



- Affordable non-contact, acoustic, nanolitre liquid dispenser.
- Low energy acoustics used, does not damage transferred materials or source plates. Safe for all biological fluids (including cells).
- Capable of plate reformatting, compound library screening, assay development, cherry picking and serial dilutions (IC50s) in and out of 384, 1536 and 3456 well plates.*
- Precise and controlled transfer of chemical and biological compounds. Suitable for dispensing wide range of fluids e.g. 100% DMSO, aqueous buffers, glycerol solutions. Standard unit able to dispense between 1.0 - 1,000nl.
- The Ats-100 creates non-contact quantitative microarrays, even on top of existing arrays. Suitable for use with proteins, tissues and whole blood. This option is able to dispense volumes between 250pl - 250nl.
- Can be easily integrated to produce a complete high throughput screening system.
- Low dead volumes. e.g.<1.0µl for 1536 wellplate.
- Protocols are remotely configured and downloaded to the Ats-100 for processing. Software is designed to handle multiple source plates, only one file required for cherry picking. User-tuneable unit drop volumes to optimise resolution or throughput.
- Continuously drain wells from top to bottom, independent of neighbouring liquid levels. Real-time measurement of all liquid levels in all wells performed.

* Certified for use with COC plates from FluidX, Aurora Discovery and Greiner Bio-One. Contact FluidX for full list of compatible plates. Any SBS format plates (height 14.4mm or less) can be used as destination plate.

Acoustic (Non-contact) Liquid Dispenser

delivering solutions

SPECIFICATIONS

Fluid Viscosity	0.05-5 cP
Surface Tension	27-72 dynes/cm
Density	0.5-2.0 g/cm ³
Transfer Volume	1-1,000nl 250 pl - 250nl with microarray package
Transfer Variability	<10%CV
384 well plate replication	<4min*
1536 well plate replication	<6min*
3456 well plate replication	<15min*
	*for single unit volume transfer per well
Dimensions	W=700m x D=760mm x H=700mm
Weight	110kg
Electrical Requirements	240Vac, 50/60Hz
Clean Dry Air	60-80 psi, 2CFM
System Components	Internal coupling fluid circulation system Wellplate vision system Windows-based PC Internal barcode reader Internal target plate flipper and deionizer Ethernet/connectivity data Real-time data collection and management system

SPECIAL FEATURES

Low-energy acoustic technology	Process mapping software included
Dispense from 384, 1536 or 3456 wellplates	Stand-alone and automation models available
Continuous liquid level tracking operation	Landscape wellplate orientation for both source and destination plates (external plate flipping or rotation not required)
User-tuneable calibrations for new fluids	

Ats-100 manufactured by EDC Biosystems
www.edcbiosystems.com

FluidX reserve the right to update and change product information without notice.

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