



## Top Reasons to Choose the EDC Biosystems ATS-100 / ATS-100av Acoustic Transfer System

### Technology

1. Easily switches to dispense a wide range of liquids from 100% DMSO to aqueous buffers and glycerol solutions.
2. Fully user-tunable for new liquids. Extremely flexible and application friendly.
3. User-selectable and tunable unit drop volumes between 1 to 10nL.
4. Dispense range from 1nL to 2 $\mu$ L+. (Final dispense volumes greater than the unit drop volume are formed from multiple unit drops. Larger volumes increase transfer times.)
5. Use conventional off-the-shelf 96, 384, 1536, or 3456 wellplates (subject to qualification) as a SOURCE. Dispense into or onto any SBS/ANSI-sized destination 14.4mm and shorter.
6. Accuracy and precision of <10% CV. True Non-contact Technology™ performance is unaffected by the remaining source volumes or empty neighboring wells.
7. Lowest true dead/starting-volumes (i.e., <0.5 $\mu$ L 3456; <1 $\mu$ L 1536; <2 $\mu$ L 384) in the industry.
8. Capable of continually dispensing liquid from any single source well from top to bottom without interruption.
9. Real-time measurement of all liquid levels in all source wells.
10. Uses low-energy acoustics. Safe for all biological fluids including cells.

### User Interface

1. Software is optimized to handle cherry picking from a library of multiple source plates.
2. Fully customizable process map creation software to dispense any volume to any location included.
3. Accepts process maps in the form of tab-delimited text files (a.k.a., work files), enabling the use of familiar external software to create maps.
4. Built-in live video and external monitor is included.
5. The ATS-100 does not have any hidden consoles or external vacuum generators that require extra floor space for installation. Less operating noise, maintenance, and cost.
6. Operation noise level is approximately equivalent to a PC computer.

### Cost of Ownership

1. The ATS-100 is the lowest cost instrument available among others capable of dispensing in the low nanoliter range.
2. Fully user-tunable for new liquids or other DMSO concentrations. No calibration fees.
3. Service maintenance packages are customizable to fit your needs.
4. No hidden consoles that require extra floor space or external vacuum source that needs to be installed.
5. No consumable tips or cleaning solutions needed with acoustic dispensing technology.

# Instrument Comparison Worksheet

|                          | ATS-100 / ATS-100av   | Other |
|--------------------------|---|-------|
| <b>Technology</b>        |   |       |
| 1.                       | Easily switches to dispense a wide range of liquids from 100% DMSO to aqueous buffers and glycerol solutions.   |       |
| 2.                       | Fully user-tunable for new liquids. Extremely flexible and application friendly.  |       |
| 3.                       | User-selectable and tunable unit drop volumes between 1 to 10nL.  |       |
| 4.                       | Dispense range from 1nL to 2µL+. (Final dispense volumes greater than the unit drop volume are formed from multiple unit drops. Larger volumes increase transfer times.)          |       |
| 5.                       | Use conventional off-the-shelf 96, 384, 1536, or 3456 wellplates (subject to qualification) as a SOURCE. Dispense into or onto any SBS/ANSI-sized destination 14.4mm and shorter. |       |
| 6.                       | Accuracy and precision of <10% CV. True Non-contact Technology™ performance is unaffected by the remaining source volumes or empty neighboring wells.                             |       |
| 7.                       | Lowest true starting/dead-volumes (i.e., <0.5µL 3456; <1µL 1536; <2µL 384) in the industry.   |       |
| 8.                       | Capable of continually dispensing liquid from any single source well from top to bottom without interruption.   |       |
| 9.                       | Real-time measurement of all liquid levels in all source wells.   |       |
| 10.                      | Uses low-energy acoustics. Safe for all biological fluids including cells.  |       |
| <b>User Interface</b>    |   |       |
| 11.                      | Software is optimized to handle cherry picking from a library of multiple source plates.  |       |
| 12.                      | Fully customizable process map creation software to dispense any volume to any location included.   |       |
| 13.                      | Accepts process maps in the form of tab-delimited text files (a.k.a., work files), enabling the use of familiar external software to create maps.                                 |       |
| 14.                      | Built-in live video and external monitor is included.   |       |
| 15.                      | The ATS-100 does not have any hidden consoles or external vacuum generators that require extra floor space for installation. Less maintenance.                                    |       |
| 16.                      | Operation noise level is approximately equivalent to a PC computer.   |       |
| <b>Cost of Ownership</b> |   |       |
| 17.                      | The ATS-100 is the lowest cost instrument available among others capable of dispensing in the low nanoliter range.  |       |
| 18.                      | Fully user-tunable for new liquids or other DMSO concentrations. No calibration fees.   |       |
| 19.                      | Service maintenance packages are customizable to fit your needs.  |       |
| 20.                      | No hidden consoles that require extra floor space or external vacuum source that needs to be installed.   |       |
| 21.                      | No consumable tips or cleaning solutions needed with acoustic dispensing technology.  |       |