scienion
ENABLING LIFE SCIENCE

sciDROP PICO sciDROP NANO

sciDROP NANO

PRECISE NANOLITER DISPENSING

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

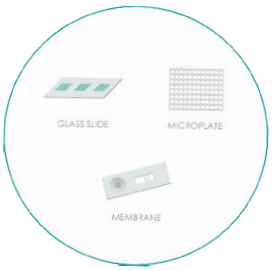
nL - µL

Broad volume range

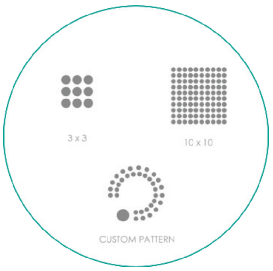
CV < 5%

Outstanding reproducibility

Any biological content



On all surfaces



On any array design

HIGH REPRODUCIBILITY

UNSURPASSED PRECISION & ACCURACY

Product Description & Benefits

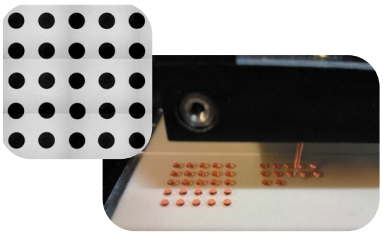
Both bulk dispensing from 1, 5, 10 and 50 ml vials and aspirate/dispense mode fully controlled by our proprietary software.

Long term dispensing stability

Multiplexed assays capture probes handling

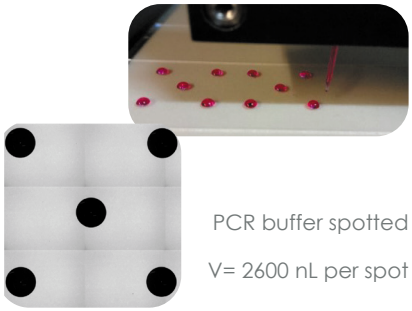
- where volumes to be dispensed range between nL to µL
- where lines have to be precisely deposited onto nitrocellulose sheets, lateral flow membranes, dipsticks or other materials.

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



Enzyme solution spotted

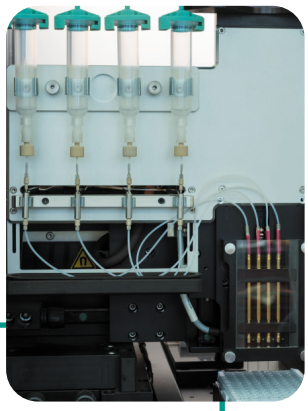
5x5 array, V=1µL per spot



PCR buffer spotted

V= 2600 nL per spot

Drop volume	25 nl - 1 ul
Nano Dispensing Capillaries	Borosilicate glass
Surface Tension	28 mN/m
Viscosity rate	up to 22 mPa.s
Dispense precision	<5% CV
Positioning accuracy	+/-100 µm



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 nl - 1ul per drop
Drives	Linear for X/Y & Spindle for Z
Resolution	1 µm
Accuracy (Absolute Position)	< 10 µm
Precision (Repeat Position)	< 3 µm
Max. speed	100 cm/sec

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