

## sciFLEXARRAYER Ultra-Low Volume Dispensers



### The sciFLEXARRAYER S12

- enables precise linear batch production
- less particles and turbulences by a new opening mechanism
- large dispense area for printing on wafers up to 12",  
MTPs, biosensors, glass slides, membranes etc.
- fully automated / walk-away system
- produces multiplexed tests for diagnostics and life science research



# The sciFLEXARRAYER S12

## Product Description & Benefits

Modern design with clear forms and a new, particle minimizing, opening door are characteristics for the sciFLEXARRAYER S12, a fully automated non-contact dispensing system for ultra-low volumes. The sciFLEXARRAYER S12 has been designed and optimized for medium scale batch production, especially for precise 12" wafer loading.

- Optimal dispensing area for medium batch production
- Non-contact technology allows dispensing of pL to  $\mu$ L droplets into small cavities and on 3D structures
- Most accurate positioning of dispensed drops and lines on the target
- Consistent and highly reproducible results by the use of programmed parameters and re-spotting capability
- Compact all-in-one design for manufacturing needs
- Auto-drop and full QC function

## Technical Information

Dispensing technology:	Non-contact, drop-on-demand
No. of dispense capillaries:	1-8 (in any combination)
Distance of dispense capillaries:	4.5 or 9 mm increments
Precision (mechanical):	< 3 $\mu$ m
Spot positioning (standard):	< 5 $\mu$ m (20 $\mu$ m)
Typical spot pitch (spacing):	250 $\mu$ m (freely scaleable)
Dispense control:	Integrated horizontal CCD camera
Spottable area:	380 x 380 mm
Capacity:	70 slides (76,2 x 25,4 mm)
	12 microtiter plates
Software:	On-board (Win7 based)
Dimensions (L, W, H) with enclosure (mm) & weight:	1250 x 830 x 1820, 400 kg
Voltage:	115/230 VAC, 60/50Hz

	sciDROP PICO	sciDROP NANO
Dispense volume:	50-800 pL per drop	30-200 nL per drop
Capillary orifice:	50-110 $\mu$ m	150 / 300 $\mu$ m
Capillary material:	borosilicate glass	stainless steel, corundum
Typical spot size:	80-250 $\mu$ m	250-2000 $\mu$ m

## Applications

- Production of DNA, protein, glycan or cell transfection arrays for IVD or research use only
- High throughput wafer/biosensor loading
- Multiplexed lateral flow tests
- Spotting onto round targets (e.g disc format, wafers) and customized targets
- Microfluidics, lab-on-a chip technology

## Options & Software

- Humidity and dew point control
- Cooling unit for source plate and targets
- Integration of third party components
- Clean room compatible unit
- Variety of target holders available (incl. vacuum target holder) for slides, wafers, biosensors, etc.
- Deionizer
- Software options for full online QC
- Software supported fiducial target recognition and alignment
- Spot-on-the-Fly including line spotting
- Easy setup of user defined spotting routines
- Password protected access level
- External triggering

## Services & Support

- Training of operation and maintenance
- Service contracts (on-site support in 48 hours)
- FDA Part 11 implementation
- Hotline & online support

## Related Products

- sciCONSUMABLES
- sciSERVICES
- sciREADER CL2

For additional information of the sciFLEXARRAYER S12 please contact us by email at: [support@scienion.de](mailto:support@scienion.de)

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