



SCIDROP PICO

SCIDROP NANO

Enabling precision dispensing versatility through wide volume range

PICOLITERS NANOLITERS MICROLITERS

SCIDROP PICO SCIDROP NANO

- Up to 8 fluidic channels in standard configurationUp to 8 fluidic channels in standard configuration
- Visual detection of single droplets and liquid jets Visual detection of single droplets and liquid jets
- Volume control through the optical detection or flow sensorsVolume control through the optical detection or flow sensors
- Outstanding reproducibility of dispensed volumes (typically below 2%)Outstanding reproducibility of dispensed volumes (typically below 2%)
- Freely adjustable configuration and many software optionsFreely adjustable configuration and many software options
- From R&D to high-throughput production environmentFrom R&D to high-throughput production environment
- Both technologies can be installed in one sciFLEXARRAYER Both technologies can be installed in one sciFLEXARRAYER

SCIDROP TECHNOLOGY



sciDROP PICO meets the requirements of most sophisticated applications in R&D and manufacturing. High reproducibility of droplet volumes combined with unsurpassed precision, accuracy and multiple hardware & software options deliver seamless spotting performance during short and long printing runs.



sciDROP NANO is the perfect choice for printing larger spots, lines and coatings. Bulk dispensing or aspirate/dispense working mode can be employed depending on the application. Online volume measurement and control, quick and easy exchange of sample reservoirs and accurate positioning and stability underpin its performance.

Both technologies are **compatible with all sciFLEXARRAYER models** and can be both installed in a **single instrument**, covering a full range of precision dispensing applications

10 pL 100 μL

Full volume range with sciDROP PICO & NANO combined

	SCI DROP PICO	SCI DROP NANO
Dispense Technology	Non-contact piezo-acoustic dispensing	Non-contact dispensing with fast- response electromagnetic microvalve
Dispense Mode	Stop-and-spot, spot-on-the-fly, line printing, and predefined patterns	
Volume	10 pL* - 800 pL per single droplet	25 nL - 1 μL per single jet (flow rate 1.5 μL / cm)
Individual Volume Range	10 pL* - 70 nL	25 nL - 100 μL
Combined Volume Range	10 pL - 100 μL when both technologies are installed in one instrument	
Volume Control	Online optical detection	Online optical detection and flow sensor
Viscosity Range	0.4 - 20 mPas*	up to 25 mPas
Spotting Frequency	1 - 1500 Hz	1 - 50 Hz
Dispensed Volume Reproducibility	CV typically below 0.5%	CV typically below 2%
Dispense Capillaries	Medical-grade borosilicate glass with special coatings (depending on sample properties)	Medical-grade borosilicate glass with special coating
Capillary Coatings	Various coatings to ensure stable production runs. Optimal coating type will be determined in a demo.	Special capillary coating to ensure stable jet dispensing.
Popular Substrates	 Biosensors Microplates Membranes Microfluidic chips LoAC & POC devices Microplates Glass & polymer slides 	 Biosensors Microfluidic cartridges Microplates Microwells Nitrocellulose sheets Lateral flow membranes

*results obtained with optimized samples and configuration

Contact us for your free demo

Our team of experts will determine the optimal solution for your applications

SCIENION AG (Head Office) Wagner-Régeny-Str. 15 D-12489 Berlin Germany Tel: +49 (0)30 6392 1700 support@scienion.com SCIENION UK Ltd.
Suite S2, Building 2000
Lakeside, Western Road,Portsmouth
PO6 3EN, United Kingdom
Mobile- +44 (0) 7483 388 271
Landline- +44 (0) 2393 233 601

SCIENION US, Inc.
4405 E. Baseline Road #123
Phoenix, AZ 85042
Phone: +1 (888) 988-3842
Email:
USsalessupport@scienion.com



