



# sciDROPNAN

## PRECISE NANOLITER DISPENSING

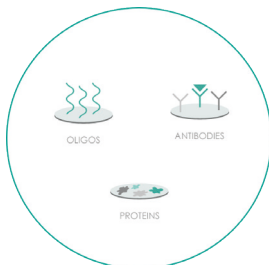
- Bulk dispensing
- Aspirate/Dispense mode
- Volume and positioning software controlled
- Flexible choice of substrates
- From R&D to manufacturing environment



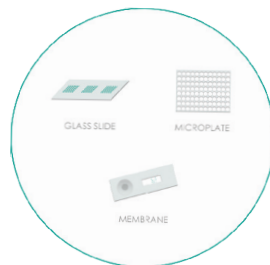
Broad volume range



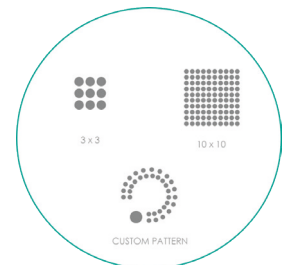
Outstanding reproducibility



Any biological content



On all surfaces



On any array design

HIGH REPRODUCIBILITY

UNSURPASSED PRECISION & ACCURACY

## Product Description & Benefits

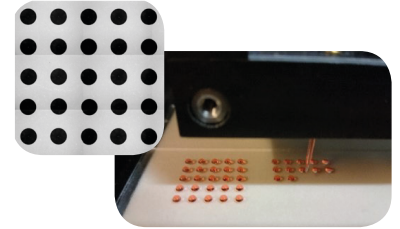
Both bulk dispensing from 1, 5, 10 and 50 ml vials and aspirate/dispense mode fully controlled by our proprietary software.

Long term dispensing stability

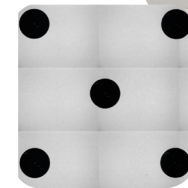
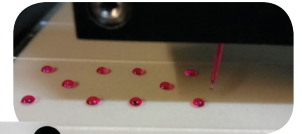
Multiplexed assays capture probes handling

- where volumes to be dispensed range between nL to  $\mu$ L
- where lines have to be precisely deposited onto nitrocellulose sheets, lateral flow membranes, dipsticks or other materials.

sciDROP NANO can be implemented in all of our sciFLEXARRAYERS, from R&D to manufacturing



Enzyme solution spotted  
5x5 array, V=1  $\mu$ L per spot



PCR buffer spotted  
V= 2600 nL per spot

Drop volume	25-250 nL
Nano Dispensing Capillaries	Borosilicate glass
Surface Tension	28 mN/m
Viscosity rate	up to 22 mPa.s
Dispense precision	<5% CV
Positioning accuracy	+/-100 $\mu$ m



## Options & Software

Environmental Control	Temperature, Humidity and Dew Point Control
Nanodispensing Channels	On demand
Customization	Customized Holders for application specific substrates
Software	Fiducial recognition and automated target alignment
Services	Advanced application support

## Technical information

Dispensing technology	Electromagnetic microvalve volume-on-demand
Dispense volume	25-250 nL per drop
Drives	Linear for X/Y & Spindle for Z
Resolution	1 $\mu$ m
Accuracy (Absolute Position)	< 10 $\mu$ m
Precision (Repeat Position)	< 3 $\mu$ m
Max. speed	100 cm/sec

SCIENION AG  
Volmerstr. 7b  
D-12489 Berlin  
Tel: +49 (0)30 6392 1700  
support@scienion.com  
www.scienion.com

SCIENION US, Inc.  
2640 W Medtronic Way  
Tempe, AZ 85281  
Tel: +1 (888) 988-3842  
info@scienion.us  
in @SCIENION\_AG