

Innovadyne™ Dispensing Instruments



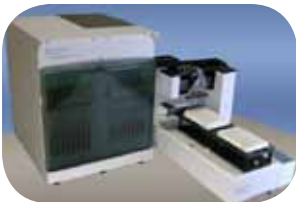
Nanodrop ExtY

Utilizing the Nanodrop series fluidics module, the **Nanodrop ExtY**'s design allows two sets of 4 tips each to dispense reagent to all wells of a standard SBS plate, facilitating rapid dispense of two reagents. Additionally, there are 4 tips that can access any well position for dispensing rare samples and reagents.



Nanodrop II

The **Nanodrop II** is a complete solution for low volume, high-precision pipetting. The system can be configured with one or two plate positions to enable applications such as assay miniaturization, method development, PCR reaction setup, and protein crystallography. As with the ExtY, 4 of the tips can individually access any well of a standard SBS plate, enabling complex method development and design.



Nanodrop Express

The 16-channel **Nanodrop Express** is our fastest benchtop system -- a complete high-throughput solution for low volume, high-precision pipetting. The Nanodrop Express doubles the dispense capacity and halves the aspiration time of a Nanodrop II. The Nanodrop Express can be configured with one-or two-plate stage modules, and interchangeable 1x16 or 2x8 tip heads specialized for reagent dispensing and 96-to-384 transfers, respectively.



Screenmaker 96+8™

The **Screenmaker 96+8** incorporates the company's non-contact dispense technology, coupled with traditional syringe dispensing. The unique combination of a 96-channel, non-contact dispense head coupled to an 8-channel head makes the instrument ideally suited for protein crystallography.

Product Specifications

	Nanodrop™ ExtY	Nanodrop II	Nanodrop Express	Screenmaker 96+8™
Plate Positions	1	2	1 or 2	5
8-Tip Head	Yes	Yes	-	Yes
16-Tip Head	-	-	Yes	-
96-Tip Head	-	-	-	Yes
Syringe Channels	8	8	16	16
1, 4 or 8-Tip Bulk Reagent Additions To All Positions	Yes	Yes	Yes	Yes
Plate Formats	96/384/1536 std, low profile, Xtal, and deep well	96/384/1536 std, low profile, Xtal, and deep well	384/1536 std, low profile, Xtal, and deep well	96/384/1536 std, low profile, Xtal, and deep well
Return-To-Spot Accuracy	0.1 mm	0.1 mm	0.1 mm	0.1 mm
Aspiration Range, 8-Tip Hd	0.1-500 µL	0.1-500 µL	0.1-500 µL	0.1-500 µL
Aspiration Range 96-Tip Hd	-	-	-	0.1-125 µL
Disp Range, 8-Tip Non-Contact	0.1-40 µL	0.1-40 µL	0.1-80 µL	0.1-40 µL
Disp Range, 8-Tip Contact	25-500 µL	25-500 µL	25-500 µL	25-500 µL
Disp Range (96-Tip Non-Contact)	-	-	-	0.1-125 µL
Dispensing Precision, 8-Tip Head	CV<10% at 100 nL CV<7% at 200 nL CV<5% at 1 µL	CV<10% at 100 nL CV<7% at 200 nL CV<5% at 1 µL	CV<10% at 100 nL CV<7% at 200 nL CV<5% at 1 µL	CV<10% at 100 nL CV<7% at 200 nL CV<5% at 1 µL
Dispensing Precision, 96-Tip Head	-	-	-	CV<15% at 100 nL CV<10% at 200 nL CV<5% at 1 µL
Dispensing Accuracy, 8-Tip Head	±10% at 100 nL ±7% at 200 nL ±5% at >1 µL	±10% at 100 nL ±7% at 200 nL ±5% at >1 µL	±10% at 100 nL ±7% at 200 nL ±5% at >1 µL	±10% at 100 nL ±7% at 200 nL ±5% at >1 µL
Dispensing Accuracy, 96-Tip Head	-	-	-	±10% at 100 - 500 nL ±5% at >1 500 nL
Dead Volume, 8-Tip Head	1.5 µL/channel at 1 µL across 384-well plate	1.5 µL/channel at 1 µL across 384-well plate	1.5 µL/channel at 1 µL across 384-well plate	1.5 µL/channel at 1 µL across 384-well plate
Dead Volume, 96-Tip Head	-	-	-	<1 µL/channel
Syringe Capacity	500, 1000 µL	500, 1000 µL	500, 1000 µL	500, 1000 µL
Cycle Time, 8-Tip Head	20s/transfer <60s 1 µL reagent addition (1tip/96-well plate) <17s 1 µL reagent addition (8tips /1536-well plate)	20s/transfer <60s 1 µL reagent addition (1tip/96-well plate) <17s 1 µL reagent addition (8tips /1536-well plate)	10s/transfer <60s 1 µL reagent addition (1tip/96-well plate) <8s 1 µL reagent addition (8tips /1536-well plate)	20s/transfer <60s 1 µL reagent addition (1tip/96-well plate) <17s 1 µL reagent addition (8tips /1536-well plate)
Cycle Time, 96-Tip Head	-	-	-	180 s/transfer (includes wash)

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