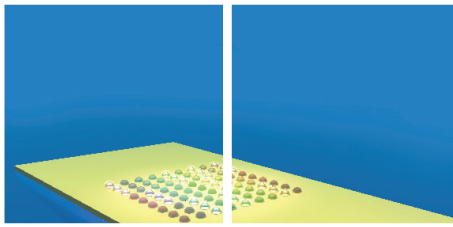
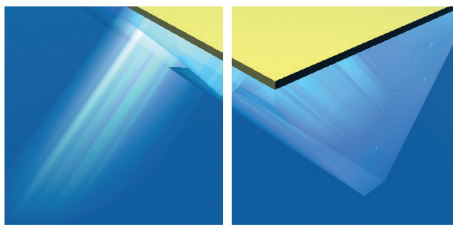
HORIBA Scientific

SPRi-CFM

Continuous Flow Microspotter for Printing Biomolecules

Improve your Spots Deposition Using Microfluidic Flow Printer



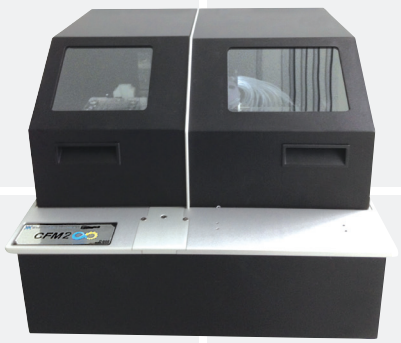


The SPRi Continuous Flow Microspotter enables to produce uniform and reproducible biomolecules deposition. The unique microfluidic flow technique allows increasing the sensitivity during your kinetic experiments.

Key Features & Benefits

- No cross-contamination between samples
- Capture and deposition of molecules from complex samples
- Increased spotting reproducibility and uniformity for more accurate data
- Enhanced assay sensitivity for bio-interaction experiments
- Multi-steps immobilization

The SPRi-CFM is fully adapted to our SPRi-Biochips™ and SPRI-Slides™ for printing biomolecules in a multiplexed format.
Molecules of interest are cycled over the surface until captured from solution, leading to higher surface concentrations and better spot uniformity.



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Specifications

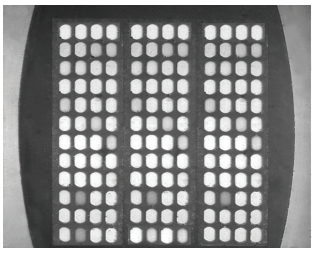
The SPRi Continuous Flow Microspotter™ (SPRi-CFM) uses flow to print biomolecules on a surface. Flow deposition allows samples to be cycled over the surface and captured from solution, leading to higher biomolecule density, better spot uniformity and improved assay sensitivity.

Principle

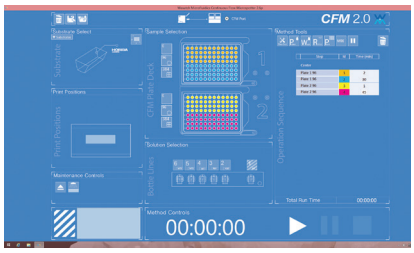
The printhead uses a three-dimensional network of microchannels that allows for the flow of solutions over a substrate area. The printhead provides a seal to the SPRi-Biochip™ or the SPRi-Slide™ and confines the solution to the area of the individual spot, completely eliminating background signal and the possibility of cross-contamination.

Each spot interface is linked to an inlet that allows fluid to circulate across the spotted area. The samples are drawn from the inlet wells to the outlet wells. The solution can be cycled back and forth (bi-directionally) between the inlet and outlet wells until the desired deposition level is achieved.

SPRi-CFM printhead



SPRi-CFM printing of a protein from a low to a high concentration in quadruplicate.



Friendly SPRi-CFM interface

Technical Details

Print method	Flow printing
Printhead material	Polydimethylsiloxane (PDMS)
Number of samples	Prints 48 samples at a time in a 4 x 12 matrix. Three spotting matrices: 48, 96 or 144 samples can be printed on a SPRi-Biochip™ or a SPRi-Slide™
Sample types	Prints from dilute samples to crude media
Spot shape	Elliptical shape
Spot size	350 x 500 microns
SPRi-Slide™ or SPRi-Biochip™ capacity	1 SPRi-Biochip™ or 1 SPRi-Slide™
Glass slide capacity	1 standard glass slide
Source plate capacity	2 standard microtiter plates (96 or 384 wells)
System cleaning	Automated cleaning between samples and at shutdown

Instrument

Dimensions (WxDxH)	51 x 52 x 41 cm - 20.1 x 20.5 x 16.1 inches
Weight	40 kg - 88 lbs
Power supply	110 V - 230/240 V - 50-60 Hz

Find out more at www.horiba.com/spri

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