

# Nanodrop™ I



[www.innovadyne.com](http://www.innovadyne.com)

*leading the way in high-precision dispensing*



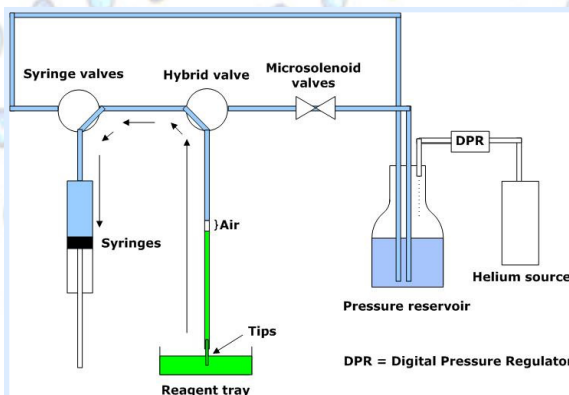
**Nanodrop I Non-contact Dispense System**

The **Nanodrop I** is an 8-channel, high-precision pipetting instrument that enables rapid, non-contact dispensing of reagents into 96-, 384-, and 1536-well plate formats. The Nanodrop aspirates and dispenses a broad range of liquids, including DMSO, by utilizing a technology that isolates the solenoid actuator from the sample path. The result is a robust, flexible liquid handling system that dispenses 100 nL through 40  $\mu$ L, with CVs below 5%, measured across 8 tips. The instrument also offers an RS-232 interface and a user-friendly GUI that is readily integrated into fully automated systems.

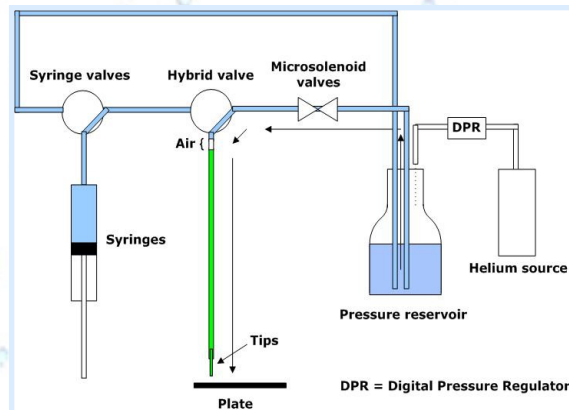
The **Nanodrop I** is based on patented technology owned by Innovadyne Technologies, Inc.

## Features

- Nano-precision dispensing
- Exceptional dynamic range
- Non-contact, high speed delivery
- True aspirate and dispense
- Modular stage/fluidics design
- Individual channel articulation
- Highly controlled, precise delivery
- Actuator isolated from the sample path
- 96, 384, 1536, and 3456-well plates



**System Schematic - Aspirate**



**System Schematic - Dispense**

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# Nanodrop™ I Specifications

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## Performance Specifications

<b>Throughput (1 µL non-stop dispense)</b>	
<b>96-well plate</b>	5 s
<b>384-well plate</b>	10 s
<b>1536-well plate</b>	15 s
<b>Dispensing Range</b>	0.1 - 40 µL
<b>Dispense Modes</b>	Non-stop, discrete stop, in-the-well
<b>Dispensing Precision</b>	CV ≤ 10% at 100 nL CV ≤ 7% at 200 nL CV ≤ 5% at 1 µL
<b>Dispensing Accuracy</b>	±10% at 100 nL ±7% at 200 nL ±5% at 1 µL
<b>Dead Volume</b>	At 1 µL and with 384-well plates: approximately 12 µL
<b>Syringe Capacity</b>	500 µL, 1000 µL

## Technical Specifications

<b>Dimension</b>	<b>Fluidics Module</b>	<b>Stage Module</b>
<b>Height</b>	33.0 cm (13 in)	22.9 cm (9 in)
<b>Width</b>	27.9 cm (11 in)	27.9 cm (11 in)
<b>Depth</b>	44.5 cm (18 in)	38.1 cm (15 in)
<b>Weight</b>	11.3 kg (25 lb)	7.0 kg (15.5 lb)

<b>Environmental</b>	10 to 40°C, 80% RH
<b>System Gas</b>	Standard grade helium (99.7% pure)
<b>Dispense Tips</b>	304 SS, sapphire
<b>Reagent Trays</b>	Two 10 mL units, disposable
<b>Interface</b>	RS-232, Nanodrop software

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