


**DISPEN'DIX**   
A BICO COMPANY



# I.DOT MINI

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Accurate. Fast. Small.



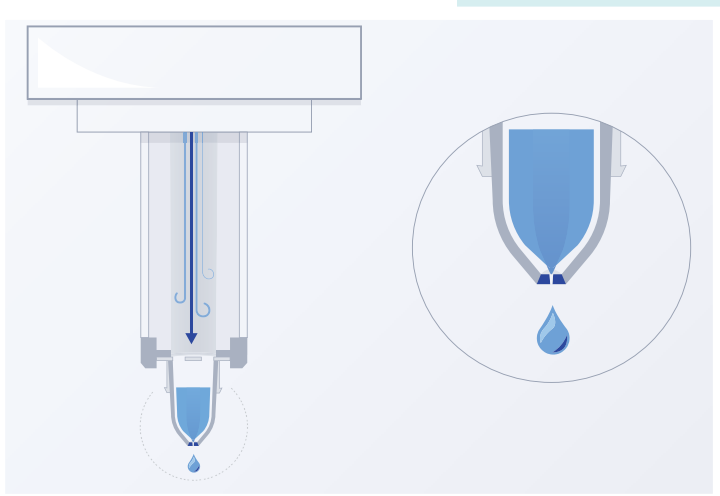
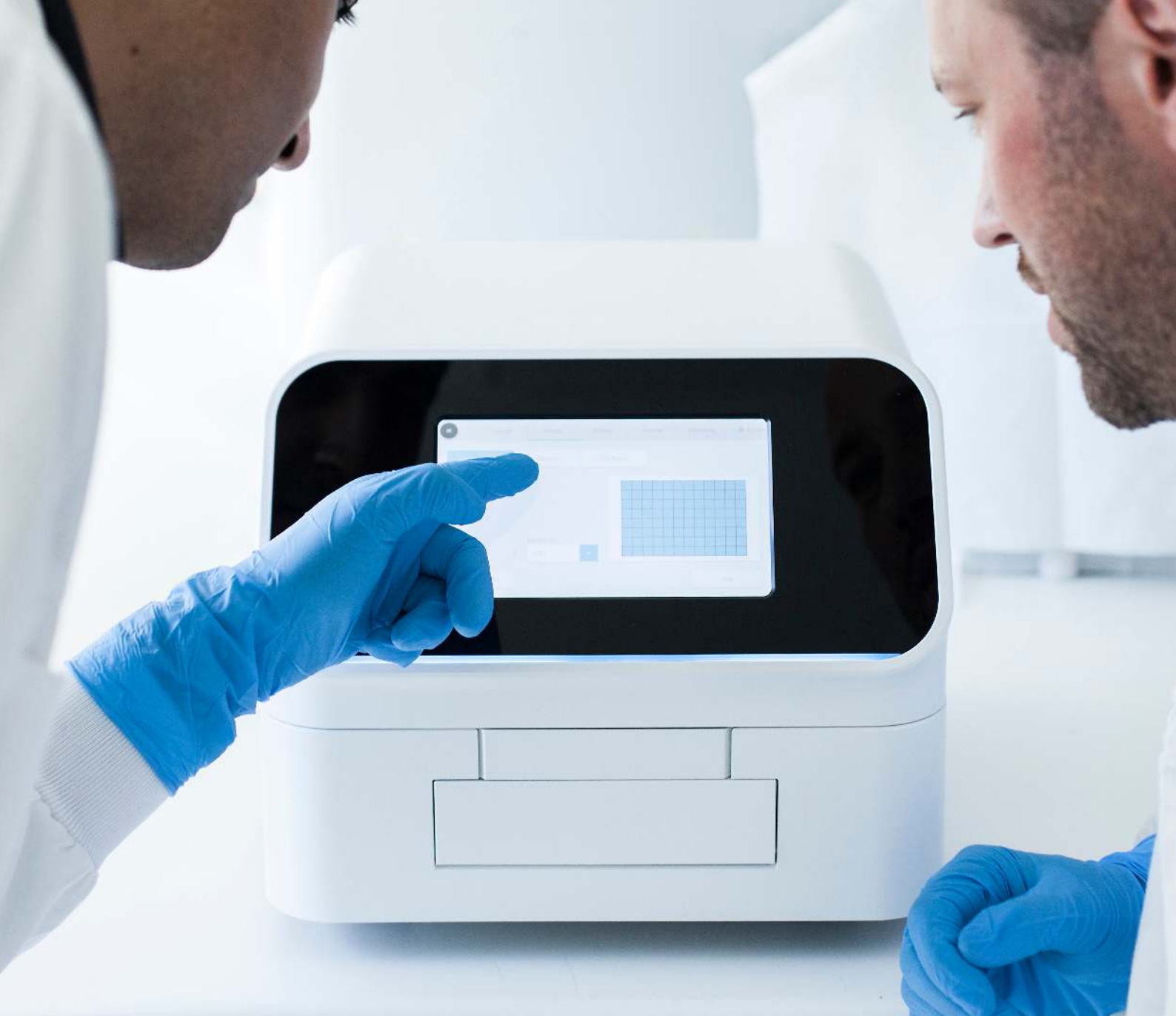
Brings intuitive automation,  
precision and speed to every  
lab in a smaller footprint for  
accurate results every time.

## WHEN EVERY DROP COUNTS

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.

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

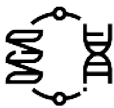
## Genomics and proteomics

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.



## 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.





### 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



### Cell dispensing

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

# 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 cross-over and 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 and deep well plates.



## 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, lets users import comma-separated values (CSV) files for more complex protocols.

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



## We are here for you

DISPENDIX's global team of applications specialists are ready to provide support when you need it, and multiple support packages are available to meet your needs. A member of our team can reach out within hours of receiving your request. We are happy to work by phone, over email, through video chat and on-site to perform installations, repairs and other services. Email us anytime at [support@dispendix.com](mailto:support@dispendix.com)



## DISPENDIX, A BICO COMPANY

DISPENDIX is a young, fast-growing deep-tech startup with products that enable scientists and researchers around the world to make new discoveries in areas such as drug discovery, diagnostics and personalized medicine. Our passion drives us to develop high-tech liquid handling technologies for laboratory automation and life sciences.

In 2018, DISPENDIX became part of BICO, a global leader in the development and delivery of life science solutions. BICO equips thousands of laboratories and scientists worldwide with cutting-edge technologies that enable breakthrough in scientific achievements.