

PicoSpotter

COMPACT ENTRY-LEVEL PICOLITRE DISPENSING SYSTEM



Flexible open-access platform desktop system suitable for R&D.

This entry-level system is affordable, compact, easy-to-use and flexible in its configuration. The PicoSpotter is the ideal instrument for early stage R&D. The open-access dispensing platform can host a wide variety of target substrates and gives the user the maximum possible access to the dispensing deck.

The system is designed to fit into most fume cupboards or laminar flow hoods, requires no specialist installation and users are up and running within an hour. Widely used in University and Industry based R&D labs worldwide to dispense materials such as: proteins/antibodies; DNA; living cells; radio-active isotopes; and nano-materials; etc.

FEATURES & BENEFITS

Patented disposable dispensing cartridge technology

No cross-contamination by design, change fluids in a matter of minutes, no wastage of precious fluids, with a nozzle anti-clogging feature.

Open-platform

Open-platform design for maximum accessibility, flexibility and simplicity. Dispensing deck has 2 locating dowels for user specific custom target substrate holders.

Ultra-low volume dispensing

Single microdrop volumes can be programmed to be any volume in the range of 5pl to 120pl (contingent on well-engineered fluids).

Target alignment camera

Allowing precise point-and-shoot dispensing for simpler, faster target alignment and inspection.

Exceptional dispensing speed

Maximum dispensing rate 10,000Hz (drops per second).

Out-of-the-box ready

Simple and easy to use micro dispensing system, ready to go out-of-the-box, in a compact benchtop footprint.

Ongoing software upgrades

Keep up to date with the latest features and capabilities. (Optional).

1-year & extended warranties

Includes a 1-year parts and labour, return to factory warranty. Option to extend the warranty for 3 to 5-years also available.



APPLICATIONS & MATERIALS

Our micro dispensing system is proven to deliver for a wide range of applications and materials, including:

- ✓ DNA / RNA
- ✓ Sensor technology
- ✓ Proteins / Antibodies
- ✓ Micro electro mechanical systems (MEMS)
- ✓ Living cells
- ✓ Coatings
- ✓ Nano-materials
- ✓ Microneedles
- ✓ Adhesives
- ✓ Microarrays

ACCESSORIES

Additions, upgrades and replacement parts.

A wide range of accessories including cameras, dispensing cartridges, maintenance kits and more.



Target Viewing Camera

The vertical target viewing camera is an invaluable accessory to assist in the precise alignment of dispensed microdrops and the target locations.



Dispensing Cartridges

Polypico offer an off-the-shelf range of dispensing cartridges with different orifice sizes, for immediate delivery. Standard orifice sizes include: 30µm; 50µm; 70µm; 100µm and 120µm.



Filling Bridge

Filling bridges make the filling of dispensing cartridges from 96 well plates simple and easy to do. They are also a convenient way of storing dispensing cartridges.



Suction Cups Adapter

Suction cup adapters fit standard 200ul pipettes. Suction cup adapters are used when aspirating fluids into dispensing cartridges.



Maintenance Kits

Service and maintenance kits are available for the PicoSpotter systems / robotics platform, which consists of lubricants and instructions on the cleaning and reapplication of lubricants.

SPECIFICATIONS

Robotics Accuracy	X,Y,Z resolution: 1µm X and Y precision: +/- 50µm Z precision +/- 100µm
Speed	20mm/s
Dimensions	552mm Length x 440mm Width x 510mm Height
Weight	15kg
Enclosed	Open access platform
Working Area	130mm x 350mm
Number of SBS well plate holders	1 as standard (up to 4 possible)