



iZERO™ series

Contact & Non-Contact Liquid Microdispensing Instrument

The new series of instrument iZERO™ represents a fully automated, contact or non-contact ultra low liquid handling system with a fully flexible, scalable and highly automated production environment with no need for changing or reprogramming the entire setting during production.

The changeover time of iZERO™ is reduced to minimum while maximizing its production time, which makes iZERO™ the perfect choice for your production line.



iZERO™ equipped with a source MTP or vial holder, wash station, droplet volume detection system, head camera for QC, flexible deck configuration, where MTPs, glass-slides and vials can be placed next to each other. The M2-Automation Dispensing Technology systems enable protein and DNA microarray spotting in 40+ μ L, 10+nL to mL volume ranges, printing on different coolable targets under controlled conditions (controlling temperature, humidity and DEW point). The iZERO™ system allows 2D/ 3D drop volume logging and JATS software control of variable individual sample parameters. The combination of the head camera and inline QC software facilitate recovery run on the missing spots for producing perfect microarrays with the lowest scrape rate.



Key features

- Fully automated iZERO™ system for large scale production capacities
- Distance Sensor system for a perfect dispensing on (un-regular) target surfaces
- Integration of custom-specific components
- Climate Control system for logging all production variables
- Clean-Room suitable, including HEPA-filter system and cooling unit
- Environmental enclosure for CO2 control, UV light or ionizers
- Mobile iZERO™ set-up with easy exchange and maintenance
- Liquid Path Air-free for the best performing dispensing technology during your intensive production runs

- Dual active feedthrough transfer system and target handler with fast barcode reading
- DXF target format import for flexible and adaptable production line
- Adaptable volume range from picolitre to millilitre for single- or multidispenser system
- 2D- or 3D-imaging system for droplet fly path imaging and high performance magnetic drives for ultimate positioning of a spot on the target
- Distance sensor for scanning or controlling target distances
- Fully climate controlled system with integrated HEPA system and flexible deck configuration for various targets and sources
- Diverse instrument sizes for adaptivity in production capacity



Piercer and Piezo-PDMD above a MTP source



M2MD for 10+ nL dispensing with a disposable tip



M2MD Dispenser filling microfluidics

