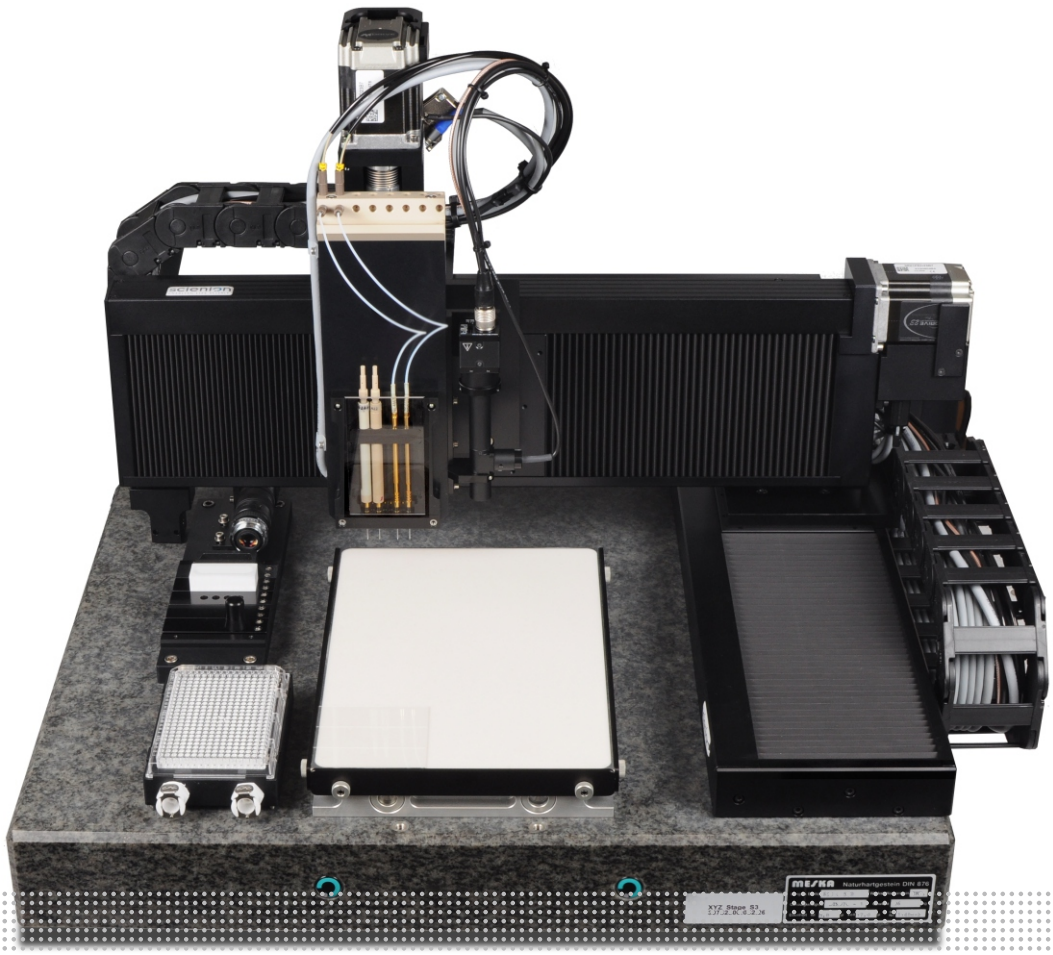
scienion
ENABLING LIFE SCIENCE

sciFLEXARRAYER Ultra-Low Volume Dispensers



The sciFLEXARRAYER S3

- sciFLEXARRAYER S3 is the flexible tool in R&D and a reliable workhorse for manufacturing high quality arrays
- unsurpassed non-contact piezo-dispensing technology affordable for academic budget with same uncompromising SCIENION quality as the larger production units
- flexible and intuitive sciFLEXARRAYER software
- generate high quality arrays (DNA, protein, glycan), biosensors, MALDI targets, wafers, etc.

The sciFLEXARRAYER S3 . . . *The versatile tool for ultra-low volume applications in R&D*

The sciFLEXARRAYER S3

Product description

The sciFLEXARRAYER S3 is an automated piezo driven, non-contact dispensing system of ultra-low volumes specifically designed as an economical entry unit for academia and R&D labs.

It consists of XYZ-stages with spindle drives, a piezo dispensing unit and precision equipment for liquid handling. The system handles volumes from 50 picoliters up to several microliters.

The S3 is suitable for the production of DNA, protein and glycan arrays, cell transfection arrays, and for loading MALDI-MS targets or biosensor surfaces.

While designed for academic budgets, the sciFLEXARRAYER S3 system comes with the same proprietary sciDROP dispensing technology and is built to the very same high quality standards as the larger production units: heavy duty design and low maintenance components for years and years of use as flexible and highly dependable tool for drop-on-demand dispensing.

Technical Information

Piezo dispensing:	Non-contact, drop-on-demand
No. of dispense capillaries:	1-8 (in any combination)
Distance of dispense capillaries:	4.5 or 9 mm increments
Dispense volume:	50-800 pl per drop
Capillary orifice:	50-100 µm
Capillary material:	Borosilicate glass
Typical spot size:	80-250 µm
Typical pitch (spacing):	300 µm (scaleable)
Dispense control:	Integrated horizontal CCD camera
Capacity:	1 source plate (MTP) and: 2 snap holders for a total of 20 standard glass slides, or: 4 target holders for 4 MTPs, or: 1 target vacuum holder for a total of 24 horizontal or 36 portrait glass slides (246 x 600 mm)
Dimensions (L, W, H) with enclosure:	760 x 850 x 650 mm (120 kg)
Voltage:	VAC 110; VAC 220

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

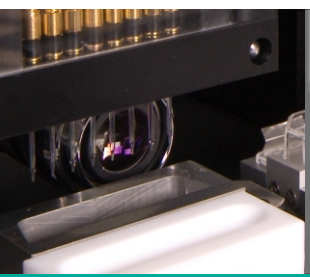
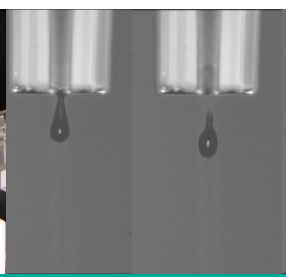
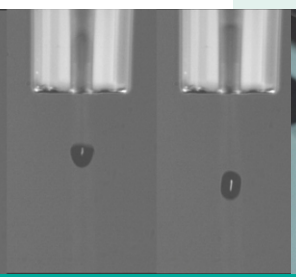
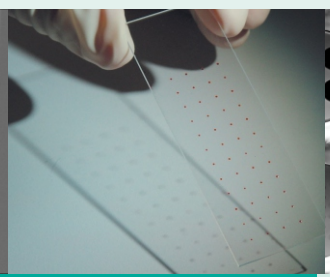
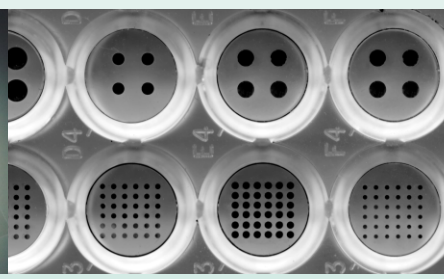
- Humidity and dew point control
- Cooling unit for source plate and targets
- Deionizer
- Various target holders for slides, wafers, biosensors, etc.
- Clean room compatible unit and HEPA filtered hood
- Heavy duty platform with integrated cable duct
- Software supported fiducial recognition and alignment
- Software option for full post-spotting online QC
- Respotting of missing spots
- Easy setup of spotting routines by user
- Password protected access level
- Integration of third party components (RFID, stacker, etc.)
- Customization of hardware and software

Services & Support

- Training of operation and maintenance
- Service contracts (on-site support in less than 48 hours)
- Application development
- Hotline and online support

Related Products

- sciCONSUMABLES
- sciSERVICES
- sciREADER CL 2

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