

AD3220 Series: Precision Dispensing Solutions

High Speed Aspirating and Dispensing System

Applications

- DNA, Cell, Protein Dispensing
- Microarrays
- Multiplex ELISAs
- Biosensors
- Biochips, Lab-on-a-Chip
- Low Volume PCR
- Custom Applications



The AD3220 dispensing system offers superior positional accuracy, speed, and a large dispensing area. The AD3220 is designed for high speed aspirating and dispensing applications operations; from glass slides to microtiter plates to membranes or any custom surface.

Features/Benefits

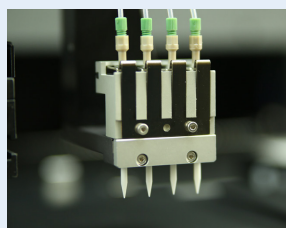
- Create High Quality Arrays
- Aspirate/Dispense and/or Bulk Dispense*
- R&D and Production Throughputs
- Volumes from 1.3 nL to > 2 μ L Single Drop*
- Non-Contact or Semi-Contact Dispensing*
- Up to 8 Dispensers
- Dispense onto Slides, Plates or Membranes
- Superior Service and Support

Description

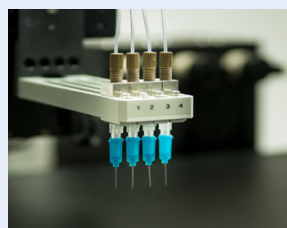
- Motorized X, Y, Z Axes
- Integrated Wash/Vacuum Station
- Flexible AxSys Control Software
- PC Control Workstation
- Nest Choice (Glass Slide, MTP, Vac/Mag, Custom)
- ILD5000 In-Line Degasser
- Optional Humidity Chamber

* Dispenser Type Dependent

BioJet



PolyDrop



To learn more about the AD3220, scan this QR code with your smart device:



General Specifications

Dimensions (L x W x H)

- 800 mm x 425 mm x 350 mm
- 31.5 in. x 16.73 in. x 13.78 in.

Weight

- 72.7 kg (160 lbs.)

Power Requirement

- 110/220 VAC; 50/60 Hz

Vacuum Requirement

- Vacuum Station: -15 to -20 inHg
- (381mmHg - 508mmHg)

Wash/Waste Station

- Wash Flow Rate: 2 mL/sec
- Waste Flow Rate: 4 mL/sec

Technical Specifications

Dispense Area

- 420 mm x 260 mm
- 16.5 in x 10.24 in.

Mechanical Precision

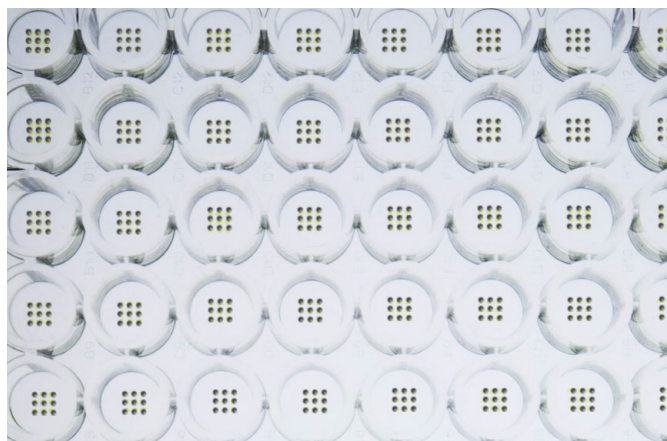
- X, Y and Z-Axis typically < 10 μ m

Choice of Nest (includes source, wash/waste)

- 8 Position MTP
- 50 Position Glass Slide
- Vacuum/Magnetic Hold Down
- Custom User Defined

Optional Humidity Pump

Optional Vacuum Pump



Dispensing Options

Number of Dispensers

- Up to 8 (any combination)

BioJet Elite Dispenser - Solenoid, Drop-on-Demand

- 1.3 nL - 2.0 μ L as a Single Drop*
- Multi-Drop Flexibility
- Volume Accuracy $\pm$ 5% of Target
- Volume Precision $\leq$ 10% CV at 20 nL

PolyDrop Dispenser - Syringe with Luer Tip

- Near contact volumes 25 nL - 200 nL*
- Non-contact volumes > 4 μ L*

*Table speed and/or reagent dependent



Fully Programmable Low Volume Dispensing System

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