



By Precision, For Simplicity

Flexible Architecture of NAYCO



CONTACT US

• www.nayolab.com



Meet the Flexible Architecture of FAN Platform engineered to mee

Tired of being forced to choose between off-the-shelf automation systems that lack specific functional modules? The FAN platform is a modular automation system. Its core modular components can be freely configured to create a solution tailored to your process. Available modules include a pipetting module, adaptive force gripper, multi-function arm (MFA) and on-deck modules.

Whether your workflows involve high-throughput drug screening, cell culture or ELISA assays, FAN offers a solution without compromise. By integrating standardized yet customizable modules, FAN simplifies customization while maintaining the flexibility and scalability of a modular system.



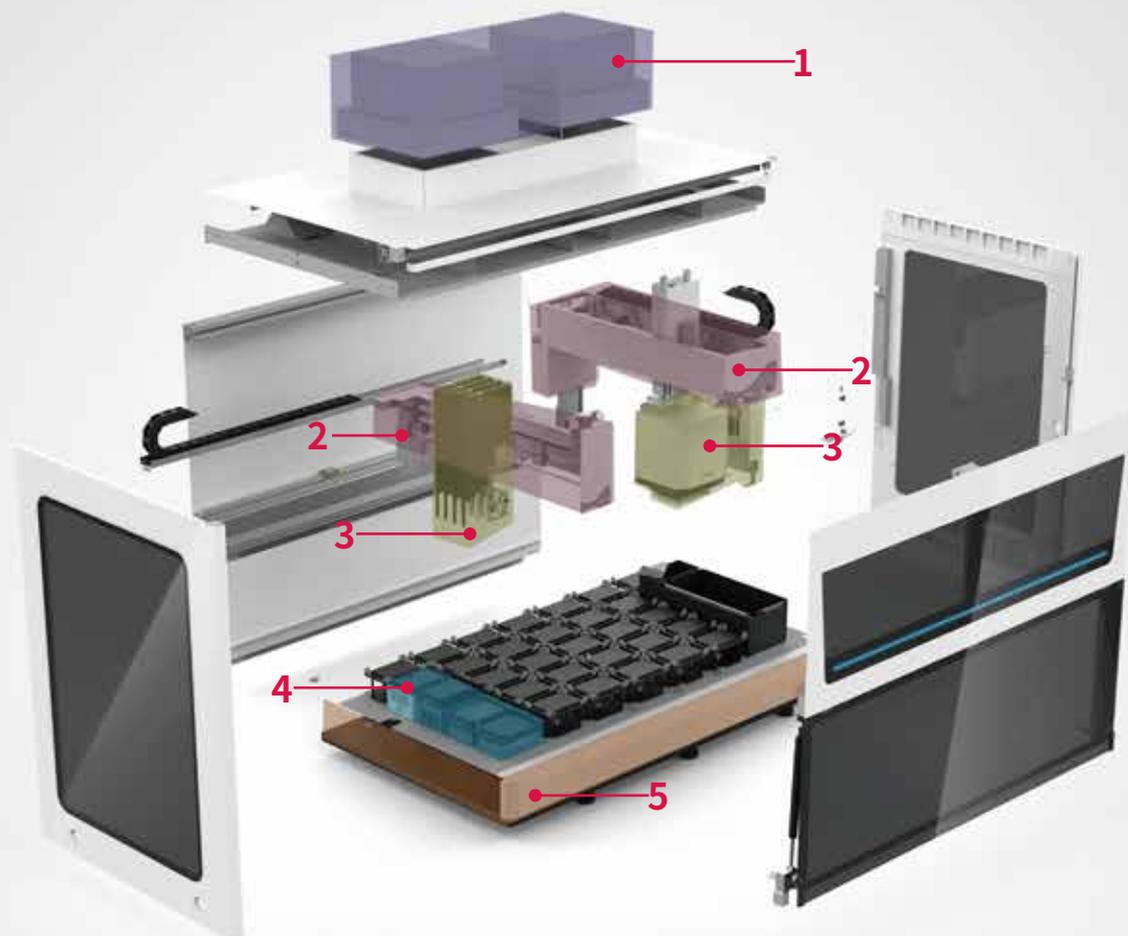
FANAYO (FAN)

Meet the toughest industry demand

...ility or offer excessive, costly performance? Nayo redefines flexibility with our platform-based **FAN**...
...ecise needs. The workstation includes five key modular components: liquid handling base unit,

...adapts seamlessly to your application requirements, delivering reliability and efficiency without...
...hile ensuring rapid deployment of the scalable performance — empowering your lab.





- ① HEPA
- ② Multi-Function Arm(MFA)
- ③ Pipetting Module
- ④ On-Deck Module
- ⑤ Base Unit

I Multi-Function Arm(MFA)

To achieve optimal experimental workflows and pathways tailored to diverse application scenarios, our single-channel pipetting modules, fixed-channel pipetting modules, and adaptive force gripper offer hundreds of configurable combinations through flexible integration. This adaptability ensures seamless adaptation to your increasingly complex and evolving requirements.

1) Fixed-Channel Pipetting Modules

- Fixed-channel pipetting modules support 1– 96 pipette heads.
- 1-1000uL range with liquid-level detection & droplet prevention control(DPC).



Single-channel



Fixed 8-channel



Fixed 24-channel



Fixed 96-channel

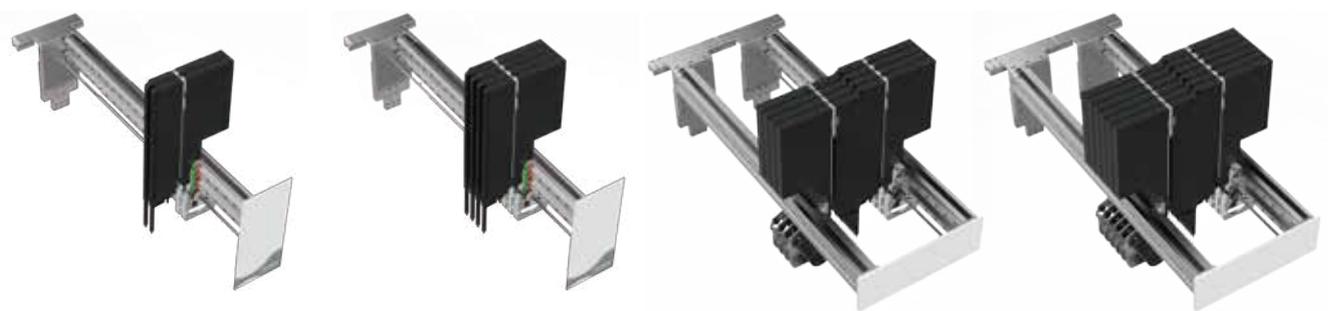
2) Single-Channel Pipetting Modules

- The **Pogo Pin** quick-connect design supports detachable pipetting channels, pipette heads, and modules, allowing the machine to be disassembled and reassembled like building blocks, making after-sales maintenance easier.
- Long Life Cycle Seal (**LLCS**): Innovative improvements in the sealing design giving the cartridge head all for over 300,000 uses before needing replacement.



3) Single-Channel Pipetting Modules Combination

- Dual-channel (pitch: 18 mm)
- Flexible 4-channel (pitch: 18 mm)
- Flexible 8-channel (pitch: 9 mm)
- Flexible 12-channel (pitch: 9mm)



4) MFA Technology:

Freely configurable combinations of fixed-channel pipetting modules and single-channel pipetting modules.



5) Adaptive Force Gripper:

- **Accurate force-controlled gripper:** Gripper force ranging from 1 to 16N supports the transfer of various consumables.
- **Configurable finger directions:** Capable of accessing peripheral devices to enable a huge array of process automation possibilities.



6) MFA Technology:

Freely configurable combinations of fixed-channel pipetting modules, single-channel pipetting modules, and adaptive force gripper modules.



Based on application requirements, users can choose between single **MFA** or dual **MFA** configurations, flexibly selecting fixed-channel pipetting modules, flexible-channel pipetting modules, and combining with adaptive force gripper modules. This versatile combination not only covers from basic operations to high-throughput operations, but also significantly enhances the efficiency and automation level of complex experimental workflows.

Flexible Pipetting Modules Series

Order No.	Description
01N	Single-channel pipetting module
02N	Dual-channel pipetting module
04N	Flexible 4-channel pipetting module
08N	Flexible 8-channel pipetting module
012N	Flexible 12-channel pipetting module
01G	Single-channel pipetting module & Gripper
02G	Dual-channel pipetting module & Gripper
04G	Flexible 4-channel pipetting module & Gripper
08G	Flexible 8-channel pipetting module & Gripper

MFA Series for Mid-Throughput Solution

Order No.	Description
80N	Fixed 8-channel pipetting module
81N	Fixed 8-channel & Single-channel pipetting module
82N	Fixed 8-channel & Dual-channel pipetting module
84N	Fixed 8-channel & Flexible 4-channel pipetting module
A0N	Fixed 24-channel pipetting module
A2N	Fixed 24-channel & Dual-channel pipetting module
A4N	Fixed 24-channel & Flexible 4-channel pipetting module
80G	Fixed 8-channel pipetting module & Gripper
81G	Fixed 8-channel & Single-channel pipetting module & Gripper
82G	Fixed 8-channel & Dual-channel pipetting module & Gripper
84G	Fixed 8-channel & Flexible 4-channel pipetting module & Gripper
A0G	Fixed 24-channel pipetting module & Gripper
A2G	Fixed 24-channel & Dual-channel pipetting module & Gripper
A4G	Fixed 24-channel & Flexible 4-channel pipetting module & Gripper

MFA Series for High-Throughput Solution

Order No.	Description
96N	Fixed 96-channel
96G	Fixed 96-channel pipetting module & Gripper

Tube Rotation and Gripping Module

Order No.	Description
R2N	Dual-channel
R4N	Flexible 4-channel

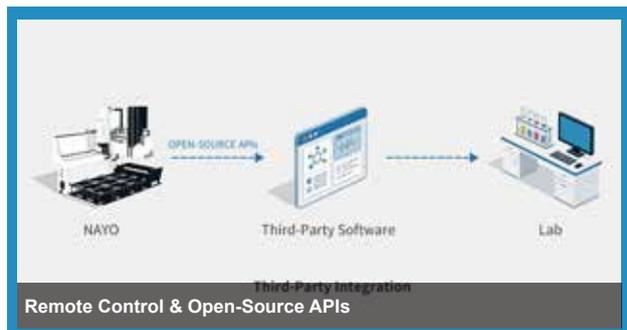
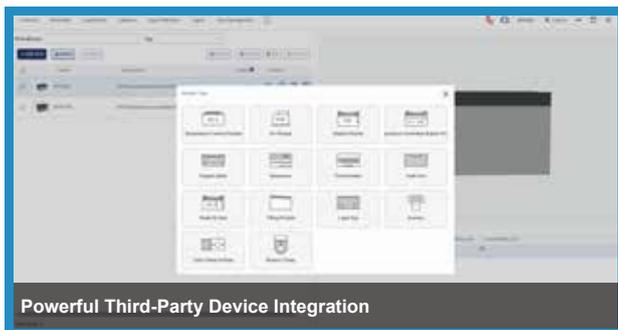
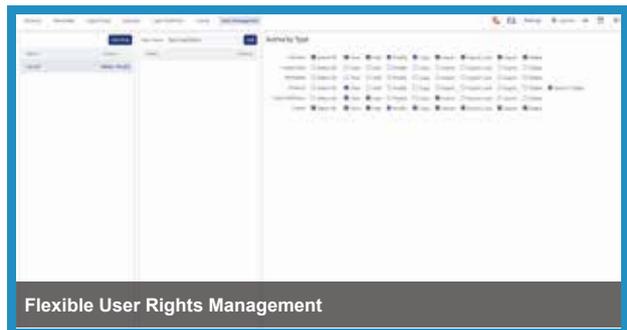
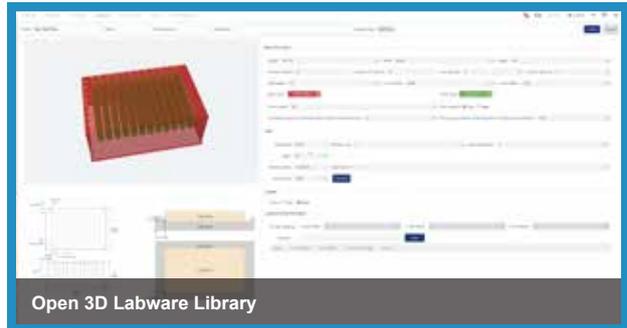
I On-Deck Module



	Heater-Shaker Module			Temperature Control Module	Temperature-Control Shaker Module			Shaker Module		
Mixing Frequency Range	200 - 2000 rpm	200 - 3000 rpm	200 - 5000 rpm	/	200 - 2000 rpm	200 - 3000 rpm	200 - 5000 rpm	200 - 2000 rpm	200 - 3000 rpm	200 - 5000 rpm
Mixing Orbit	3 mm	2 mm	1.2 mm	/	3 mm	2 mm	1.2 mm	3 mm	2 mm	1.2 mm
Control Range	RT+5 - 99°C			0 - 120°C	4 - 99°C			/		
Heating Rate	25-95°C ≥ 12 K/min			4-21°C ≥ 20 K/min 21-95°C ≥ 8 K/min	4-21°C ≥ 14.5 K/min 21-95°C ≥ 11 K/min			/		
Cooling Rate	/			95-21°C ≥ 11 K/min 21-4°C ≥ 6 K/min	95-21°C ≥ 11 K/min 21-4°C ≥ 3 K/min			/		
Temperature Uniformity	≤ ± 0.5°C at 37°C ≤ ± 0.5°C at 45°C ≤ ± 1°C at 75°C ≤ ± 1°C at 95°C			≤ ± 1°C at 4°C ≤ ± 0.5°C at 15°C ≤ ± 0.6°C at 37°C ≤ ± 0.6°C at 40°C ≤ ± 2°C at 90°C	≤ ± 1°C at 4°C ≤ ± 1°C at 15°C ≤ ± 1°C at 37°C ≤ ± 1°C at 40°C ≤ ± 2°C at 90°C			/		

More than 240 configurations can be provided based on application requirements, improve your lab efficiency and empower professionals to overcome challenges in sample processing.

Software



Based on FAN to meet your increasingly complex
efficiency and empower your researchers and clinical
processing.

Next
Generation
Sequencing

Synthetic
Biology



Proteomics



Molecular
Biology



Drug
Discovery

Clinical
Diagnostics

Biobanking

Cell Biology



Toxicology



YouTube



LinkedIn



Website