



SCIENION is a state of the art automated, non-contact dispensing system of ultra-low volumes based on piezo driven pulses on inert glass capillaries called Piezo Dispense Capillaries (PDCs) which covers dispensing a liquid sample from 30 pL to 800 pL per drop. This enables accurate and precise droplet deposition of up to 500 drops per second under various conditions. It can print in microtiter plates, glass slides, microfluidic structures, and many more.

The non-contact technology offers a number of benefits over contact spotting such as homogenous spot morphology, no damage to sensitive surfaces as can result from contacting metal pins, dispensing into very small cavities and drop volume is fully controlled by implementing a proprietary vision-based algorithm.

Specification:

Dispense Volume	30 – 800 pL/drop
No. of Dispense Capillaries	From 1 to 8 PDC channels
Distance Dispense Capillaries	4.5 or 9 mm increments
Target Holder	200 x 300 mm or 246 x 300 mm
Capacity	Up to 4 MTPs or 36 standard glass slides
Axis system	X-Y-Z spindle drives
Resolution (step size)	5 µm
Precision	< 5 µm
Accuracy	< 15 µm
Options	Live stream camera, vaccum target holder, online target alignment, online array QC software
Dimensions (L,W,H) with enclosure	760 x 850 x 650 mm
Weight	130 kg

