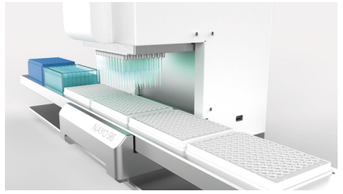
APPLICATIONS

Routine Liquid Handling

Routine liquid handling tasks include transferring liquids between reservoirs, centrifuge tubes, and 96-well plates, replicating samples within a 96-well plate, transferring liquids between 96-well plates and 384-well plates, and other common applications such as cell culture, compound screening, PCR, and qPCR system setup.

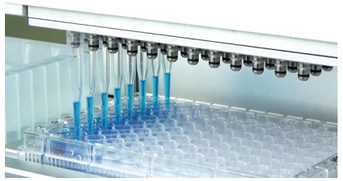


Continuous Dispensing

Continuous dispensing involves aspirating from one well and dispensing the liquid into multiple wells within a plate or across multiple plates. This technique is commonly used in applications such as aliquoting reagents, adding reagents to multiple wells, and other related tasks in various assay setups.

Serial Dilution

Serial dilution refers to the process of diluting a sample or reagent by dispensing varying volumes into a series of wells, creating a gradient of concentrations. This technique can be performed with or without changing the tips and is commonly used in applications such as ELISA assays, microbial testing, and other related experiments.



Ingenious Design for 384-Well Plate Liquid Handling

The meticulously designed liquid handling system for 384-well plates allows for precise transfer of liquids from reservoirs or 96-well plates to 384-well plates. It also enables the transfer of liquids between multiple 384-well plates.

APPLICATIONS

Shuttles	Part No.	Pipette Volume	Minimal Pipetting Volume	Tips
4	N96-204S	1-20μL	1μL	Automation Tips
	N96-2004S	5-200μL	5μL	
6	N96-206S	1-20μL	1μL	
	N96-2006S	5-200μL	5μL	

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NAYO

Fully Automatic Sample Processing System

N96 Series

96-channel Fully Automated Liquid Workstation

Precision Speed Flexibility

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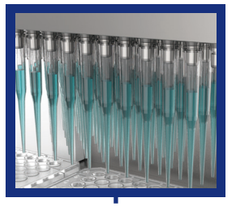
N96 Series

96-channel Fully Automated Liquid Workstation

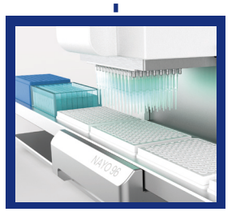
Specifications	N96-204S/206S	N96-2004S/2006S
Pipetting Volume	1-20μL	5-200μL
Dispensing Precision	20μL ± 1.0%	200μL ± 1.0%
	10μL ± 1.0%	100μL ± 1.0%
	2μL ± 5.0%	20μL ± 2.0%
	1μL ± 10.0%	5μL ± 5.0%
Dispensing Accuracy	CV ⩽ 2.0%	CV ⩽ 2.0%
Resolution	0.1μL	
Format	SBS plates, 96-well or 384-well	
Technical principle	Air displacement	
Dimensions(mm)	L(600/885)×W285×H445	



96-channel liquid handling module.

The pipetting module operates on the principle of air displacement and has been extensively tested for reliable sealing and durability. It ensures a perfect seal for each pipetting channel, eliminating the need for additional assistance when loading or ejecting entire boxes of pipette tips.

The 1-20 μl range provides accurate pipetting solutions for small volume transfers, while the 5-200 μl range is suitable for routine operations in most laboratories. With the capability to simultaneously pipette in all 96 channels, it allows for rapid aspiration and dispensing of liquids in a 96-well plate, significantly outperforming manual 8-channel pipettes with a speed increase of over 12 times.



Two options for plate capacity and high-level automation

You have the flexibility to choose between two options for the number of plate positions: 4/6 and effortlessly send the pre-configured experimental workflow to the workstation with a single click. The pipetting module and plate deck will move automatically, achieving a high level of automation for a "hands-free" fully automated liquid handling process.

Intuitive Experimental Workflow Editing

Our software, based on the Android system, provides a user-friendly and intuitive interface. It offers an unlimited number of experiment lists and various preset pipetting modes. Users have the freedom to adjust the positions for aspiration and dispensing as desired.

Consumables

NAYO brand tips have undergone rigorous compatibility testing, ensuring excellent sealing and high pipetting accuracy. Additionally, the N96 liquid handling workstation is compatible with BECKMAN and Axygen workstation tips.

Safe to Use, Compact in Size

All electronic components are integrated inside the machine, converting 220V AC power to a safe 24V voltage to ensure the safety of the device. It features a compact size that allows it to fit into standard-sized laminar flow hoods, safety cabinets, and fume hoods.

96-channel Fully Automated Liquid Workstation