

Custom Microdispensing Solutions

DIAGNOSTIC APPLICATIONS

Biochips & -sensors
Diagnostic wearables
Microfluidic cartridges
Microneedles
Lateral Flow applications

OUR CUSTOM SOLUTIONS TEAM

Electronic & mechanical engineers
Software engineers
Biologists & surface chemists
Project management
QM & regulatory specialists

Project-specific solutions for diagnostics

SCIENION's sciFLEXARRAYERs are fully automated, non-contact, high precision, ultra low volume dispensing platforms tailored to all customer demands from research up to high-throughput production.

Equipped with SCIENION's technologies sciDROP PICO & NANO or any other dispensing technology, droplets as small as 10 pL up to 100µL can be dispensed.

They are customizable depending on project, design, and product specifications. This includes scalable, fully automated high-throughput production lines, and new innovative concepts for moving carriers and substrates.

sciFLEXARRAYER S100



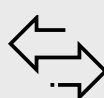
From 10 pL drops
– 5.000 nL jets



Scalable Through-
put by modularity



Different mover
strategies



Customer designs
&/ requirements



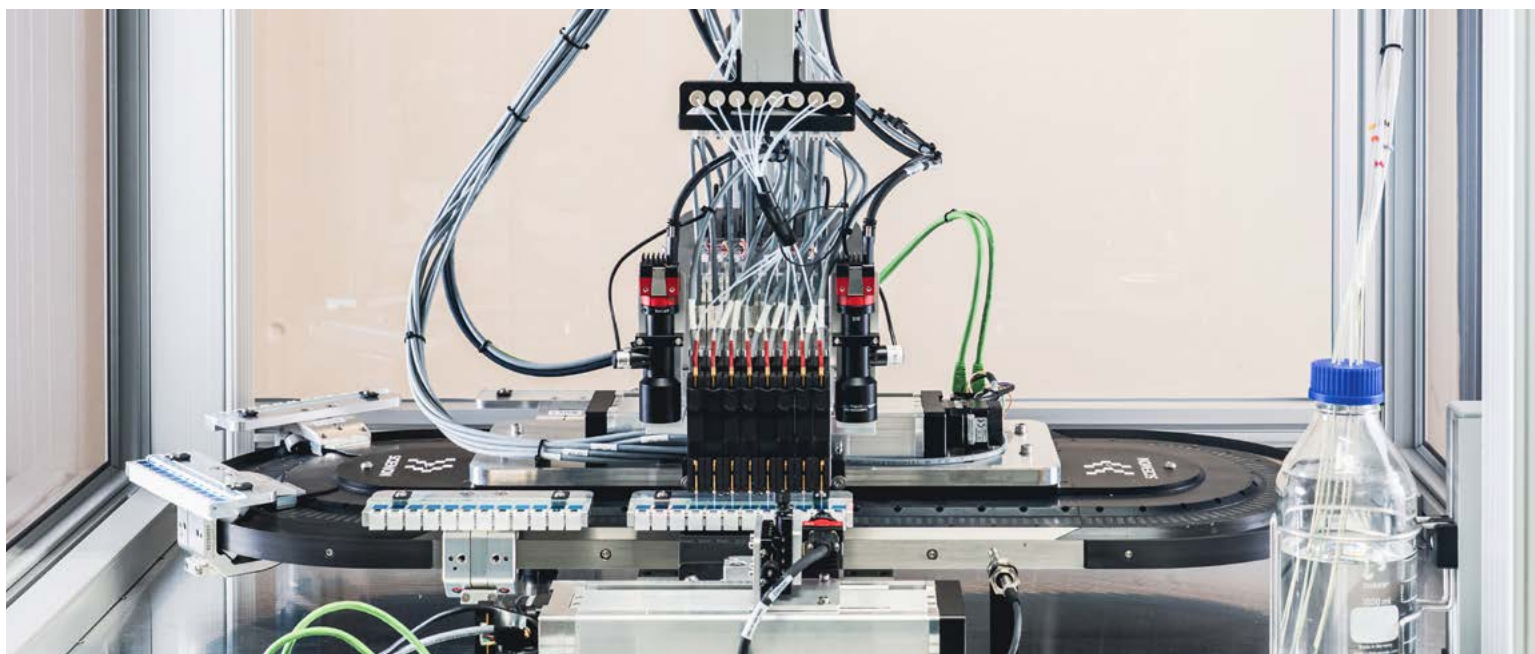
Broad range of
ADD-ON's



Integration of various micro-dispensing technologies

Scienion's key technologies are piezo dispensing capillaries, which not only allow volumes of 10–800 pL to be dispensed, but can also be optimised for specific samples using various coatings.

However, other dispensing technologies can also be integrated, e.g. to dispense more viscous solutions or higher-volumes (up to 5 µl per jet).



Customizable to your needs

The main difficulty in any development project is often the transition from small scale to production. sciFLEXARRAYER S100s are being used by many diagnostic companies around the world.

This modularity allows precisely configuring the system to the required production volumes. It meets the high throughput production requirements

of most bioarray formats like microplates, slides, wafers and a variety of biosensors. Additional modules can be integrated such as for loading/-unloading (incl reel to reel), stacking, environmental control, heating and drying, UV treatment quality control as well as components from other suppliers.

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