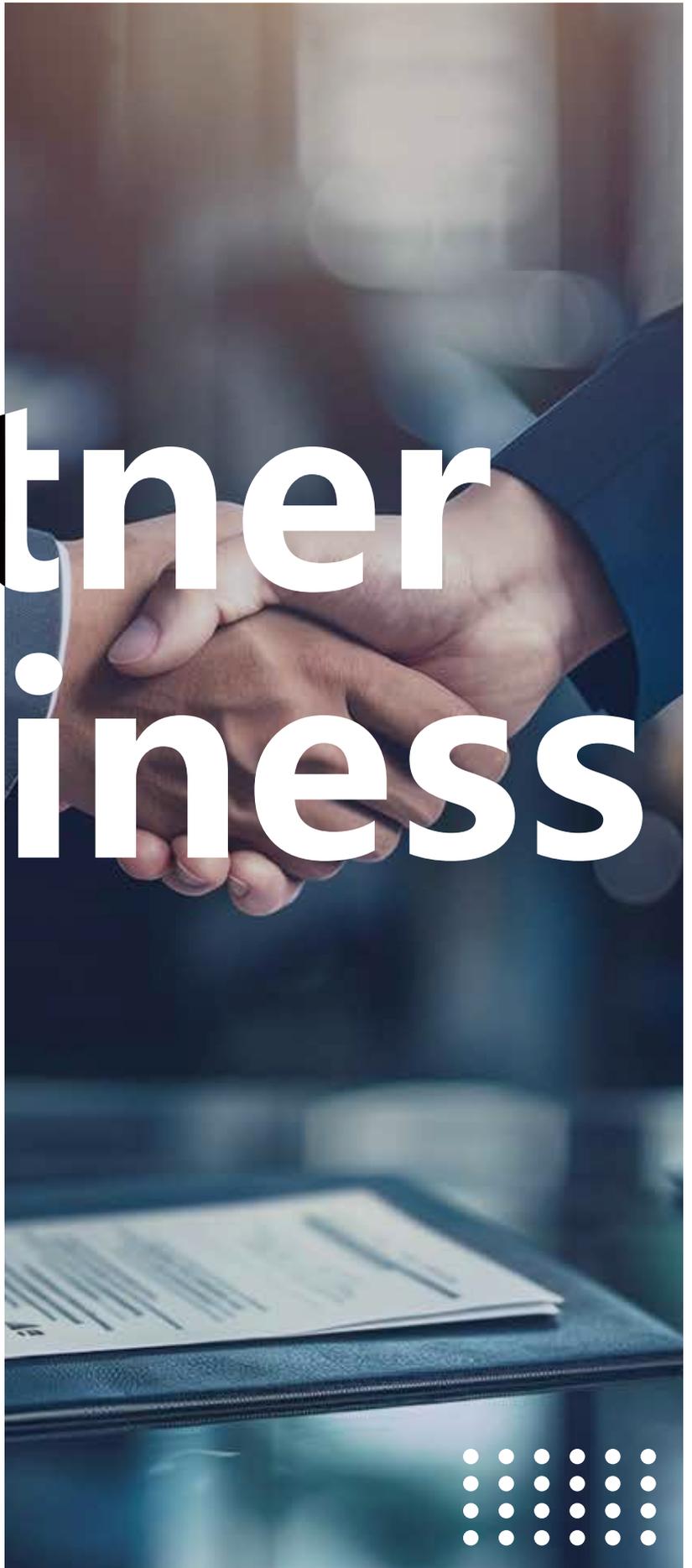




By Precision, For Simplicity

# Partner Business



**CONTACT US**

● [www.nayolab.com](http://www.nayolab.com)



# Designed today, Delivered in 15 days FAN Platform engineered to meet

## Customize to suit your expectations

For reagent companies in order to remain competitive and maximize growth, the need of an automated solutions suited for their products becomes a critical driver for next level expansion. However, facing with the high cost of design, quality production capabilities, lack of expertise, and production costs, these factors all barriers for companies to enter the automated instrument space.

NAYO's innovative FAN platform, through its unique modular design, an established rapid delivery capability, and its ability to address different needs provides a strong automated solution to any of our partner's products. The FAN platform significantly reduces time from design to product, while cutting delivery cycles from several months to just weeks — **with lead times as short as 15 days.**



# days at the toughest industry demand

At NAYO, we have a new state of the art factory, along with a strong vertical production chain to process from raw materials all the way to the final parts/modules. Thus, ensuring a reliable quality and stability of all the units and parts produced. The FAN process also provides for easy upgrade/updates to newer technologies as we aim to keep up with innovations improvements of our customers with comparable automated equipment to ensure we stay ahead of the competition. We have enabled global enterprises to efficiently address their liquid handling automation challenges.



FAN Standard Configurator:

# Your First Steps to Automation

On the FAN platform, you can configure your desired automated liquid handling workstation in just 4 steps by selecting the base unit, the multi-function arm (MFA), the bench layout, and accessory.

STEP 1

Base Unit

## A8 mini

### Benchtop Automated Liquid Handling Workstation

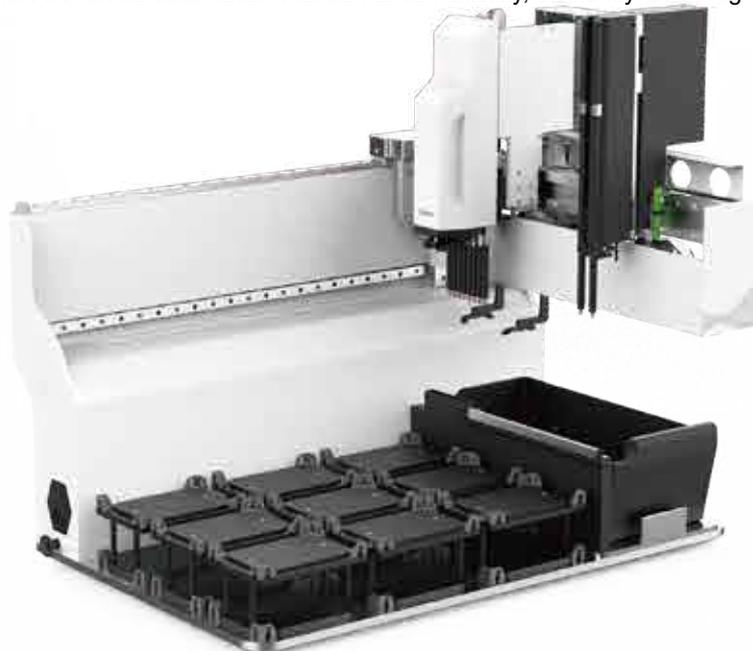
#### Standardize Your Short Workflows

The A8 mini is a compact, benchtop liquid handling workstation designed for labs with limited bench space. Based on one single arm, it offers over 10 configurations for unparalleled flexibility:

- **Pipetting Modules:** Single-channel, dual-channel, flexible 4-channel, and fixed 8-channel.
- **Mixed-Mode:** Support the combined use of a fixed 8-channel pipetting module with flexible-channel pipetting modules.
- **Extended Capability:** Configurable with adaptive force gripper module.

The workstation features 12 standard SBS-compatible deck slots and can integrate up to three functional modules simultaneously, such as temperature control, shaking, detection, fluorescence readers, and third-party device. All multi-function arm(MFA) modules and on-deck modules support tool-free quick swapping capability within 3 minutes.

Beyond high-precision pipetting, the A8 mini streamlines complex workflows including concentration normalization, clone picking, sample pooling, and various purification assays. Its modularity enables multi-application utility in one single workstation, making it an ideal choice for short workflows automation that demands flexibility, efficiency and a high return on investment.



# A8 pro

## Automated Liquid Handling Workstation

### Flexible Expansion for Demanding Long Workflows

The A8 pro is a flexibly scalable, professional-grade liquid handling platform. It supports configurations with either a single arm or dual arms, offering over 24 optional combination setups:

- **Pipetting Modules:** Single-channel, dual-channel, flexible 4-channel, flexible 8-channel, flexible 12-channel, fixed 8-channel, and fixed 24-channel.
- **Mixed-Mode:** Support the combined use of one fixed 8-channel / fixed 24-channel pipetting module with flexible-channel pipetting modules.
- **Extended Capability:** Configurable with adaptive force gripper module and tube rotation and gripper module.

With a deck capacity of up to 60 SBS-compatible slots, it can integrate multiple functional modules simultaneously to meet the demands of long and complex experimental workflows.

By integrating third-party device, the A8 pro enables complete end-to-end automation from sample preparation to result analysis, delivering a highly reliable and scalable automation solution for R&D and testing laboratories.



# A96

## Automated Liquid Handling Workstation

### Efficient Whole-Plate Processing for Scaled Productivity

The A96 is an automated liquid handling platform designed for high-throughput applications. It features a high-precision 96-channel pipetting module and supports configurations with either a single arm or dual arms.

In a dual-arm setup, one arm is dedicated to the fixed 96-channel pipetting module, while the other can be equipped with an optional flexible 4-channel or 8-channel pipetting module. This enables collaborative workflows for efficient bulk dispensing and precise reagent addition.

- **Pipetting Modules:** Single-channel, dual-channel, flexible 4-channel, flexible 8-channel, and fixed 96-channel.
- **Mixed-Mode:** Support the combined use of one fixed 96-channel with flexible-channel pipetting modules.
- **Extended Capability:** Configurable with adaptive force gripper module and tube rotation and gripper module.

With a deck capacity of up to 60 SBS-compatible slots, it can integrate various functional modules such as temperature control, shaking, detection, and more, to meet the requirements of larger-scale and longer experimental workflows.

By integrating third-party device, the A96 enables a high-throughput, end-to-end automated solution—from sample to result.



# N96 S

## Benchtop Automated Liquid Handling Workstation

### Compact High-Throughput, Precision Automation

The N96 S is a benchtop liquid handling platform designed for high-throughput applications. Equipped with a high-precision fixed 96-channel pipetting module and an optional adaptive force gripper module, it perfectly balances operational efficiency with procedural flexibility.

- **Standard Configuration:** Supports a fixed 96-channel pipetting module.
- **Extended Capability:** Supports seamless synergy between the fixed 96-channel pipetting module and an integrated adaptive force gripper module.

The platform supports 4 or 6 SBS-compatible deck slots and can be integrated with various functional modules such as temperature control, shaking, detection, and more.

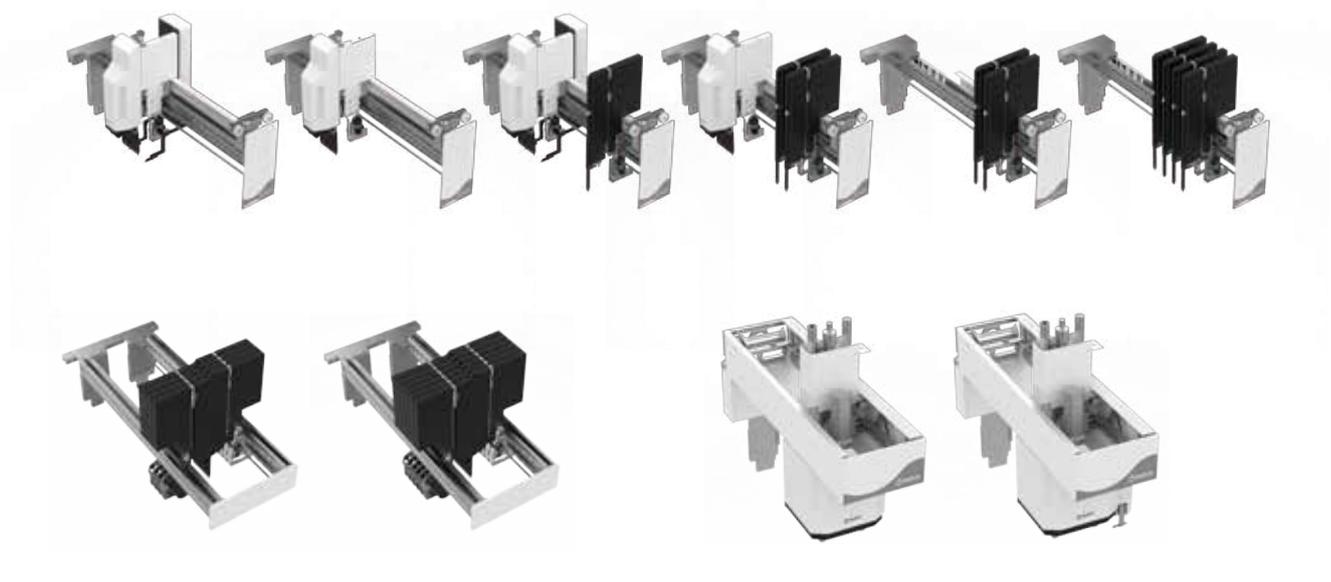
By connecting with third-party device, the **N96S** provides a compact automation solution for medium-scale to small-scale high-throughput experiments, from sample preparation to result output.



Base Unit	Dimensions(W × D × H)	No. of Deck Slots
N96 S	711mm x 392mm x 582mm	4
	998mm x 392mm x 582mm	6
A8 mini	665mm x 525mm x 610mm	12
A8 pro	790mm x 740mm x 980mm	20
	1240mm x 740mm x 980mm	35
A96	790mm x 740mm x 1168mm	20
	1240mm x 740mm x 1168mm	35

※ A8 pro & A96 can be customized deck capacity up to 60 deck slots.

## STEP 2 Pipetting Head and Multi-Function Arm



※ Additional non-standard set up can be customized to your needs.

STEP 3

On-Deck Modules



ASM



HSM



TCS



TCM

Designed for Integration, Easy Use and Precision.

- **Stable and Wide Speed Range:** Covering from 0 to 5000 rpm, it effortlessly handles diverse workflows, from gentle homogenization to vigorous shaking, suitable for a wide variety of liquids.
- **Accurate Temperature Control:** The innovative temperature control system enables precise heating and cooling, which is crucial for temperature-sensitive experimental steps.
- **Low-Profile Modular Design:** It features a small footprint and a compact form factor, effectively saving valuable laboratory bench space.
- **Easy to Use and Install:** With quick plug-and-play operation, it offers the flexibility to switch rapidly between different workflows, significantly improving experimental efficiency and reliability.

STEP 4

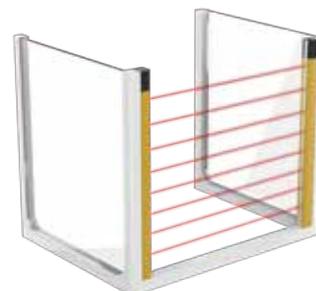
Additional Accessories



UV



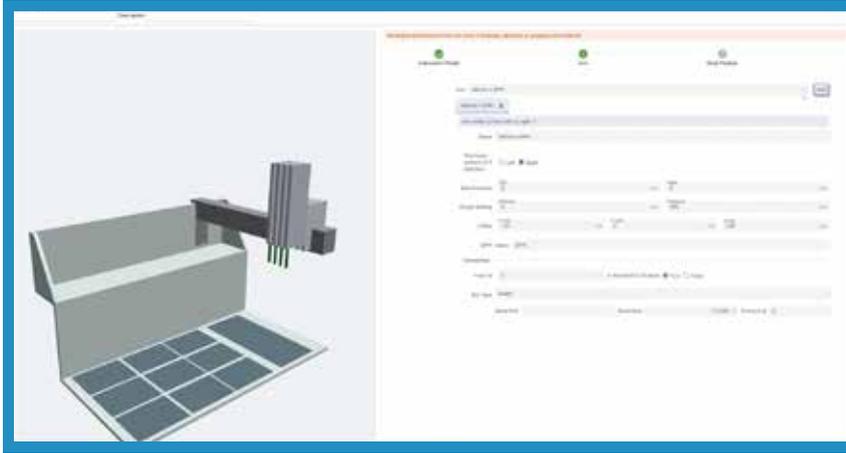
HEPA



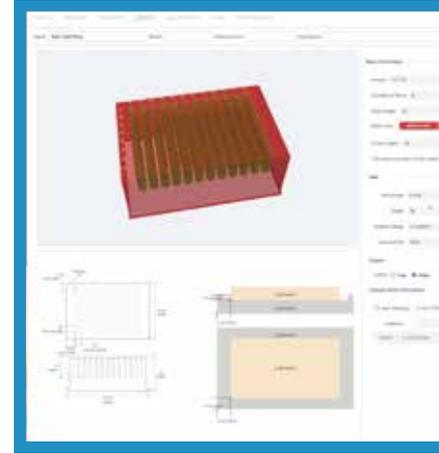
Light Curtain

Intuitive Software:

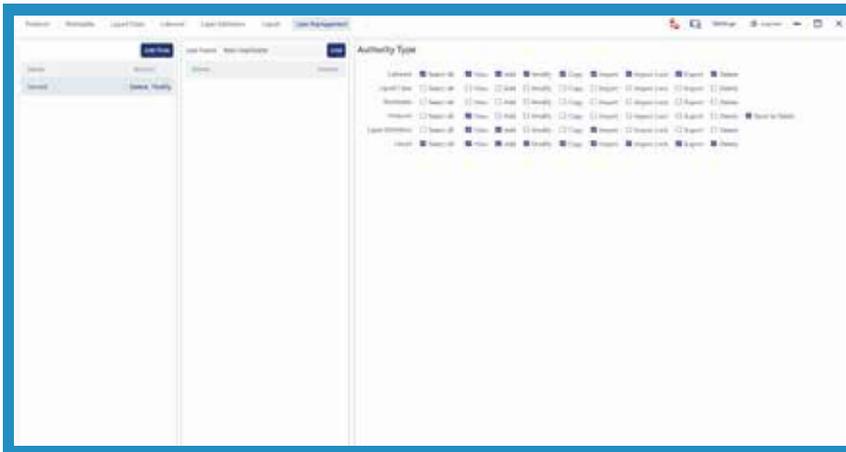
# Low-Barrier Interface with No S



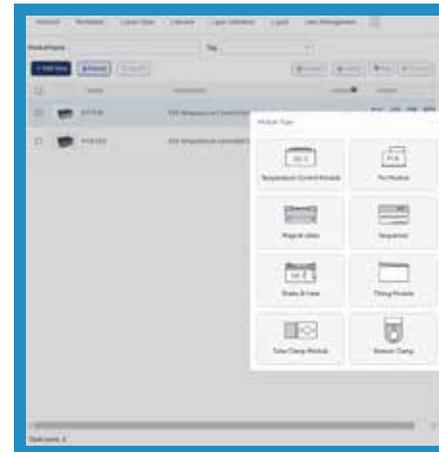
**Drag-to-Build Experiment & Smart Logical Commands**



**Open 3D Labware Library**  
1. True-to-scale 3D visualization  
2. Parametric custom generation of key dimensions

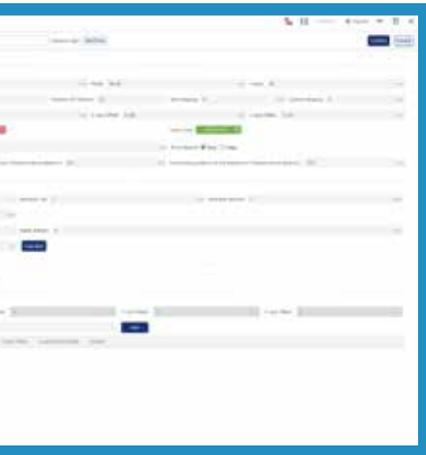


**Flexible User Rights Management**

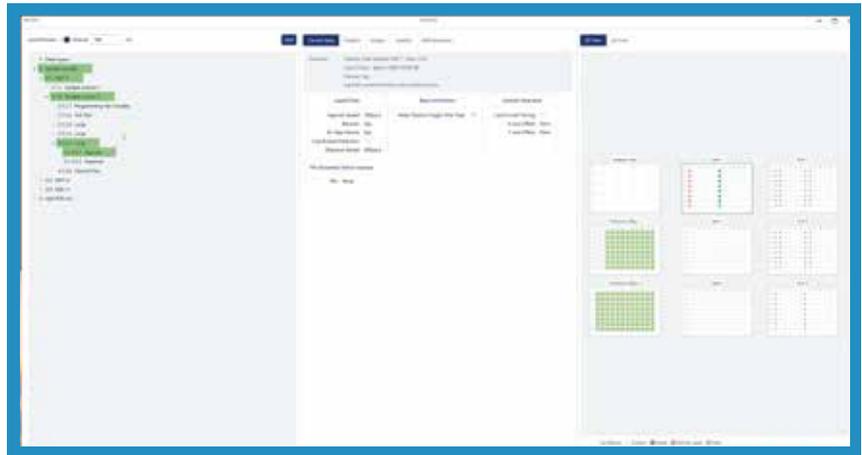


**Powerful Third-Party Development**

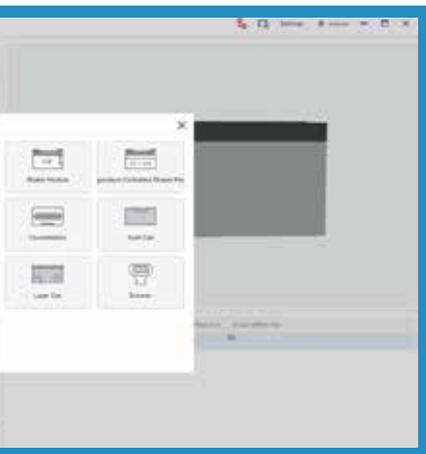
# Special Training Needed



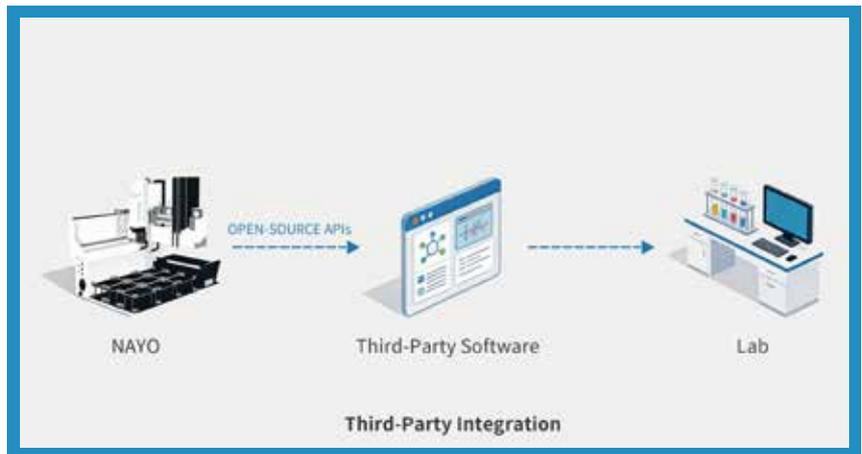
Inventory  
Management  
Automation  
Generation by simply entering



Experiment Process Simulation



Device Integration



Remote Control & Open-Source APIs

# Quick Installation and Self-Service Maintenance

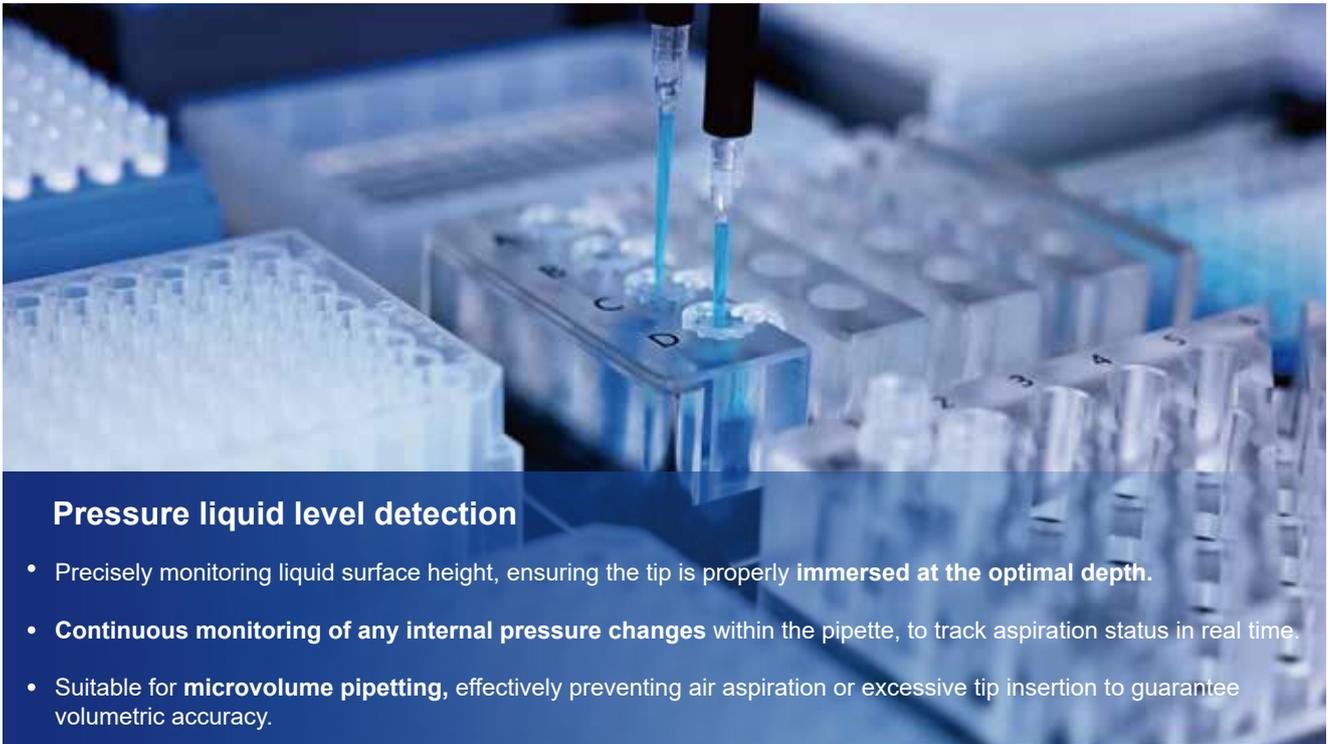
**POGO PIN** technology enables modular assembly and disassembly of products, facilitating precise fault localization and rapid repair of individual components. This eliminates the need for on-site technician maintenance, thereby reducing wait times.

**POGO PIN**



**DESIGN**

# Pressure Liquid Level Detection



## Pressure liquid level detection

- Precisely monitoring liquid surface height, ensuring the tip is properly **immersed at the optimal depth**.
- **Continuous monitoring of any internal pressure changes** within the pipette, to track aspiration status in real time.
- Suitable for **microvolume pipetting**, effectively preventing air aspiration or excessive tip insertion to guarantee volumetric accuracy.

## Pipette Specifications

### Range 1~1000 $\mu$ L

Tip Capacity	Tested Volume	Accuracy %D	Precision %CV
50 $\mu$ L	1 $\mu$ L	10	8
50 $\mu$ L	2 $\mu$ L	8	4
50 $\mu$ L	5 $\mu$ L	4	4
50 $\mu$ L	50 $\mu$ L	1	1
250 $\mu$ L	50 $\mu$ L	1	1
250 $\mu$ L	250 $\mu$ L	1	1
1000 $\mu$ L	100 $\mu$ L	1	1
1000 $\mu$ L	500 $\mu$ L	0.5	0.5
1000 $\mu$ L	1000 $\mu$ L	0.5	0.5

### Range 0.7~300 $\mu$ L

Tip Capacity	Tested Volume	Accuracy %D	Precision %CV
50 $\mu$ L	0.7 $\mu$ L	12	10
50 $\mu$ L	1 $\mu$ L	8	8
50 $\mu$ L	10 $\mu$ L	3	3
50 $\mu$ L	50 $\mu$ L	1	1
250 $\mu$ L	50 $\mu$ L	1	1
250 $\mu$ L	100 $\mu$ L	0.5	0.5
250 $\mu$ L	250 $\mu$ L	0.5	0.5
1000 $\mu$ L	100 $\mu$ L	1	1
1000 $\mu$ L	300 $\mu$ L	1	1

**Modern factories with large-scale production from raw materials to finished goods along with a full-process quality control system throughout the entire process.**





## Partner

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