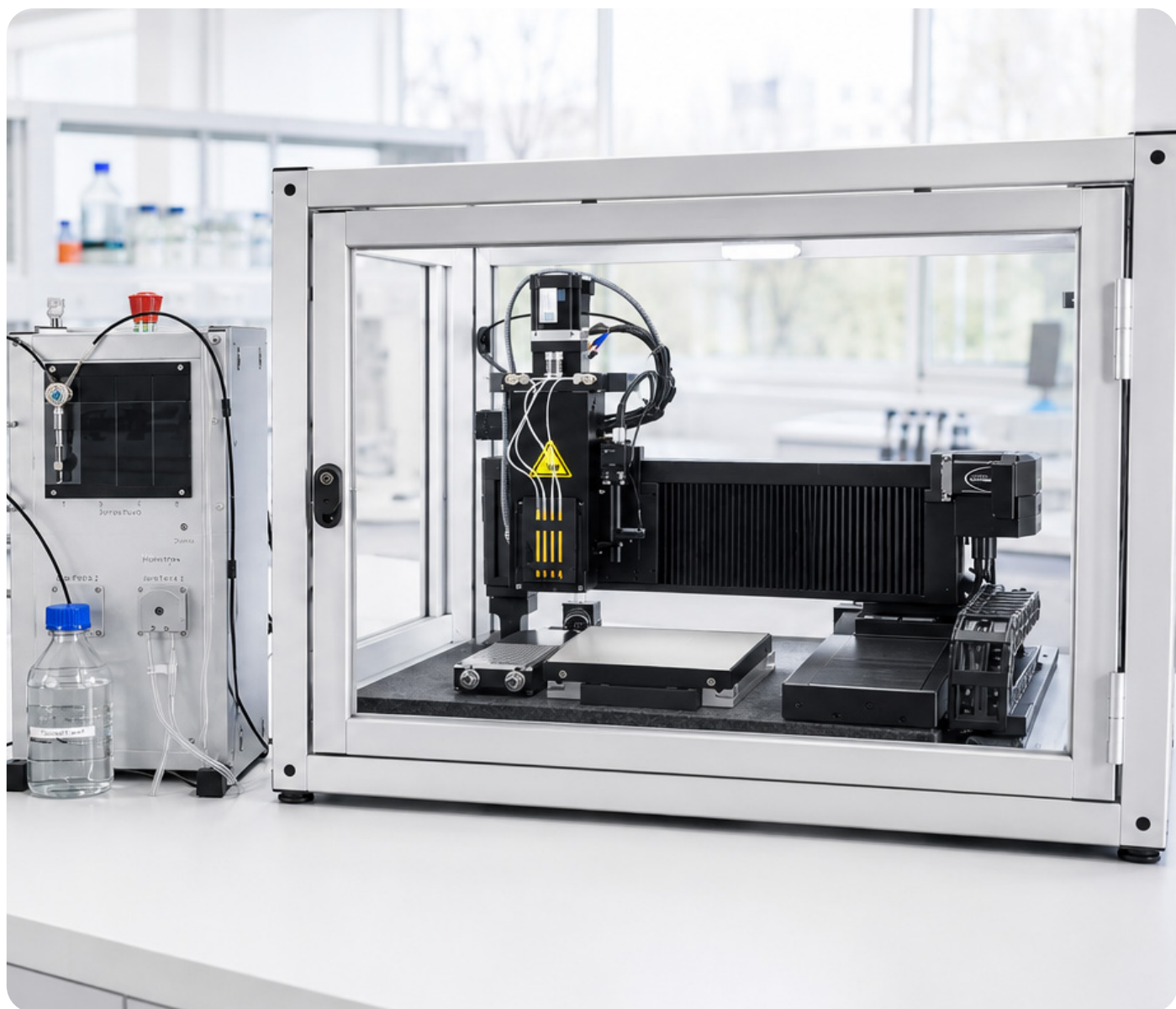


PRECISION MICRODISPENSING PLATFORM FOR ASSAY DEVELOPMENT AND
LOW-VOLUME PRODUCTION

SCIFLEXARRAYER S3 Catalyst

ONE PLATFORM - MULTIPLE APPLICATIONS. ACCELERATE DISCOVERY.



Product Overview

The S3 Catalyst is a pre-configured automated microdispensing system designed to offer up to 4 channels for precise, reproducible pico- to nanoliter range liquid handling in research, assay development and biomolecule deposition. Combining precision motion control, automated fluidics, integrated imaging, and environmental management, the S3 Catalyst enables reliable dispensing while maintaining workflow flexibility within its pre-configured design.

Scienion allows you to tailor print results through the optimization of printing using our PDC (Piezo Dispensing Capillary) sizes and coatings. PDCs are offered in 5 sizes and 5 coating types.

LEARN MORE
ABOUT PDCs
HERE



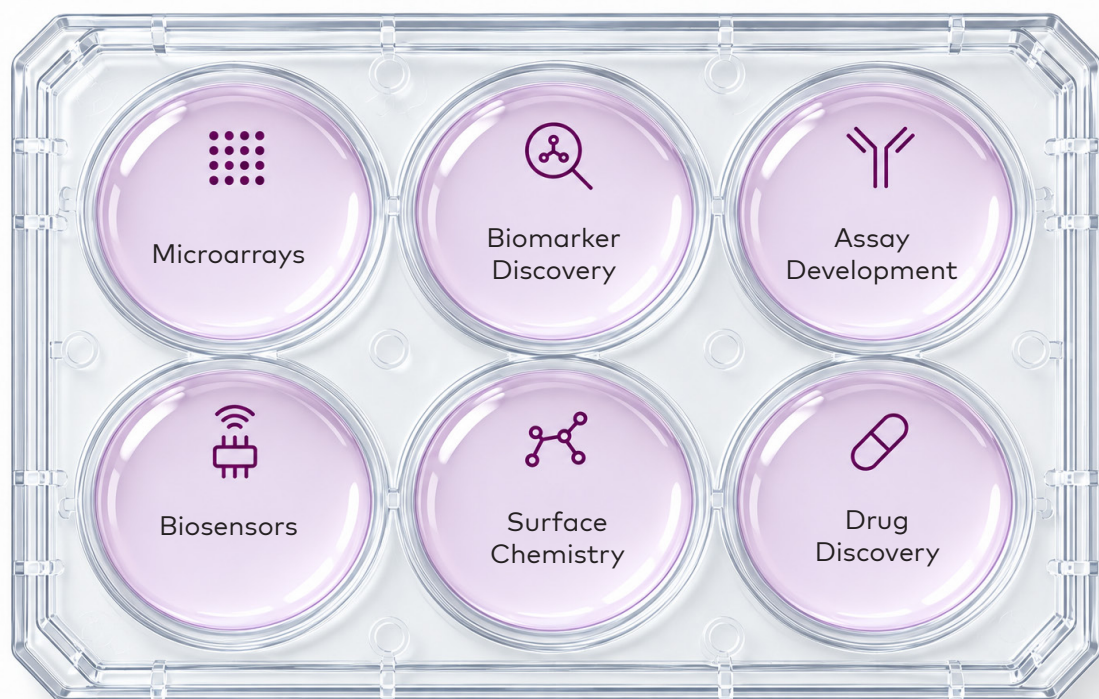
APPLICATION UNIVERSE

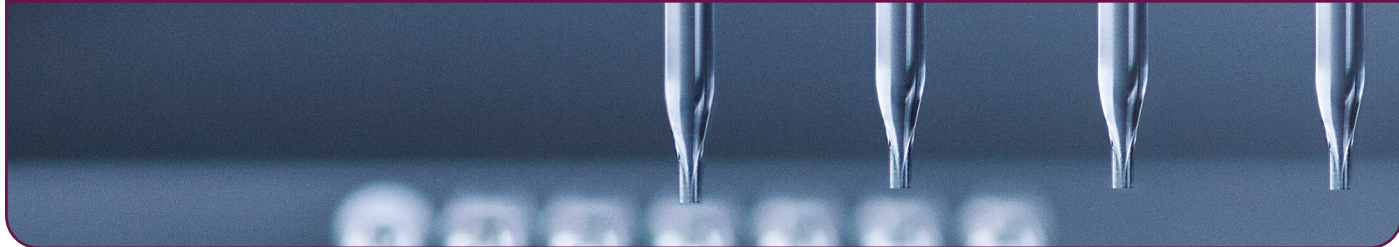
LIFE SCIENCE RESEARCH

- Biochemical spotting
- Screening workflows
- Sample preparation

MICROARRAY PRODUCTION

- Protein arrays
- Antibody arrays
- Custom array development



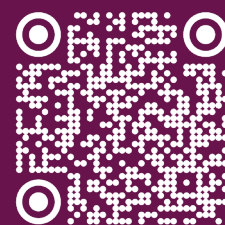


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Key Benefits

- Compact pre-configured system with fully enclosed operation (everything you need to start dispensing)
- Accurate and reproducible liquid deposition of 20-800 pL per drop
- Integrated process monitoring and imaging
- Automated fluid management and cleaning
- Controlled environmental conditions for sensitive applications
- Flexible platform suitable for a wide range of substrates and reagents

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TO READ OUR
PUBLICATIONS



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Available Configurations

S3 CATALYST

STANDARD PLATFORM INCLUDING:

- Precision dispensing
- Imaging system
- Humidity control
- Automated fluidics
- Wash station

INCLUDED AS STANDARD:

- Precision picolitre drop dispensing system
- Single channel, upgradable to 4-channel fluidics architecture
- Integrated wash station
- High-resolution vision system
- Telecentric optics
- Humidity management system
- Industrial control PC
- Instrument control software

S3 CATALYST CHILLED

INCLUDES ALL S3 CATALYST FUNCTIONALITY, PLUS:

- Integrated temperature-controlled substrate holder
- Active heating/cooling capability
- Enhanced support for temperature-sensitive applications

S3 CATALYST BIOSENSOR

INCLUDES ALL S3 CATALYST FUNCTIONALITY, PLUS:

- Configuration optimized for biosensor development
- Precise deposition onto biosensor substrates
- Designed to accelerate assay and surface chemistry optimization

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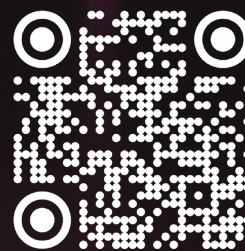
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