Tip Size	Pipetting Volume	Precision
		10μL	2μL	5.0%	10μL	2μL	5.0%
		10μL	10μL	3.0%	10μL	10μL	3.0%
		200μL	50μL	2.0%	200μL	50μL	2.0%
Number of plate positions		25 (30 grids)			40 (48 grids)		
Robotic Arm	Positioning Accuracy	X-Y-Z Positioning±0.2mm			X-Y-Z Positioning±0.2mm		
	Maximum Number of robotic arms	2			2		
Accurate Sample Identification		Lateral code scanning (manually)			Lateral code scanning (manually)		

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