FLO i8®

Simplify Your Labwork

The FLO i8® Liquid Handler is ideal for optimizing your protocols and bench work, allowing you to focus on the research, the science, and new innovations and breakthroughs.

Intuitive software, flexible hardware, and intelligent pipetting guarantees precise liquid transfers with no need to specify:

- source volumes,
- labware geometries, or
- liquid properties.

Benefits

- **Incredibly easy software** - Designing your protocol has never been easier.

- **Flexible** - Simplify all of your tube or plate-based labwork using the variable spanning channels and pipetting range of 0.5 to 1000 µL.

- **Precise** - Reduce variability in your workflows and increase your traceability and confidence in your experiments.

- **Intelligent** - Automatically sense labware, detect and track liquid levels, and optimize liquid transfers in real time with no prior input of liquid properties.

Save Time on Low Volume Transfers

Aspirate and dispense any viscosity liquid with high precision (CV 10% @ 0.5 µL).

Flexible to Fit Your Workflow and Budget

Configurable tip use settings; Compatible with any SBS-format microplate.

Go from Zero to Running Experiments in Minutes

No need for any programming or understanding difficult coding languages.

Broad Range of Applications

- Assay Development and Design of Experiment (DoE)
- Enzyme-Linked Immunosorbent Assays (ELISA)
- PCR Workflows
- Cell Culture and Bead-Based Assays
- NGS Library Preparation
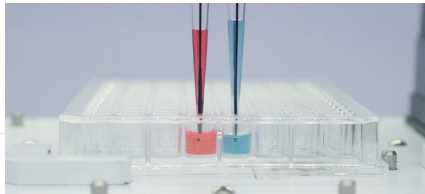- Nucleic Acid and Protein Extraction
- Screening Assays (e.g., COVID)
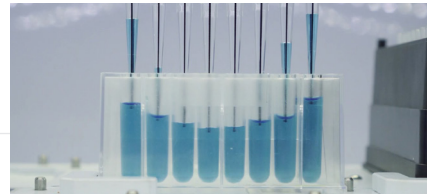
Technology

Automatic Liquid Class (ALC)
No need to specify liquid classes. Automatically detect differences in liquid class and adjust flow rate on the fly to optimize transfer precision.
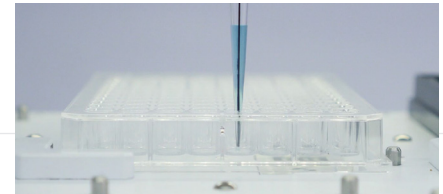
Liquid Level Detection and Tracking
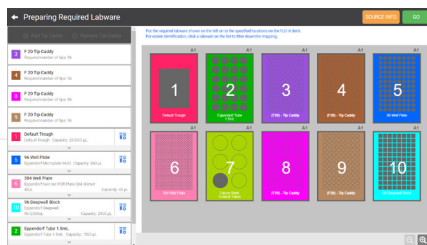Patented tip technology enables automatic detection of liquid level and dynamic level tracking while pipetting.

Sense of Touch
Automatically detect the bottom and sides of the well without prior specification of labware geometry.
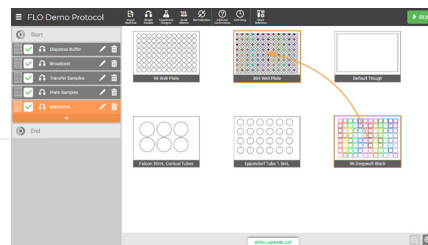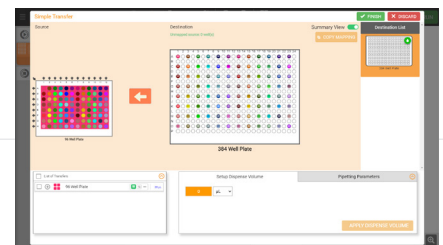
Software

The FLO i8 features intuitive, easy to use software which enables quick and hassle-free setup of protocols in minutes. The system is flexible and designed for both low-throughput and high-throughput applications.

Flexible Deck Design. Up to 10-Labware positions are available on the deck.

Visualize workflow progression.

Easy and intuitive setup. Drag and drop transfer definition.

Technical Specifications

Hardware Features

Channel configuration	8 Fully-independent liquid handling channels
Tip variety	FORMULATRIX® brand disposable F20, F200 and F1000 Next-Level Tips®

Liquid Handling and Labware Features

Volume range	0.5 µL to 20 µL (F20), 5 µL to 200 µL (F200), 10 µL to 1000 µL (F1000)
Liquid viscosity range	Any type of liquid
Dispense mode	Air displacement via in-line pressure regulation
Liquid Level Detection	Yes, pressure-based and resistance-based detection
Transfer precision	10% CV at 0.5 µL
Microplate compatibility	Standard SBS Plate format (Contact us for custom options)

User Interface Specifications

Browser	Google chrome version 90

Electrical Specifications

	110-240 V, 50-60 Hz, 120 W typical (500 W max)

Operating Requirements

Temperature	21 °C ± 5 °C (70 °F ± 9 °F)

Accessories		Part Number
FLO i8® Liquid Handling System		800000
Next-Level Tips® - Sold in Packs Containing 10 Boxes of 96 Tips	F20 Next-Level Tips® Pack	800001
	F200 Next-Level Tips® Pack	800002
	F1000 Next-Level Tips® Pack	800003
Autoclave-Safe Tube Racks	1.5 mL Tube Rack (holds 24 tubes)	800004
	15 mL Tube Rack (holds 16 tubes)	800006
	50 mL Tube Rack (holds 6 tubes)	800005

FLO i8 Physical Dimensions

- Width: 780 mm (30.7")
- Height: 878 mm (34.6")
- Depth: 650 mm (25.6")
- Weight: 75 kg (165 lbs)

Front

Side

878 mm (34.6")

878 mm (34.6")

780 mm (30.7")

650 mm (25.6")