L.DROP

Dynamic. Accurate. Connected.

Non-contact Dispensers

L.DROP

A contemporary liquid handler for reproducible genomics and drug discovery.

The L.DROP Liquid Handler provides users with a connected experience that is unrivaled by traditional liquid handling instruments.

The platform is ideal for laboratories looking to leverage state-of-the-art automation to increase productivity, reduce errors, streamline workflows, optimize assay performance, and eliminate repetitive tasks.

- Vision-based deck-calibration for a quick and easy installation.
- Cloud-based protocol generation allows any researcher to program complex methods and collaborate with others regardless of automation experience.
- Automatic liquid class creation enables a greatly simplified optimization and implementation process for protocols.
- Dynamically verified volumetric accuracy and precision for a wide range of samples, reagents, and buffers guarantees the generation of trustworthy data
- Vision-based labware detection ensures that users cannot make mistakes placing labware and setting up runs
- On-demand sample traceability provides visibility to the sample and reagent contained in any well at any point in the protocol.
- Thoughtful error recovery options protect precious samples and costly reagents from waste.

Key Benefits

- Swappable 8-channel pipetting head with a volume range from 1 – 1000 uL.
- Zero-force tip attachment for reliable and wear-free hardware.
- High-resolution Camera for Automated Optical Calibration.
- Algorithms for Automated Liquid Class Creation.
- Pressure and flow Sensors for Real-time Volume Verification.
- Camera with Cloud-based Image Analysis for Deck Verification.
- Real-time deck monitoring to capture video of errors for future troubleshooting and correction.
- Holds up to 20 SBS format microplates, tips, or lids for easy setup and switching between protocols and five integration positions for on-deck thermal control and shaking modules.

Optimized to handle diverse applications.

DISPENDIX has developed a growing library of protocols which are accessible on-demand from the cloud platform.

CELL AND GENE THERAPY /SYNTHETIC BIOLOGY

- Cell culture
- CRISPR Gene Editing
- Protein Characterization
- Protein and Nucleic Acid Quantification

GENOMICS

- Library Preparation for DNA-Seq, RNA-Seq, and Targeted Sequencing
- qPCR Plate Preparation

DRUG DISCOVERY

- Assay Development and Optimization (DoE)
- Immunoassays
- Cell Based Assays
- Biochemical Assays
- High-throughput Screening

GENERAL LIQUID HANDLING

- Serial Dilution
- Reagent Formulation and Aliquoting
- Sample Reformatting
- Cherry Picking
- Normalization and Pooling

Productivity from the cloud down.

The L.DROP is run through an intuitive Cloud-based platform that enables users to build, run, and analyze protocols from anywhere – anytime!

1

Build It

- Build protocols using a straightforward drag and drop interface.
- Program methods that are focused on the scientific method rather than the automation.
- Automatically "fit" protocols to liquid handlers and laboratories of varying configurations and resources.
- Capture instrument specific constraints and iterate rapidly with on-demand simulations rather than trial and error wet-runs.

2

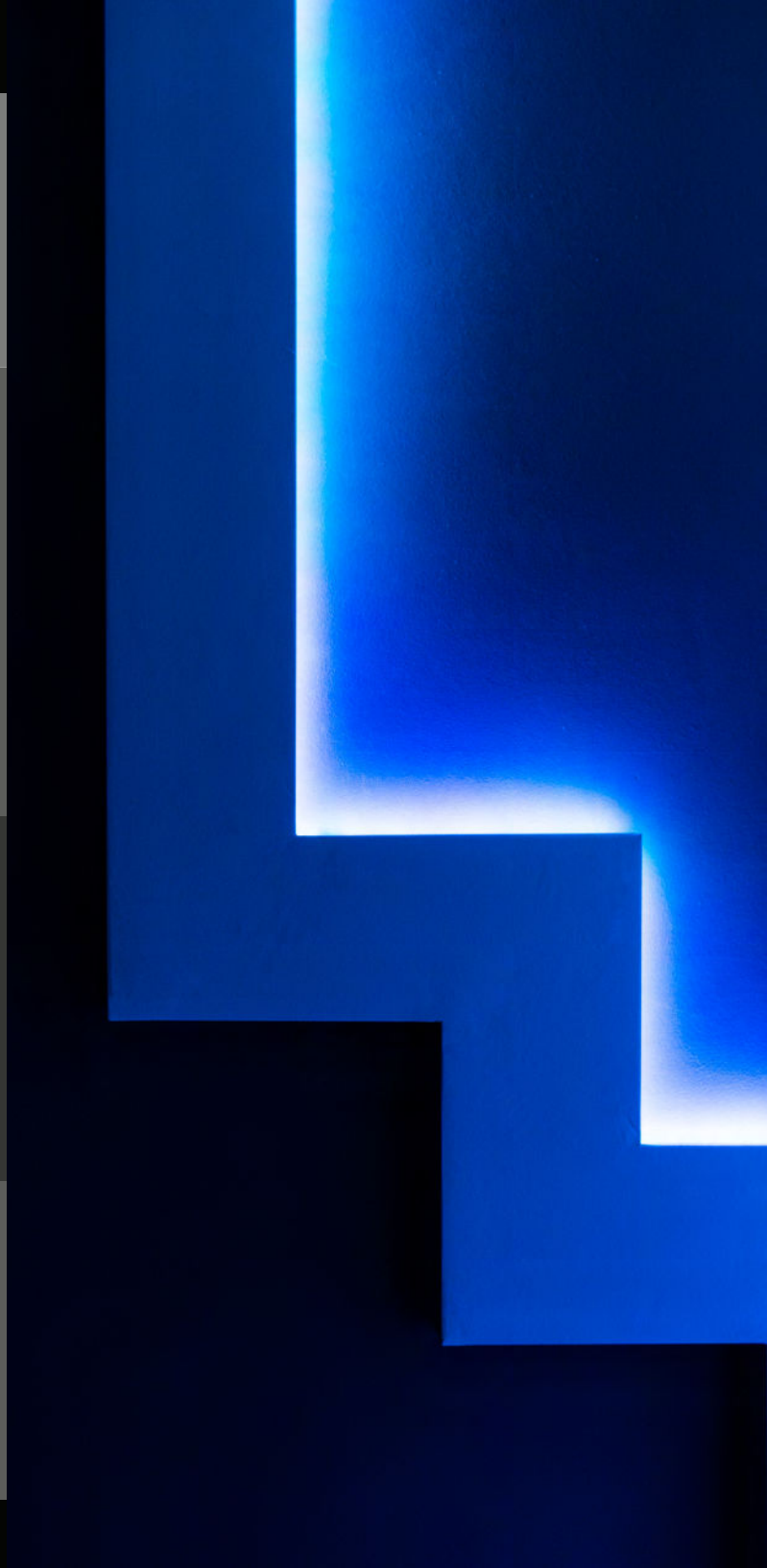
Run It

- Run and optimize protocols from the cloud with the first ever liquid handling experience that does not require you to be tethered to the instrument.
- Monitor workflow status, instrument status, errors, and protocol execution from the comfort of your office or even from home.

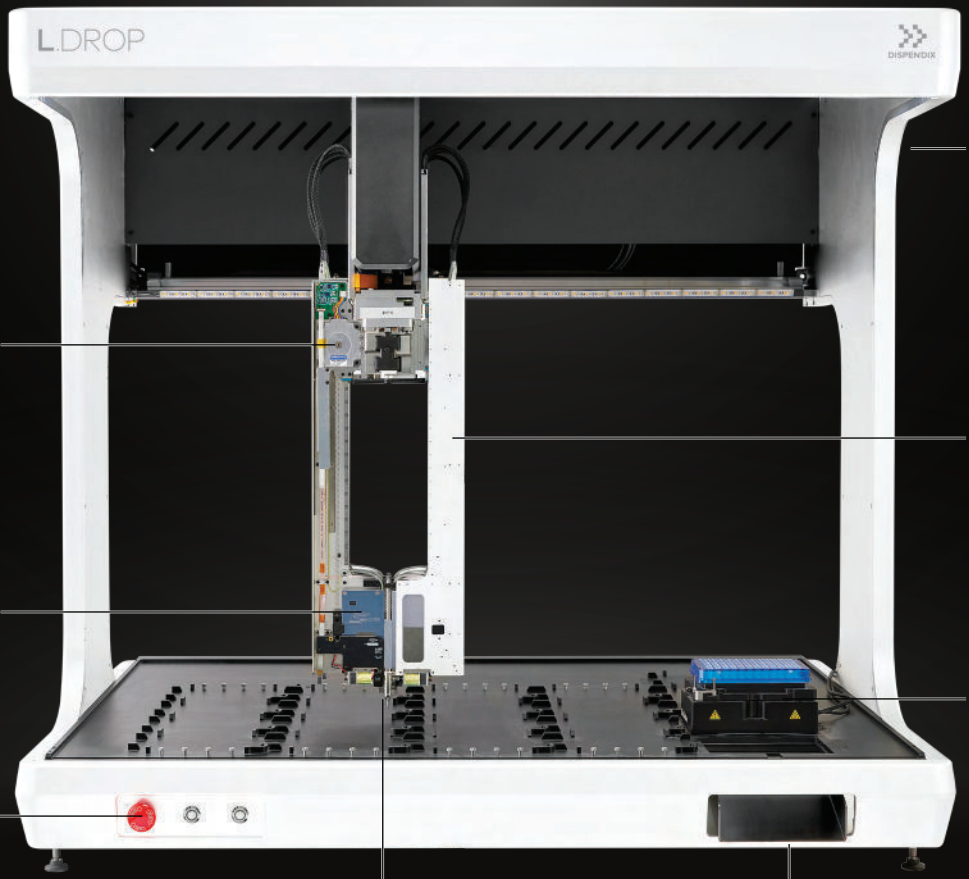
3

Analyze It

- Access data for any sample retroactively through state and liquid tracking information from the cloud.
- Optimize laboratory logistics with visibility to, reagent and consumable consumption.



Connected automation brings productivity and scale to your lab



Seamless Enclosure Fits in Standard Hood

Spanning Channels for Transfers Across Varying Labware

Swappable 8-Channel Pipetting Module

Air Driven Pipetting from 1-1000 uL with Integrated Flow and Pressure Sensors

Built-in Positions for Thermal and Shaking Accessories

Power and Emergency Stop

Zero-force Pipette Tip Attachment

Through-deck Tip Chute

Finally, a user experience focused instrument for liquid handling automation

L.DROP offers cutting-edge technology in automation to enable researchers to program and execute automated liquid handling methods regardless of automation experience.

- Automate deck calibration and liquid classes with support from intelligent sensors
- Build protocols and collaborate with your colleagues from anywhere – anytime!
- Run and aggregate data from all the instruments in your workflow from a single cloud-based platform.
- Generate trustworthy data with real-time volume verification and sample traceability in the cloud.

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