

Omnia™: Low Volume Precision Dispensing System For When Drop Size Matters!

Dispense Discrete Picoliter, Nanoliter, and Microliter drops with unmatched speed and precision by combining our proprietary Rainmaker™ and BioJet™ dispensing technologies on one platform.

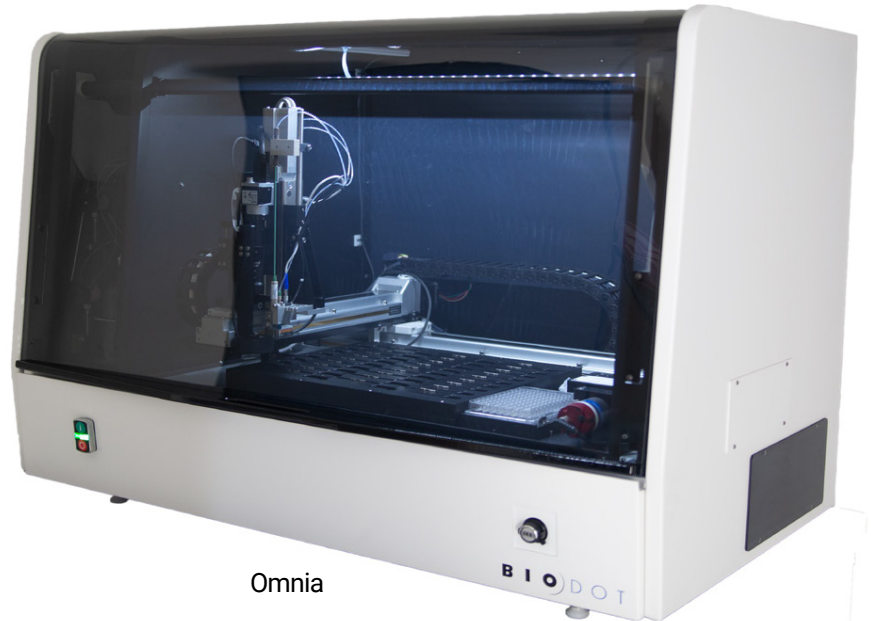
Features/Benefits

- Create high quality arrays
- Aspirate/Dispense and/or bulk dispense
- Improve R&D and production throughputs
- Volume ranges from picoliters to microliters*
- Print onto slides, plates, microfluidics, etc.
- Different dispenser choices for larger volumes or viscous reagents*
- User-defined dispense routines

*Dispenser type dependent

Additional Information

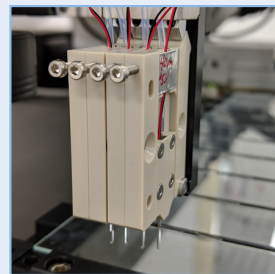
- Overhead gantry XYZ system w/ fixed nest
- Integrated wash/waste/vacuum station
- Link2020 software for easy programming
- Vision Lite camera system for positioning (fiducial and nonfiducial)
- Humidity Control
- ILD5000 In-Line Degasser



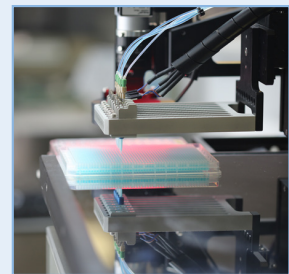
Omnia

Dispenser Options

Rainmaker 4 Channels



BioJet



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



Rainmaker™

General Omnia Specifications

Dimensions (L x D x H)

- 98 cm x 56 cm x 87 cm

Mechanical Precision

- X, Y, Z-Axis: < 5 µm
- X, Y resolution: 1 µm

Nest Options

- Includes 1 source plate station, wash/waste
- MTP 8 or 6 plates (w/drop verification camera)
- Slides 36 or 27 (w/drop verification camera)
- Vacuum/Magnetic hold down
- User-defined nest

Weight

- 90 kg

Power Requirement

- 110/220 VAC; 50/60 Hz

Vacuum Requirement

- Vacuum Station: -15 to -20 in Hg

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Omnia Dispensing

Number of Dispensers

- 1 to 4

BioJet Dispenser - Solenoid, Drop-on-Demand

- 1.3 nL - 2.0 µL as a single drop*
- Multi-drop flexibility
- Volume precision: < 5% CV*
- Channel distance: 9 mm

Ultra Dispenser - Piezoelectric, PEEK Capillary

- 100 pL - 1.0 nL as a single drop*
- Multi-drop flexibility
- Volume precision: 3% CV*
- Channel distance: 4.5 mm

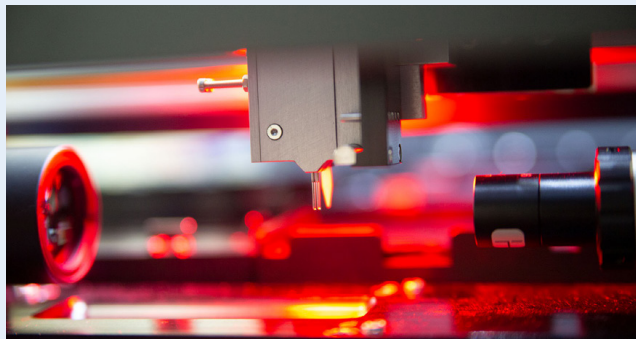
Rainmaker Dispenser - Piezoelectric, Glass Capillary

- 25 pL - Multi nL*
- Multi-drop flexibility
- Volume precision: 3% CV*
- Channel distance: 4.5 mm

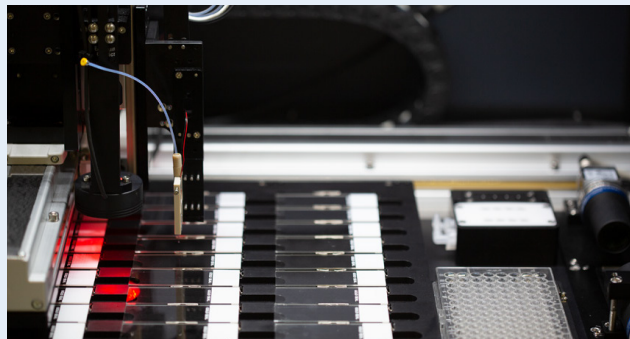
Dispensing Modes

- Step and repeat
- On-the-fly (continuous motion)

*Dispenser, speed, material and/or reagent dependent - Specifications subject to change without notice



Rainmaker & BioJet Dispensers



Glass Slide Deck w/Drop Verification Camera