

Manual Control Dispensing System

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Most intuitive microdrop dispensing system designed to accelerate research and development applications.

Compact microdrop dispensing system. Intuitive and simplified user interface, which empowers the user. Compatible with an optional drop-watch-camera system.

FEATURES & BENEFITS

User friendly intuitive microdrop dispensing system

Simplified generation of microdroplets which puts you in control.

Droplet generation from multiple trigger sources

Microdrop trigger sources including: internal frequency source; external trigger pulse; and manual single microdrop dispense button.

Synchronised stroboscopic light source output

System includes stroboscopic light source output, which can be used in conjunction with an optional drop-watch-camera.

Compact system designed to simplify research and development

Compact control system for the robust and reliable generation of picolitre microdrops.

Affordable system

An accessible microdrop dispensing systems – simple, reliable, and cost effective.

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.

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:

- ✓ Microdrop generation
- ✓ Dispensing of living cells
- ✓ Dispensing of inks
- ✓ Dispensing of nano-materials
- ✓ Dispensing of active pharmaceutical ingredients
- ✓ Dispensing of DNA; mRNA; proteins; antibodies; etc.
- ✓ Dispensing of organic/inorganic compounds
- ✓ Dispensing of cyanoacrylate (super glue)

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

Frequency ranges (internal source)	0 – 100Hz; 100Hz – 1kHz; 500Hz – 5kHz
Dispense trigger sources	Internal source; external source; push button single shot
Dispense pulse parameters	Amplitude; width; frequency
Strobe pulse parameters	Strobe pulse delay relative to dispense event; strobe pulse amplitude
External trigger source	Low level 1v; high level 4v
Optional drop-watch-camera	Stroboscopic camera accessory