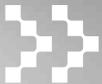


# I.DOT MINI

Fast. Accurate. Small.

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Non-contact Dispensers



# I.DOT MINI

## Brings intuitive automation, precision and speed to every lab in a smaller footprint for accurate results every time.

The I.DOT MINI comes equipped with DropDetection, providing users the ability to detect when users run out of source liquid.

DropDetection is a patented feature that detects and counts every droplet released during a single dispensing run. It's a simple and powerful tool enabling droplet verification and protocol optimization.

This innovative solution, mounted under the source well of the I.DOT MINI features a miniaturized light barrier to detect changes in light intensity as drops pass the photoelectric barrier between the source well and the target plate.

After the dispensing run, DropDetection delivers color-coded results (green for a successful deposit and red for an error) that are conveniently stored in a file for easy access.

This lightweight liquid handler uses a single positive pressure channel to generate droplets as small as 8 nanoliters through a nozzle in the well and can produce up to 100 droplets per second.

## How does the I.DOT MINI work?

I.DOT's approach is precise and accurate noncontact liquid handling tasks. The system uses eight individually controlled positive pressure channels to generate droplets from 8 to 50 nanoliters from a small nozzle at the bottom of each well. Each channel can generate up to 100 droplets per second giving control and speed to the users all while eliminating cross contamination.

### Genomics and proteomics

- Leverages miniaturization, low-volume dispensing and low dead volume.
- Dispenses high-viscosity solutions with ease, enabling rapid next-generation sequencing (NGS) prep.
- Supports a range of polymerase chain reaction (PCR) needs by dispensing master mixes with unparalleled speed and accuracy.
- Dispenses commercially available beads reproducibly across target plates for extraction or clean-ups; reduces settling with high-speed dispensing.

### Dispensing beads

- Dispense commercially available beads reproducibly across your target plates for extraction or clean-ups.

### Assay development

- Miniaturize your cellular assays into a 1536- well plate.
- Dispense up to 96 different components using a different volume in each well with I.DOT MINI's DoE-friendliness.

### Compounds dispensing

- Use I.DOT to dispense small molecules with different dilution series possible.
- Remove variability in liquid handling by back calculating the exact concentration of dispensed drugs using droplet verification.

### Cell dispensing

- Dispense anything from cells in suspension to organoids while maintaining cell viability.

I.DOT MINI automates life science workflows and executes them more efficiently.



## Key Benefits



### Accuracy: Built-in droplet verification

I.DOT MINI's droplet detection has the capability to detect when users run out of source liquid and can verify total dispense value.



### Eliminate carryover and cross contamination

The technology enables droplets to be dispensed into the target plate below the source plate. I.DOT MINI eliminates carryover and cross-contamination.



### Speed

Dispense 10 nanoliters across a 96-well plate in 10 seconds and across a 384-well plate in 20 seconds for 50nl.



### Flexible

Rapidly dispense into any SBS target plate, including 96-, 384- and 1536-well plates of a maximum height of 16 mm.



### Low dead volume

Well reservoir design ensures dead volume < 1  $\mu$ l for H<sub>2</sub>O.



### Large dynamic range

Dispenses 8 nl to 500,000 nl if a single source liquid at a time.

## Easy to use software streamlines your workflow

The I.DOT MINI's automation-friendly software offers built-in convenience, optimizes protocol creation, and lets users import comma-separated values (CSV) files for more complex protocols.

- Touch screen, user-friendly software
- Custom formats
- No programming or looping needed



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