

sciFLEXARRAYER Ultra-Low Volume Dispensers



The sciFLEXARRAYER \$100

- sciFLEXARRAYER \$100 is a high throughput continuous inline production engine, engineered as a fully automated, walk-away system
- a non-contact liquid handling system, suited for ultra-low volumes of biological samples in the genomic, proteomic and biosensor world
- produces up to 1 array per second in unlimited batch sizes due to conveyer belt design
- already used by customers all over the world to produce high quality microarrays (DNA, protein, glycan), Maldi targets, biosensors, etc.



The sciFLEXARRAYER \$100

🐡 Benefits

- Non-contact liquid handling of volumes from picoliter to microliter
- Fast and precise X-Y magnetic linear stage
- Transfer volume not affected by target
- No contamination risk
- "Free-fly" of droplets allowing dispensing into small cavities
- Possibility of re-spotting
- Accurate dilution series
- Efficient mixing of reagents
- Remote service and support via internet
- Quick and simple exchange of different target holders
- Walk-away system with auto-drop function

-----> Technical Information

Piezo dispensing:	Non-contact, drop-on-demand
No. of portals:	unlimited
No. of liquid channels:	Up to 12 in each portal
Distance of	
dispense capillaries:	9 mm increments
Precision (mechanical):	< 3 µm
Spot positioning (standard):	< 6 µm (20 µm)
Typical pitch (spacing):	300 µm (scaleable)
Dispense control:	Integrated horizontal CCD
	cameras
Capacity:	cameras Upon inquiry
Capacity:	cameras Upon inquiry continous production
Capacity: Dimensions (L, W, H)	cameras Upon inquiry continous production 1300 x 800 x 1200 mm
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Capacity: Dimensions (L, W, H) with enclosure: Voltage: Computer: Connections required:	cameras Upon inquiry continous production 1300 x 800 x 1200 mm (each portal 350 kg) VAC 110; VAC 220 On-board (Windows based) Compressed air, 3-phase current

	SCIDROP PICO	SCIDROP NANO
Dispense volume:	50-80 pl per drop	30-200 nl per drop
Capillary orifice:	50-110 µm	150 / 300 µm
Capillary material:	borosilicate glass	stainless steel,
		corundum
Typical spot size:	80-250 µm	250-2000 µm

Applications

- DNA, protein, glycan arraying and biosensor loading
- Cell transfection arrays
- •• MALDI-MS sample preparation and target loading
- Accurate dilution series and addition of tiny aliquots
- Printing chemical libraries
- Spotting onto disc format (round targets) and customized targets
- Assay development and screening assays
- Microarray-based analysis

Options & Software

- Stacking systems with environmental control (heat, humidity, etc.)
- Reel-to-reel operation
- •• Deionizer
- N₂ Blower to dust the targets
- RFID station
- Humidity and dew point control
- Cooling unit for source plate and targets
- Customized and heatable target carriers
- Clean room compatible unit and HEPA filtered hood
- 3D drop detection
- Software supported fiducial and target recognition
- Software option for full post-spotting online QC
- Respotting of missing spots
- Easy setup of spotting routines by user
- Password protected access level
- Line spotting with Spot-on-the-fly tool

Services & Support

- Training of operation and maintenance
- Service contracts (on-site support in less than 48 hours)
- Application development
- FDA Part 11 implementation
- Hotline support
- Online support

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