Molecular biology meets industrial automation

AUTOMATED PRECISION DISPENSING

with sciFLEXARRAYERs





SCIENION's sciFLEXARRAYERs are fully automated non-contact dispensing platforms tailored to the demands of any research or manufacturing environment.

Together with SCIENION's coating technology, a wide range of biomolecules, organic solvents, and viscous liquids are homogenously dispensed onto various targets such as MTPs, biosensors, and glass slides.

sciDROP PICO and sciDROP NANO Technology

Equipped with SCIENION's patented sciDROP PICO and sciDROP NANO technologies, drop-on-demand dispensing of 10 pL to 100 μ L can be covered by a single sciFLEXARRAYER instrument.

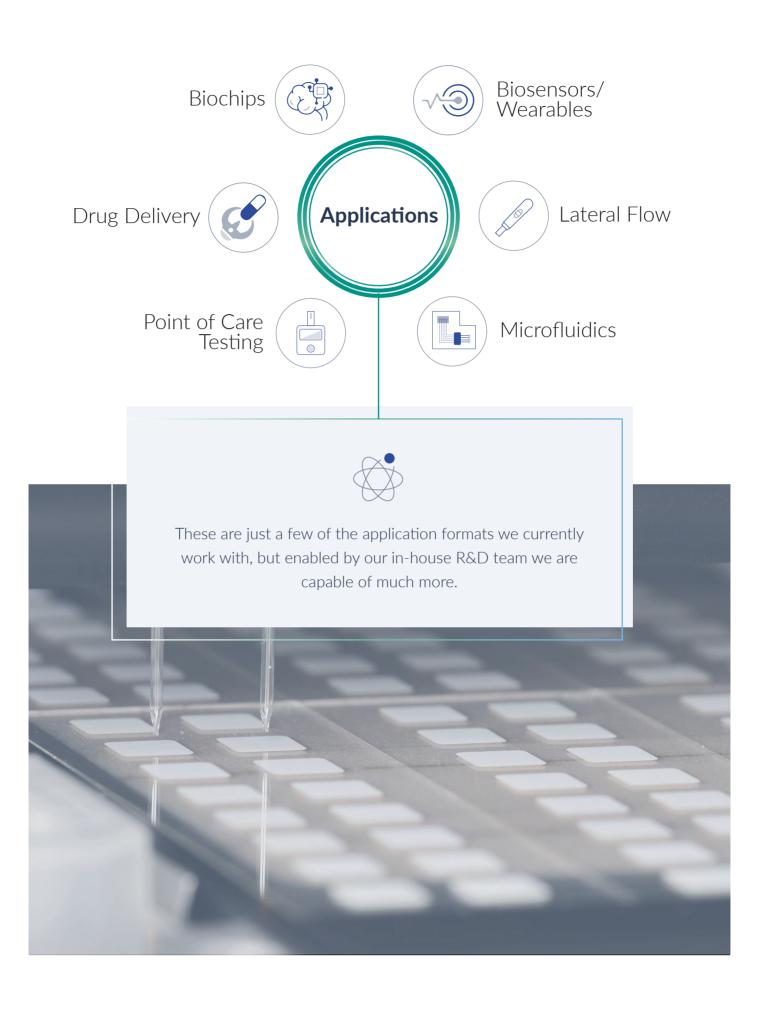
sciDROP PICO is an acoustic non-contact dispensing technology based on piezo driven pulses on inert glass capillaries called Piezo Dispense Capillaries (PDCs). This enables accurate and precise droplet deposition of up to 500 drops per second.

sciDROP NANO is the perfect choice for printing larger spots, lines and coatings. At the heart of the technology is an electromagnetic micro valve with an extremely fast response time, creating a jet of controlled dispensed volume and accurate positioning.

Based on our core technologies and decades of experience, our team provides comprehensive services including:

- material selection
- assay development
- supply chain logistics
- quality management
- process development
- scale-up towards commercialization





Commercial solutions from R&D to certified manufacturing:



Hardware Options

- 3D drop, live stream and head cameras
- sciPULSE shaper for dispensing of volumes under 50 pL & high viscosities
- Temperature, humidity and dew point control
- Custom holders for non-standard targets
- Cooling/heating unit for source plate and/or slide holder
- Anti-static bar

Software Options

- Spot-on-the-Fly mode to speed up array printing
- Full online QC
- Fiducial recognition & target alignment

We can also develop custom hardware and software to meet your application needs.



Technical Specifications



^{*} results obtained with optimized samples and configuration



Discover our capabilities



High accuracy and precision dispensing of a wide range of liquids: Non-contact precision dispensing of liquid in the pico- to nanoliterrange.



Dispense any molecule onto any substrate at any scale: Benefit from our expertise in manifold application formats such as Biosensors, Lateral Flow or Microfluidics.



Capture more value from every drop: Leverage our precision dispensing solutions to miniaturize and multiplex your assays.



Consistent: Guaranteed batch-to-batch reproducibility.



Speed: Up to 1 array per second with unlimited batch sizes.



Complete solutions for your workflow: We provide complete product, process and services solutions globally, ranging from assay development, supply chain logistics, quality management, process development and scale-up towards commercialization.



Complete solutions for your workflows



Contract manufacturing Assay development





Regulatory compliance



In-line manufacturing systems



Quantitative readers Consulting services









Batch R&D systems through pilot production

Global Service and Support

- Demo printing and application support
- Training on operation and maintenance
- Production process optimization
- Hotline and online support
- Preventive maintenance inspection and service contract





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