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# LIQUID HANDLING WORKSTATION

## Auflo-P1200 Professional Liquid Handling Workstation


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

Platform-based

Multi-module

Full-featured

Custom-tailored

# Liquid Handling Workstation Auflo-P1200

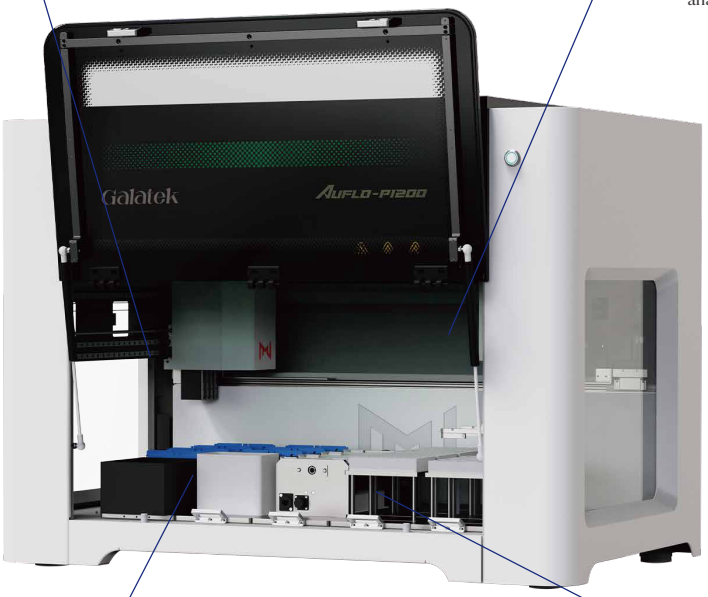
The self-developed liquid handling workstation Auflo-P1200 is equipped with 4 independent 1000μL pipetting channels, features independent and adjustable pipetting spacing and pipetting volume. It is compatible with all kinds of sample, reagent consumables and functional modules, and can be freely configured according to different applica-tion scenarios and integrated on demand. It features a special and powerful robotic arm expansion ability to support parallel 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-pharmaceuticals, life sciences, and clinical diagnostics to continuously optimize experimental reliability and automated uptime, greatly improving efficiency.

### Flexible Pipetting Module

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

### Upgradeable to DualRobotic Arms

Optional plate handling robot-ic arm to meet the needs of automation requirements of experimental analysis




### Free Configuration For Working Area

Compatible with different sample tubes:Support for blood sampling tubes, centrifuge tubes, sample tubes, etc.Compatible with different consumables:Support for deep well plates, cell plates, pipetting tips, etc.

### Personalized Module Integration

Optional modules for shaking, magnetic stand, barcode scanning, temperature control, etc.One platform, unlimited combinations.

## USAGE SCENARIOS

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

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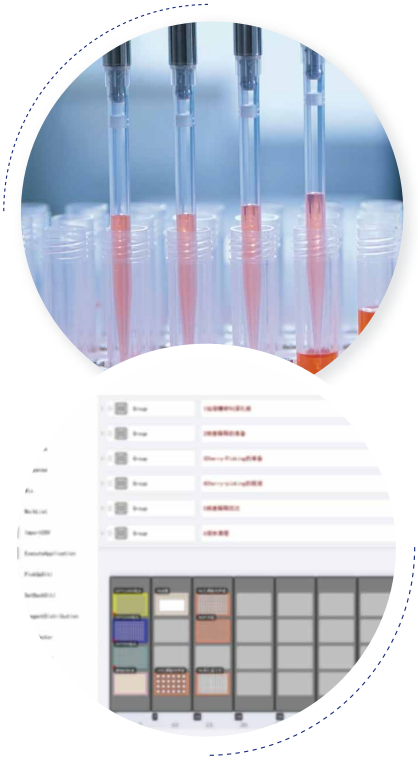


## Flexible Pipetting Channel

- Adjustable channel spacing from 9 mm-18 mm for fast pipetting from tube to plate.
- Each channel can independently detect the liquid level and simulta-neously aspirate liquid up to different heights.
- Independent Z-axis, enabling convenient realization of functions such as cherry picking and pooling.

## Highly Open Software

Built-in multiple pipetting modes, drag-and-drop process editing.
Graphical worktable design, free to set the deck layout.
Convenient program management design, one-click to start running.
Support the upgraded functions such as Liquid Class setting, Work List import, CSV import, etc.

# Product Features

### Diversified liquid handling modes backedby professional capability

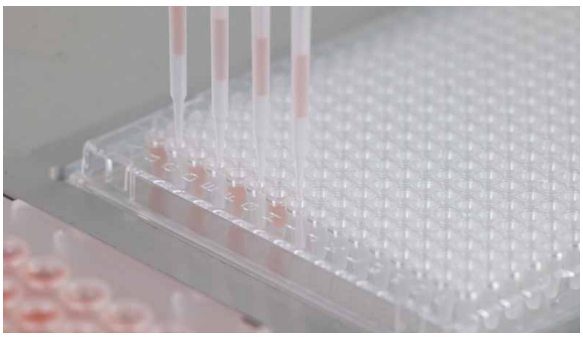
- Support whole-plate replication or dispensing, compat-ible with loading slots and 96-well plates.
- Liquid transfer from any tubes, plate wells.
- Accurately perform gradient dilution by row or column.
- Easy to realize the functions of one aspiration with one dispensation, one aspiration with multiple dispensation, "pooling" and "cherry picking".
- Support Liquid Class settings such as Air Gap, aspiration delay, etc.
- Easy to realize.

### Special expansion ability for the robotic arm to support parallel processing

- According to the different application requirements, a platform can be equipped with up to two robotic arms, including robotic arm for handling plate and pipetting.
- The integrated pipetting robotic arm adopts pressure detection to ensure stability and efficiency.
- Plate handling robotic arm allows 360° rotation to reach the whole deck, transferring consumables among different functional areas.

### Capable of integrating multiple modules, freely configuring workspace

- Compatible with all kinds of consumables such as SBS plates, sample tubes, loading slots, and tips, supporting multiple application scenarios.
- Multiple functional modules are available, including modules of temperature control, shaking, temperature controlled shaking, magnetic stand, barcode scanning etc., which can be integrated and customized on demand.
- Freely replaceable carriers support operating platform reconfigura-tion
- The composed 25 standard SBS plate positions can meet various throughput requirements



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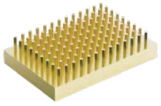
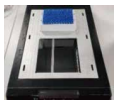
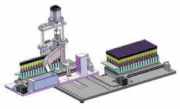
# Functional Modules

| Photo | Name | Functions | Parameters |
|---|---|---|---|
|  | PCR machine | Used for enzymatic reactions and PCR reactions in experiments | Temperature range: 4°C to 99°C |
|  | Blood separation module | Used to identify and separate complex blood components | Blood component dispensing features an ultra-high definition CCD camera to achieve accurate stratification definition of the liquid in the tube |
|  | Magnetic stand | Used for magnetic bead separation during experiments | Match SBS well plates |
|  | Heating and shaking module | To provide shaking and heating function, suitable for SBS microwell plates | Temperature range: RT to 99°C<br>Shaking speed: 50 rpm-2000 rpm |
|  | Temperature control module | To provide a constant temperature (cooling or heating) function | Normal temperature control range: 4°C~90°C, extreme temperature control range: 0°C~110°C |
|  | Positive pressure module | Used for solid phase extraction in the sample pretreatment step | Precise regulation of pressure and flow for fast SPE. Software controls the flow rate automatically, eliminating the impact of human factors on SPE extraction |
|  | HEPA module | Basic safety module of the protective barrier for laboratory biosafety | Support positive or negative pressure, depending on demand |
|  | 2D code scanning at the bottom of the cryopreservation tube | Used for automatic scanning and identification of the 2D code at the bottom of the whole plate tube in the SBS cryopreservation box | Adaptable to 8*12 or 10*10 cryopreservation box, compatible with various tubes - |
|  | Cryopreservation tube capping & uncapping module | Used for fast and automatic capping and uncapping of the whole plate tube in the SBS cryopreservation box | Uncapping time of 96 samples is less than 20 seconds |
|  | Blood sampling tube uncapping module | Automatic uncapping and cap dropping of blood sampling tubes | Uncapping speed less than 3 seconds per tube |

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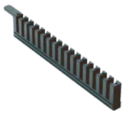
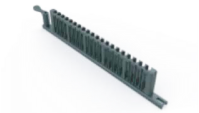
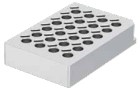
# Conventional carriers

| Photo | Name | Adaptive Consumables |
|---|---|---|
|  | 16-tube carrier | Capable of placing 16 tubes, suitable for blood sampling tubes and reagent tubes |
|  | 20-tube carrier | Capable of placing 20 tubes, suitable for blood sampling tubes and reagent tubes |
|  | 6-tube SBS adapter | Capable of placing 6 tubes |
|  | 12-tube SBS adapter | Capable of placing 12 tubes |
|  | 24-tube SBS adapter | Capable of placing 24 tubes, suitable for 1.5mL, 2mL EP tubes |
|  | 48-tube SBS adapter | Capable of placing 48 tubes, suitable for 1mL - 4mL sample tubes |
|  | SBS well plate carrier | Capable of placing 1 plate, suitable for SBS standard well plates, such as 96-well/384-well PCR plate |
|  | SBS well plate carrier | Capable of placing 1 plate, suitable for SBS standard well plates, such as deep-well plate, ELISA plate, cell culture plate, etc. |
|  | Tip carrier | Capable of placing 1 plate, suitable for SBS standard tip boxes |
|  | 5-position conventional carrier plate | Capable of placing 5 plates, suitable for SBS standard well plates, loading slots, and tip boxes |
|  | 8-strip tube adaptor | Capable of placing 12 columns, suitable for 0.2mL PCR 8-strip tubes |
| | Others | Support customized carriers based on specific consumables |

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# AUFLO Liquid Handling Workstation

## Multi-level solutions

Suitable for various application scenarios

| Product Features | | Auflo-P1200 | | |
|---|---|---|---|---|
| Appearance | Size | 1100(W)*770(D)*820(H) | | |
| | Net Weight | 110kg | | |
| Power | Voltage | 100-240VAC | | |
| | Frequency | 50-60Hz | | |
| | Rated Power | 300W | | |
| Operation Environment | Temperature | 15-32 C | | |
| | Humidity | 30-80%(No condensation) | | |
| Pipetting Environment | Temperature | 20-27 C | | |
| | Humidity | 30–60% (No condensation) | | |
| Pipetting Performance | Pipetting principle | Air Displacement Principle | | |
| | Pipetting Range | 2-1000μL | | |
| | Pipette Tip Type | Flexible 4-channel | | |
| | Pipetting Precision | Tip Size | Pipetting Volume | Precision |
| | | 10μL | 2μL | 5.0% |
| | | 10μL | 10μL | 3.0% |
| | | 200μL | 50μL | 2.0% |
| Number of plate positions | | 25(30 grids) | | |
| Robotic Arm | Positioning Accuracy | X-Y-Z Positioning±0.2mm | | |
| | Maximum Number of robotic arms | 2 | | |
| Accurate Sample Identification | | Lateral code scanning (manually) | | |


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