

I.DOT Mini

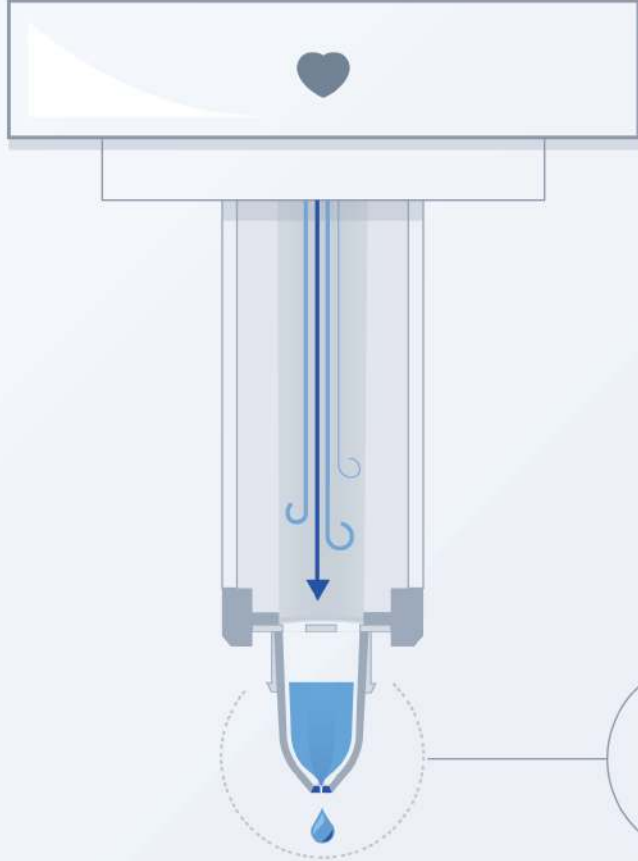
Liquid handling simplified



Featuring Immediate Drop-on-demand Technology (I.DOT), the lightweight I.DOT Mini optimizes noncontact liquid handling tasks to bring intuitive automation, precision and speed to every lab in a smaller footprint.

Learn more at our website
www.cellink.com





Key Features



Noncontact: Enables droplets to be dispensed into the target plate below the source well. The I.DOT Mini eliminates carryover and cross-contamination.



Flexible: Rapidly dispenses into any SBS target plate, including 96-, 384- and 1536-well plates. Complex protocols can be created with the intuitive, user-friendly onboard software; absolutely no coding required.



Powerful Software: Complex dispensing and dilution protocols can be created with the intuitive, user-friendly onboard software, with absolutely no coding required. Features like DropDetection also enable easy quality control.



Low dead volume: The well reservoir design ensures dead volume under 1 μL to conserve valuable reagents and samples.



Versatile: On-demand dispensing of multiple liquid classes, including, but not limited to, aqueous solutions, polymerase chain reaction (PCR) buffer, dimethyl sulfoxide (up to 100%) and glycerol (up to 50%).



Large dynamic range: Dispenses 8 nL to 500,000 nL of a single source liquid at a time.



Speed: Dispenses a 96-well plate in as fast as 20 seconds.

More efficient workflows

The I.DOT Mini is optimized for speed and accuracy, making it ideal for improving efficiency in the following applications:



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.



Cell dispensing

Reproducibly dispense anything from cells in suspension to organoids, while maintaining high cell viability.



Assay development

Miniaturizes **cellular assays** into a 1536-well plate.

Dispenses different volumes in each well. Ideal for **Design of Experiment**.

Easily dispenses controls/dilutions to other liquid handler plates.



Compound dispensing

Dispenses **small molecules** in aqueous solutions or DMSO.





Built-in droplet verification

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.



Built-in software streamlines 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.

- Seamless user-friendly software.
- Custom formats.
- No programming or looping needed.



World-class support

CELLINK's renowned customer support team is committed to achieving your goals. Highly trained I.DOT Mini specialists are ready to provide support when you need them, and multiple support packages are available to suit your circumstances.

Our global network can respond within hours to assist with installations, repairs or maintenance by phone, over email, via video chat or in person.

Scan to learn more



Contact

Email: sales@cellink.com

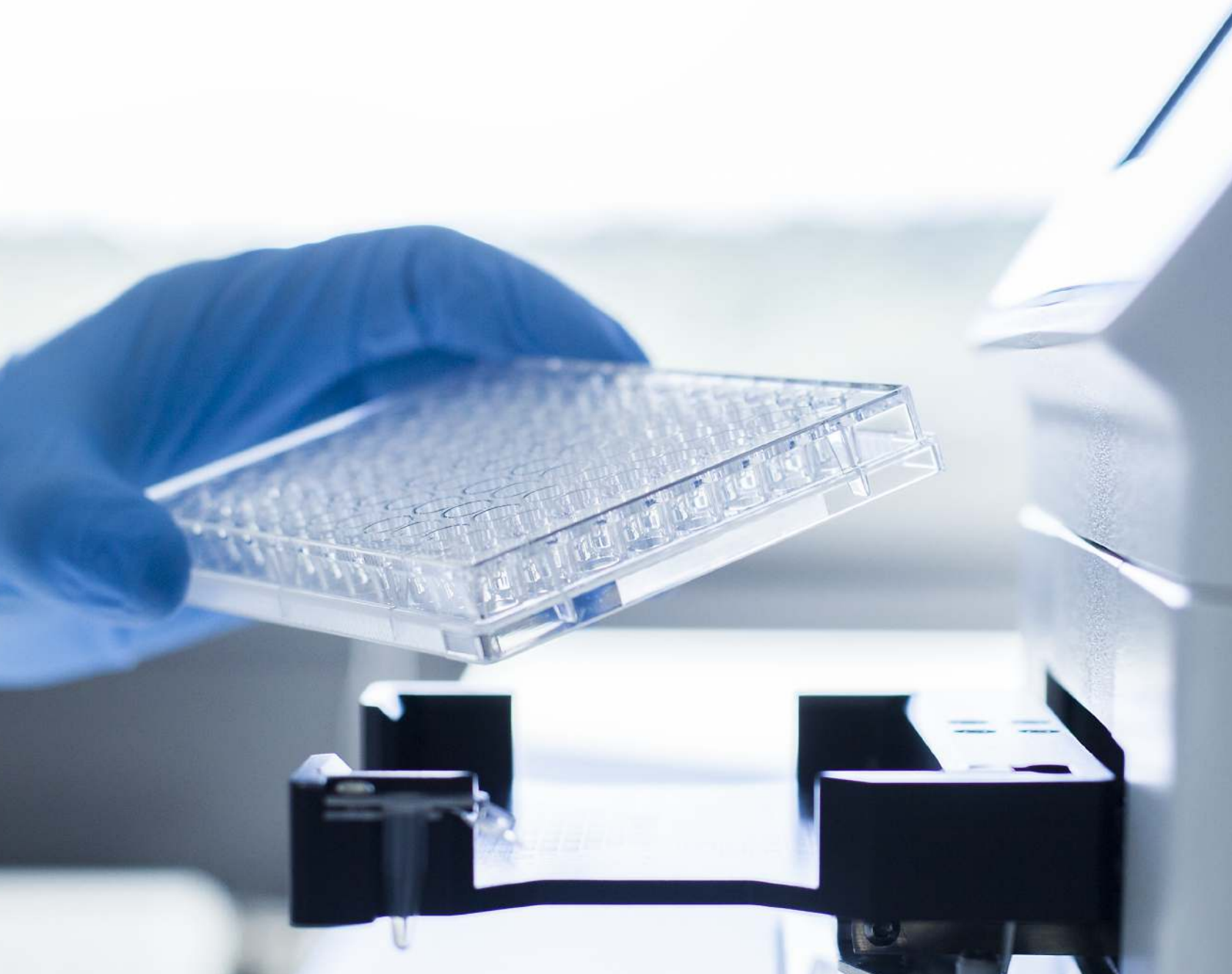
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Website: www.cellink.com

I.DOT Mini

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



Technical specifications

Technical specifications have been tested at DISPENDIX under laboratory conditions and are subject to change.

Dimensions (L x W x H)	350 x 320 x 270 mm
Power supply	AC 100-120V, 50/60Hz, 10A or AC 200-240V, 50/60Hz, 5A
Weight	15 kg (33.1 lbs.)
Destination	All SBS-format microplates not exceeding 127 x 85 x 16 mm (L x W x H)
Dead volume	<1 µl
Dispensing volume	Deep reservoir well from 8 nL to 500,000 nL
Volume unit step	1 nL
Dispensed volume CV (coefficient of variation)	<5.0% (for >100 nL) <8.0% (for <100 nL)
Accuracy	<5.0% (for >100 nL) <8.0% (for <100 nL)
Liquid viscosity range	1 to 6 cP (mPa*S)
Nozzle diameter	100 µm
Source fluid temperature range	Room temperature (temperature range adaptable by optional passive cooling tray)
Target plate temperature range	Room temperature
Air Supply	Internal compressor or external supply of pressurized air (3 – 10 bar)
Speed	96/384/1536 MTP in 20/59/156 s