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INNOSMART® D8

Flexible 8-channel Fluid Workstation

Flexible 8-channel Fluid Workstation

INNOSMART® D8

- Small footprint, 143*99*95(cm) / 56*39*37(inches)
- Integrated modular design for end-to-end workflows
- Enhanced lifetime with stainless steel or ceramic surface
- Standard X-Y-Z axes and pipetting module, maintenance free
- Flexible workflow editing to facilitate operation and validation

1 Top Module

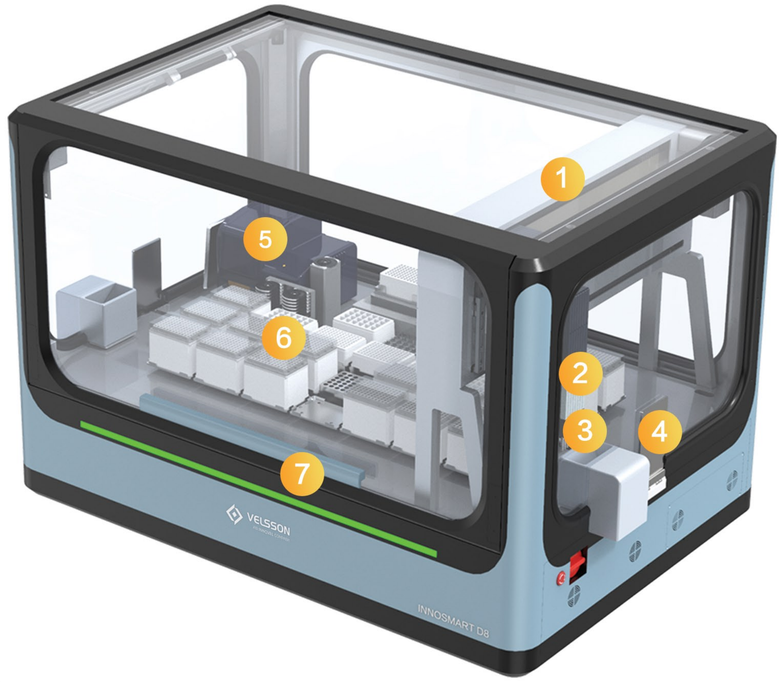
- Easy-cleaning flat structure
- Flexible dual 4-channel modules
- Precise motion with dual planar motors
- Optional laminar flow hood

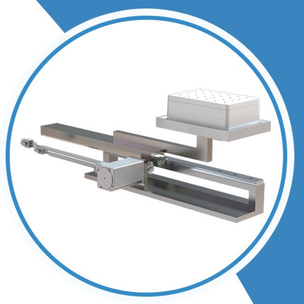
2 4-channel Pipetting Module

- Dual robotic grippers for 360° operation
- 4 independent channels' Z-axis motion
- Independent spacing control between channels
- Automatic liquid detection, tracking and pipetting
- Automatic and precise pipetting with high-speed planar motors

3 Solid-state Pipetting Module

- High precision of 1~1000μL pipetting
- Solid-state module(not syringe), maintenance free



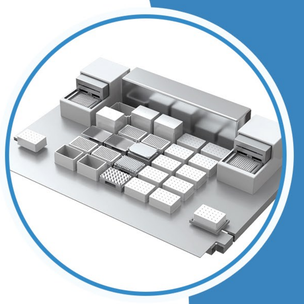


4 Consumable Transfer Module

- Highly efficient consumable transfer with storage units, incubators, analytical workstations, etc.

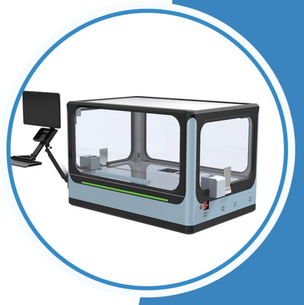
5 Modular Process Configuration

- Smart connection with PCR instruments, microplate readers, counters, sealers, peelers, etc.
- Temperature control shaker, etc.



6 Benchtop Component

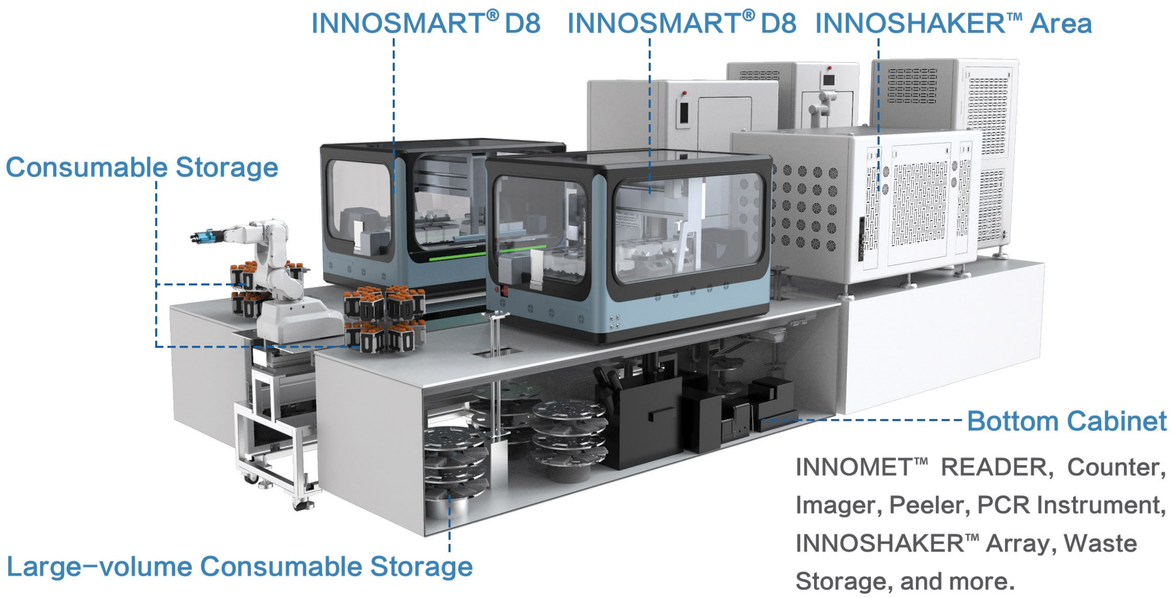
- Dual robotic grippers for flexible consumable transfer

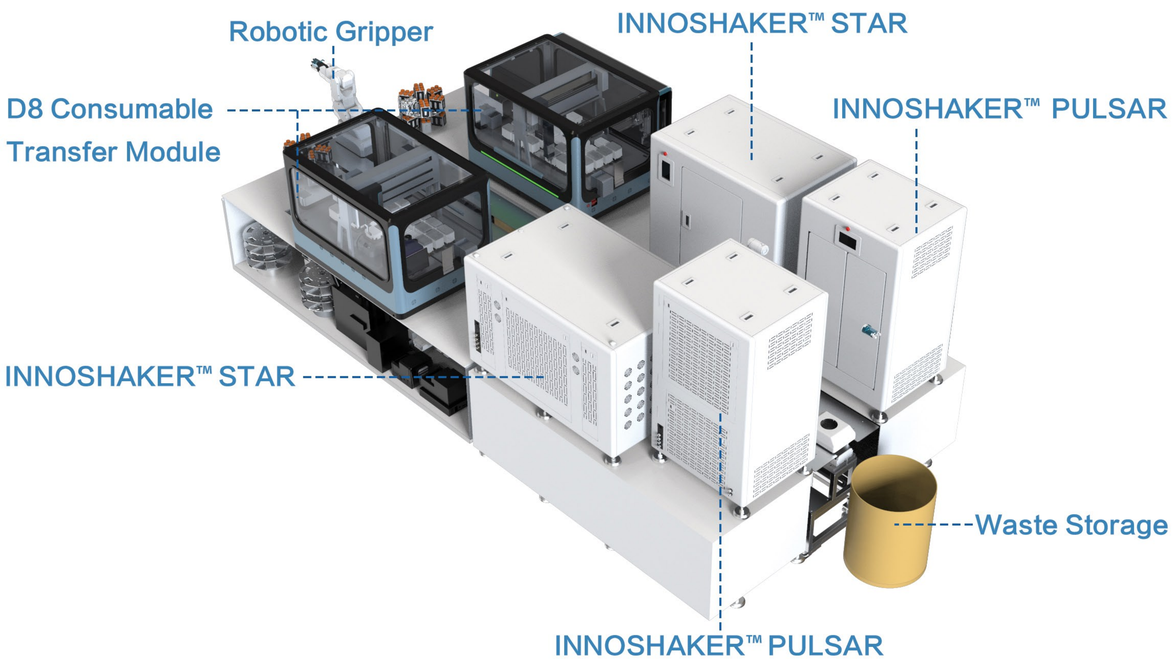


7 Equipment Front Door

- Safe operation with nitrogen gas spring-assisted front door

Distributed Agile Automation Solution





Applications

Gene Library	Primer Mix	First Round PCR	Second Round PCR
Chemical Reaction	PCR Product Purification	Plasmid Mini Prep	DMPK Analytics
Mammalian Cell Protein Expression and Screening	LC-MS Sample Prep	Compound Synthesis and Screening	Prokaryotic Protein Expression and Screening

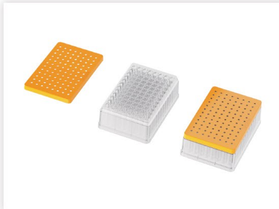
Complimentary Consumables

Tip Box

1 μL, 10 μL, 50 μL, 300 μL, 300 μL(extended), 1,000 μL filter tips, DNase/RNase free and nonpyrogenic

Glass Tip

Highly efficient operation for acidic or alkaline corrosive liquid and organic solvent



Culture Well Plate

Convenient culture for 24/48/96 well plates

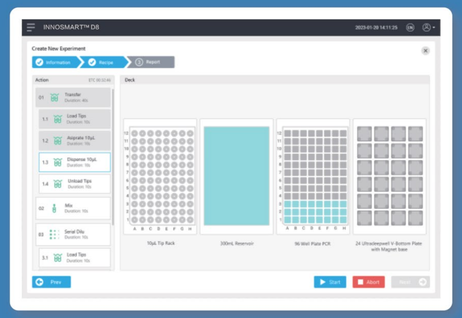
PCR Plate

Wide application of analytical plates, including PCR plates, ELISA plates, counting plates, etc

Specifications

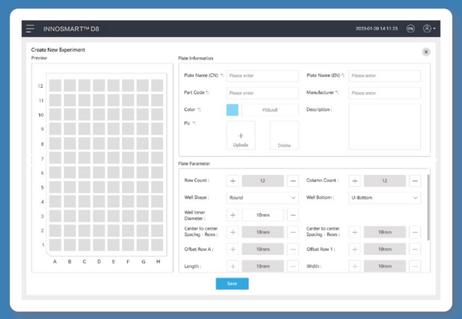
Specifications	Description	**INNOSMART® D8**
	INNOVEL Tips	1μL, 10μL, 50μL, 300μL, 300 μL(extended), 1,000μL
		Compatible with USP Class VI and ANSI, DNase/RNase free, nonpyrogenic, and sterilized by gamma irradiation
		Glass tips for acidic or alkaline corrosive liquid and organic solvent
	Pipetting Volume	1~1,000μL
	Pipetting Precision	≤5% (1~10μL), ≤3% (10~50μL), ≤1.5% (50~300μL), ≤0.5% (300~1,000μL)
		Independent and adjustable channel spacing, and independent Z-axis motion
		Intelligent analytics of tip-loading force and loading effectiveness
		Automatic liquid detection and tracking
	X-Y Axis Motion	800mm/s Maximum Speed , within 0.01mm repeated motion precision
	Z Axis Motion	300mm/s Maximum Speed , within 0.02mm repeated motion precision
		Dust-free and lubricant-free motion system
	Holder Number	20 (Standard), 40 (Maximally Extended)
		Industrial-grade built-in controller, and 15-inch touchscreen display
		Graphical workflow editing software
		Standard lab software communication interface
	Optional Units	Sealer, peeler, PCR, microplate reader, spectrophotometer, imager, counter and magnetic bead-based purification unit
		UV disinfection and optional laminar flow

Integrated Software System



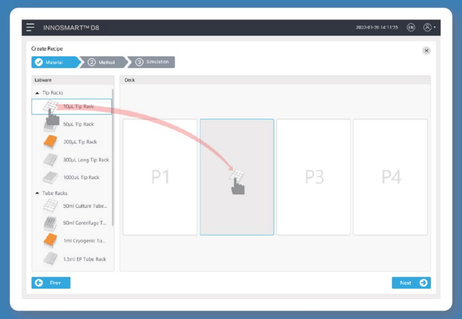
Workflow Editing

- Standard process library
- Graphical process editing and optimization
- Real-time process monitoring and control
- Agile evolution of new processes based on templates



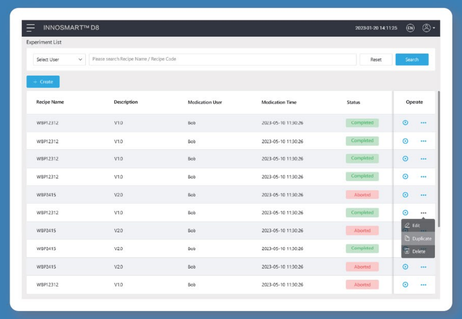
Equipment Monitoring and Operation

- Fluid material feeding
- Solid consumable feeding
- Consumable status management
- Historical liquid handling data
- Historical sample transfer data
- Module motion monitoring



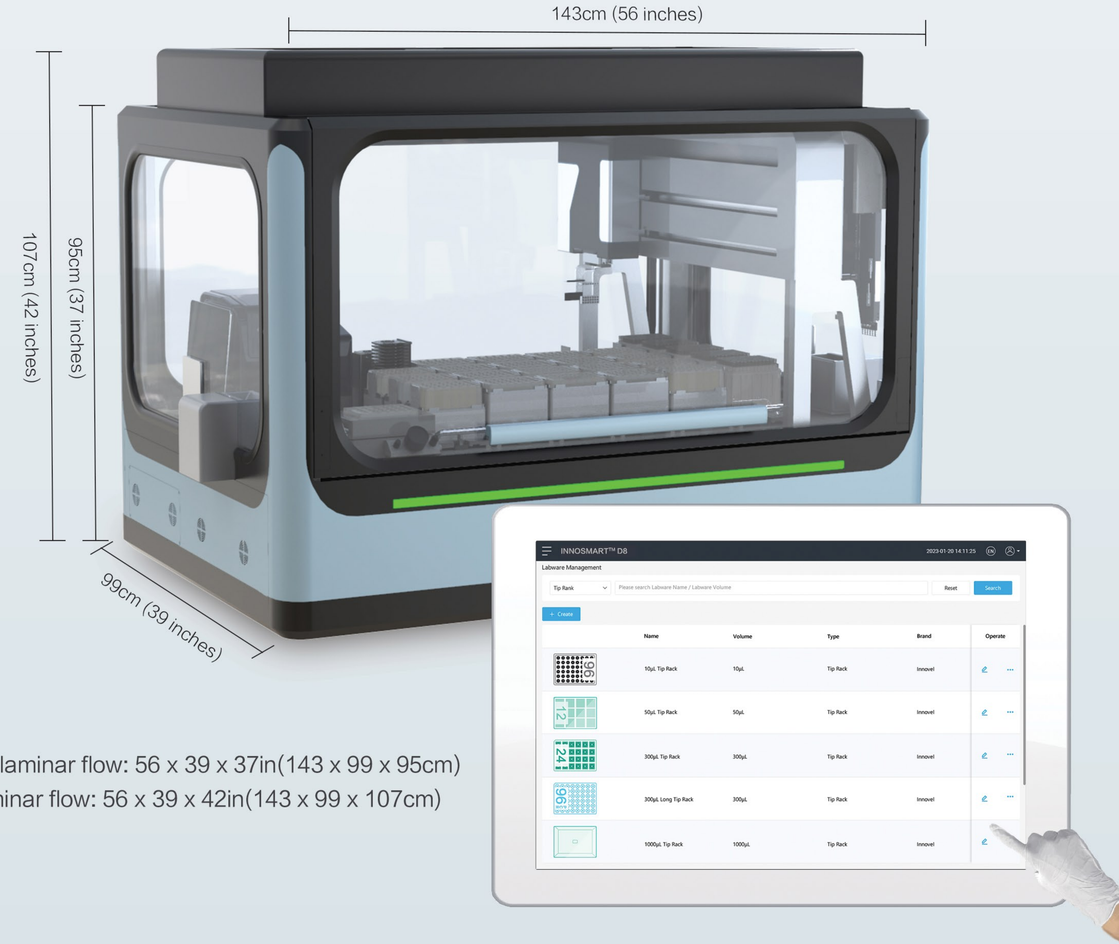
Equipment Calibration(Manual)

- Fluid unit calibration
- Motion unit calibration
- Agile process test

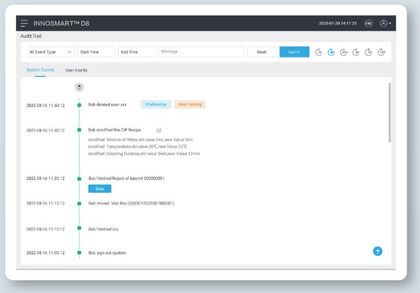


Data Storage

- Analytical sample data
- Operation data

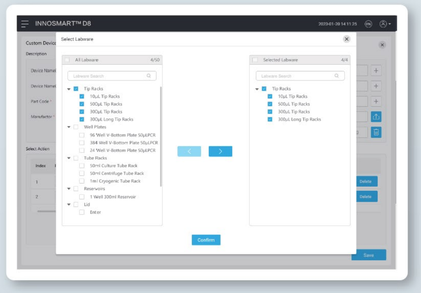


Without laminar flow: 56 x 39 x 37in(143 x 99 x 95cm)
With laminar flow: 56 x 39 x 42in(143 x 99 x 107cm)



Log Notification

- Login Notification
- Consumable loading information
- Operation event information
- Equipment warning information
- Equipment error information



System Setting

- Personnel access control
- System parameter configuration