

sciFLEXARRAYER S1

Microdeposition system for biosensor arrays

The sciFLEXARRAYER S1 is a non-contact piezo dispensing system with an ultra-low volume handling. The instrument is suitable for the production of a broad variety of arrays (DNA, protein, glycan), preparation of MALDI-MS targets and loading of biosensor surfaces.

■ Technical specifications

Instrument: sciFLEXARRAYER S1 (Sciension)



Features:

- Single capillary system (one dispensing channel)
- Dispense volume: 220-520 pl/drop, typical spot size: 80-250 μm
- Head camera with diffuse light (spot detection) and integrated horizontal drop camera (automated drop detection)
- Humidity and dew point control (active humidity from 5% above ambient to 80% relative humidity)
- Precision < 50 μm
- Capacity (target area): 24 standard glass slides

Accessories:

- Piezo-dispensing capillaries PDC 60, PDC 70 and PDC 80 (60 to 80 μm orifice); uncoated (pure borosilicate glass) and with type 3-coating (for protein solutions and organic solvents)

■ Instrument operation

Operational mode:

sciFLEXARRAYER S1 is available in both user and service modes.

Provided services:

- On demand sample spotting
- Training in instrument usage

■ Sample requirements

- Samples filtered (0.22 μm pore size) and without air bubbles
- Samples in the appropriate buffer (with respect to their stability and homogeneity, buffer not interfering with the surface chemistry used for sample immobilization)

It is recommended to discuss the project and the details of the experiment (sample requirements and preparation, method of immobilization) with the Core Facility members in advance.

■ Contacts

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Instrument Location:

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