nLDM - Nano Liter Dispense Module

3Dispense • Liquid Handling for Life

Flexible Non Contact Nano Liter Volume Dispensing For:

Stem Cell Research & Cancer Biology

- Customized cell arrays/cell-based assays
- Automated cell dispensing for High-content analysis
- Cell-Cell interaction studies
- Cell-Drug interaction studies (e.g. Drug screens)
- Cell culture in Hydrogels
- Biofabrication / Bioprinting research
- Tissue Engineering
- Regenerative Medicine
- Micro Arrays

• Can print droplets of volumes ranging from <10 nL to full syringe volumes.
• Capable of gentle handling of cells, maintains high cell viability of delicate and robust cells alike.
• Able to dispense fluids with a wide viscosity range, ranging from viscosity comparable to water e.g. typical cell media, to highly viscous media / solutions such as 1-2% Alginate or 30% Polyethylene glycol.
• Development software provided offers flexibility and ability to customize.
• Compact 170mm x 110mm x 60 mm size support integration into liquid handling robots.
• Configure to provide pulsation free fluid or air flow for microfluidics.

Works similar to a syringe pump but provides non contact dispensing below typical syringe pump capability.

The 3Dispense nLDM gives the user full control over critical dispense parameters such as droplet volume, and dispense velocity.

Programmable front panel switches provide functions:

Prime:	Prime system from bulk reservoir with reagent or backing fluids.
Aspirate:	Aspirate a given volume via the probe
Dispense:	Dispense single desired volume or multiple dispenses on command.
Purge:	Purge sample and all solutions

The nLDM can be used as standalone or integrated into liquid handling platforms and instrumentation such standard microtitre plates,

Visit 3Dispense.com to contact us with application specifics

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