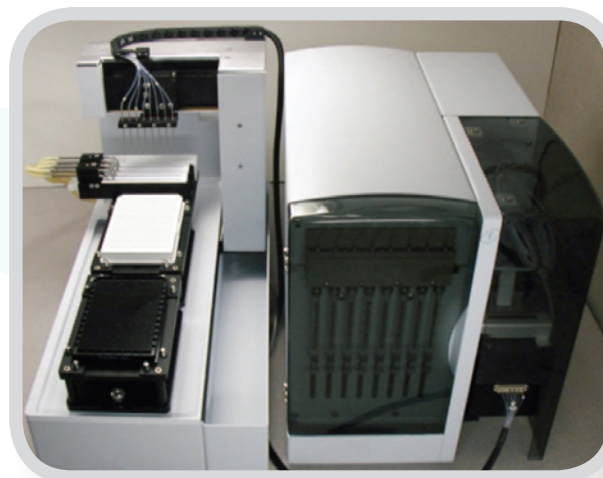


Nanodrop II/Nanodrop Express

LOW VOLUME AUTOMATED PIPETTING

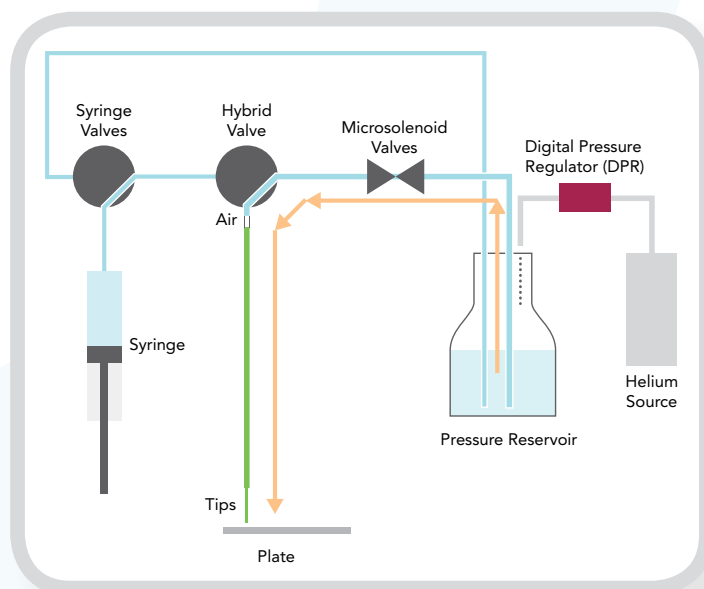
- *Low volume (100 nL and above), high-precision dispensing*
- *Aspirate and dispense with individual channel volume control*
- *Capable of dispensing a different volume into every well*
- *Pipette up to 8 or 16 reagents simultaneously*
- *Valve-free flow path*
- *Automation friendly*



Nanodrop II Low-Volume Automated Pipettor
8 Channels.

For a complete high-throughput solution for low-volume, high-precision pipetting, try the 8-channel Nanodrop II or the 16-channel Nanodrop Express. Each system has interchangeable, fixed-tip heads (1x8 or 2x4 configurations for the Nanodrop II and 1x16 or 2x8 configurations for the Nanodrop Express) and comes with two plate positions that enable applications such as assay miniaturization, DNA normalization, method development, PCR and NGS reaction setup, or protein crystallography.

The Nanodrop technology aspirates and dispenses a broad range of liquids, including DMSO, and features the Nanobuilder software system that enables a wide range of applications and data manipulation. This patented technology isolates the solenoid dispense actuators from the sample path to assure long life and easy, low-cost maintenance — even with regular use of difficult suspensions such as proteins, cells and YOx beads.



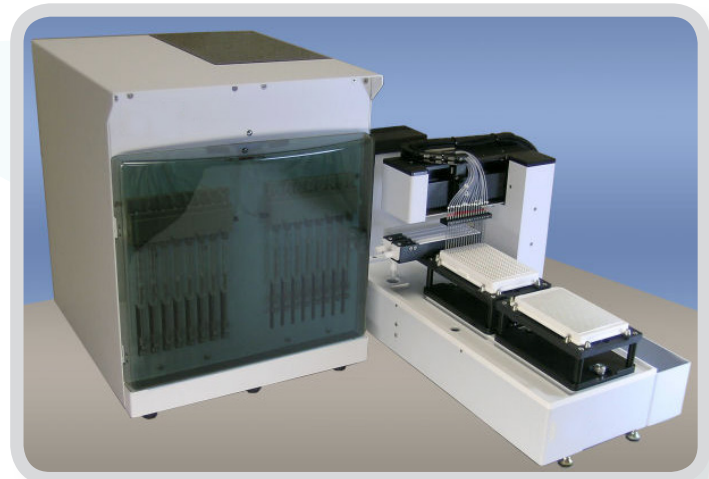
Simple Flowpath Increases Reliability.

Key Features and Benefits

- Sample transfer and bulk reagent addition on the same platform
- Aspirate and dispense with individual channel volume control
- Interchangeable 1x8 to 2x4 head; or, 1x16 to 2x8 heads
- Micro solenoid valves for fast, precise low-volume applications and mixing
- Exceptional dynamic range (nanoliter to milliliter)
- Valve-free fluid path for outstanding reliability
- FEP, SS, sapphire wetted parts compatible with commonly used solvents
- 96-, 384- and 1536-well plate formats, irregular and flat plate formats supported
- Deep well and crystallography plates supported
- Easy to program, easy to automate
- Simple cleaning and maintenance

Typical Applications

- PCR template and cocktail additions
- DNA normalization
- Assay miniaturization
- Serial dilution
- Cell plating
- Sample transfer
- Bulk reagent addition
- Protein crystallography screens
- MALDI plate spotting



Nanodrop Express Low Volume Automated Pipettor
16 Channels.

Performance Specifications

- Dispense Range: 0.1–80 μL (microsolenoids) or 5–500 μL (syringes)
- Dispense Precision (CV)/Accuracy:
 - $\leq 10\%$ at 100 nL
 - $\leq 7\%$ at 200 nL
 - $\leq 5\%$ at 1 μL
- Aspiration Range: 0–500 μL or 0–1000 μL
- Dead Volume: $<3 \mu\text{L}/\text{channel}$
- Cycle Time: 10 s/transfer
- Number of Tips/Channels: 8 or 16 fixed tips

General Specifications

- Dimensions:
 - Nanodrop II Fluidics: 13" H x 11" W x 18" D
 - Nanodrop Express Fluidics: 13" H x 22" W x 18" D
 - Stage: 12.7" H x 9.7" W x 21.1" D
- Weight:
 - Nanodrop II Fluidics: 25 pounds
 - Nanodrop Express Fluidics: 50 pounds
 - Stage: 29.5 pounds
- Automation Control: .NET DLL components
- Interface: RS-232 connectivity, Nanobuilder software