

INNOSMART® D8 Benchtop Liquid Workstation

Overview

The INNOSMART® D8 is a fully automated benchtop 8-channel liquid workstation featuring high throughput, high precision, high flexibility, and excellent cost-effectiveness.

Product Certifications

ISO 9001
ISO 13485

Product Features

- Small footprint: 135 x 99 x 95 cm
- Integrated modular design supporting end-to-end workflows.
- Stainless steel or ceramic surface for enhanced durability.
- Standard X-Y-Z axis and pipetting module — maintenance-free.
- Flexible workflow editing for ease of operation and validation.
- Laminar flow protection (optional) Class A laminar flow environment for laboratory safety.
- 21 CFR Part 11 compliant.
- Intelligent exception handling.

Product Information & Specifications

Description	Specification
Model	INNOSMART® D8
Description	Flexible 8-channel liquid workstation
Dimensions (L x W x H)	Without laminar flow: 135 x 99 x 95 cm With laminar flow: 135 x 99 x 107 cm
Weight	Without laminar flow: 200 kg With laminar flow: 225 kg
Power Supply	110/220 V, 50/60 Hz
Top Module	<ul style="list-style-type: none"> • Easy-to-clean flat deck structure • Flexible dual 4-channel module • Dual planar motors for precise motion • Optional laminar flow hood
4-Channel Pipetting Module	<ul style="list-style-type: none"> • Dual robotic gripper with 360° operation. • Independent Z-axis motion for all 4 channels. • Independently adjustable channel spacing. • Automatic liquid detection, tracking, and pipetting. • High-speed planar motor for automatic precision pipetting.

Description	Specification
Solid-State Pipetting Module	<ul style="list-style-type: none"> High precision pipetting from 1– 1,000 μL. Solid-state module (non-syringe) maintenance-free.
Consumable Transfer Module	<ul style="list-style-type: none"> Efficient consumable transfer supporting storage units, incubators, analytical workstations, and more.
Modular Workflow Configuration	<ul style="list-style-type: none"> Smart integration with PCR instruments, microplate readers, counters, plate sealers, peelers, temperature-controlled shakers, and more.
Benchtop Components	<ul style="list-style-type: none"> Dual robotic gripper for flexible consumable transfer.
Equipment Front Door	<ul style="list-style-type: none"> Nitrogen spring-assisted front door for safe operation.
Specifications	
VELSSON Tips	<ul style="list-style-type: none"> Available in 1 μL, 10 μL, 50 μL, 300 μL, 300 μL (extended), and 1,000 μL.
	<ul style="list-style-type: none"> Compliant with USP Class VI and ANSI standards; DNase/RNase-free, pyrogen-free, gamma-irradiation sterilized.
	<ul style="list-style-type: none"> Glass tips available for acidic, alkaline, or organic solvent applications.
Pipetting Volume	<ul style="list-style-type: none"> 1–1,000 μL
Pipetting Accuracy	<ul style="list-style-type: none"> $\leq 5\%$ (1–10 μL), $\leq 3\%$ (10–50 μL), $\leq 1.5\%$ (50–300 μL), $\leq 0.5\%$ (300–1,000 μL)
Independent and adjustable channel spacing with independent Z-axis motion.	
Intelligent analysis feedback for tip loading force and loading performance.	
Automatic liquid detection and tracking.	
X-Y Axis Motion	<ul style="list-style-type: none"> Maximum speed: 800 mm/s; Repeat positioning accuracy ≤ 0.01 mm.
Z-Axis Motion	<ul style="list-style-type: none"> Maximum speed: 300 mm/s; Repeat positioning accuracy ≤ 0.02 mm.
Dust-free, lubrication-free motion system.	
Number of Racks	<ul style="list-style-type: none"> Standard: 20; Expandable to 40.
Industrial-grade built-in controller with 15-inch touchscreen display.	
Graphical workflow editing software.	
Standard laboratory software communication interface.	
Optional Units	Plate sealer, plate peeler, PCR instrument, microplate reader, spectrophotometer, imager, cell counter, and magnetic bead purification unit.
UV decontamination and optional laminar flow.	
Automated Control	
Certifications	