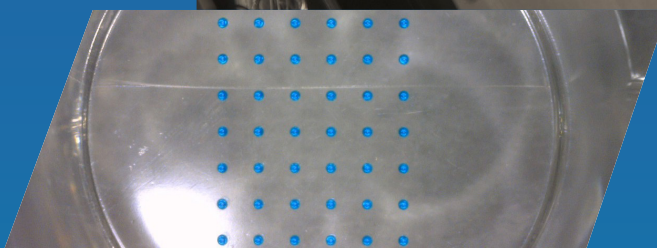
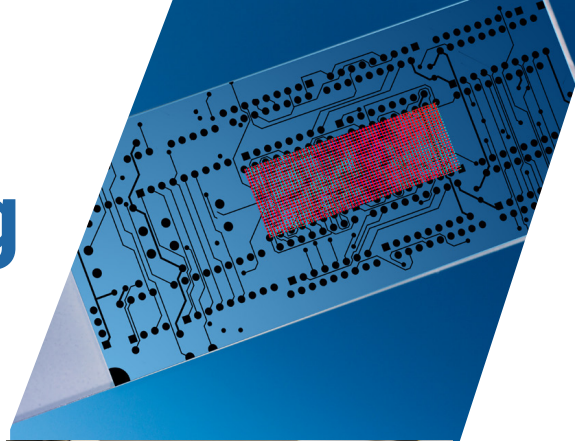


Low Volume Dispensing Systems for R&D and Manufacturing

Smaller. Faster. Smarter.

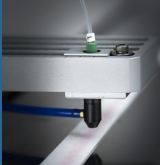
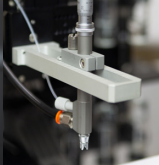
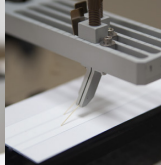
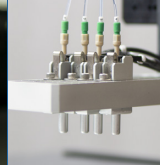
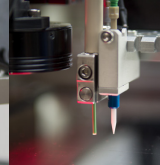
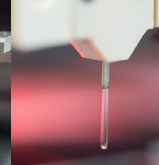


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BDM-DS-LWVOL-018-02

Dispensing Technologies and Motion Systems

							
Type	Aerosol	Aerosol	Contact tip	Near/non-Contact Drop on Demand	Non-Contact Solenoid	Non-Contact Piezoelectric PEEK Capillary	Non-Contact Piezoelectric Glass Capillary
Methods	Bulk Dispense	Bulk Dispense	Bulk Dispense	Bulk Dispense	Bulk Dispense Aspirate & Dispense	Bulk Dispense Aspirate & Dispense	Bulk Dispense Aspirate & Dispense
Print Modes	Lines	Lines	Lines	Step & Repeat	Lines Step & Repeat On-the-fly	Lines Step & Repeat On-the-fly	Lines Step & Repeat On-the-fly Multi Tip-on-the-fly
Line Volume	0.5 - 12 µL/cm	0.1 - 24 µL/cm	≥ 0.5 µL/cm	–	0.5 - 3.0 µL/cm	Material Dependent	Material Dependent
Line Width	0.5 to 6 mm	0.5 to 10 mm	0.25 to 2.5 mm	–	0.25 to 2.5 mm	Material Dependent	Material Dependent
Drop Volume	–	–	–	>25 nL	2.0 nL - 2 µL	100 pL to low nLs	25 pL - low nLs
Spot Size	–	–	–	>300 µm	>130 µm	130 - 900 µm	30 - 900 µm

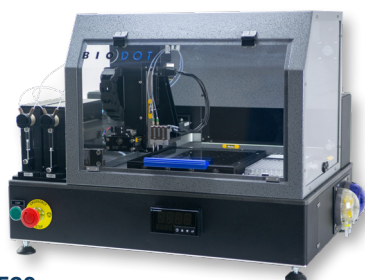
* Typical application ranges. Reagent, materials and speed dependent



	ZXLITE	ZX1010	XYZ3060	XYZ3210
Dispense Area	495 x 70 mm	495 x 70 mm	495 x 70 mm	495 x 260 mm
# Dispensers	1-4	1-8	1-8	1-8
X-Y Control	X- Motorized Y- Manual	X- Motorized Y- Manual	X- Motorized Y- Motorized	X- Motorized Y- Motorized
Z Control	Pneumatic	Pneumatic	Motorized	Motorized
Dispenser Types	µAirJet FrontLine	µAirJet AirJet FrontLine PolyDrop BioJet	µAirJet AirJet FrontLine PolyDrop BioJet	µAirJet AirJet FrontLine PolyDrop BioJet
Std Nest	Vac/Magnetic	Vac/Magnetic	Vac/Magnetic	Magnetic

Systems are hand held terminal controlled.

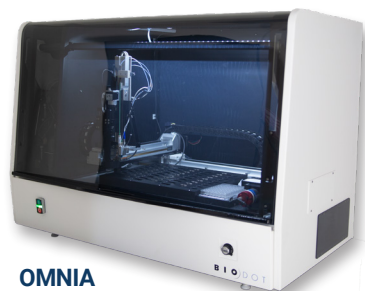
Aspirate and Dispense Platforms



AD1520



AD3220



OMNIA



AD6020

	AD1520	OMNIA	AD3220	AD6020
Type/Purpose	R&D	R&D, Low-Mid Volume Production	R&D, Low-Mid Volume Production	High Volume Production
Dispense Area	185 x 195 mm	365 x 250 mm	420 x 260 mm	470 x 555 mm
# Dispensers	1-4	1-4	1-8	1-16
Capacity and Nest Options	2 MTPs 14 Slides Vacuum/Mag Custom	6 or 8 MTPs 27 or 36 Slides Vacuum/Mag Custom	8 MTPs 50 Slides Vacuum/Mag Custom	20 MTPs 100 Slides Vacuum/Mag Custom
Vision Alignment	AD Lite	AD Lite	AD Vision PLUS	AD Vision PLUS
Dispenser Types	BioJet PolyDrop	BioJet Rainmaker Ultra	BioJet PolyDrop	BioJet PolyDrop Rainmaker Ultra
Resolution	1 µm	1 µm	1 µm	1 µm
Precision	< 5 µm	< 5 µm	< 5 µm	< 5 µm
Options	Anti Static Plate cooling Plate heating	Anti Static Plate cooling Plate heating HEPA filter	Anti Static Humidity Enclosure	Anti Static Plate cooling Plate heating HEPA filter
Dimensions	61 x 46 x 46 cm	98 x 56 x 87 cm	80 x 43 x 35 cm	147 x 118 x 156 cm

Systems include PC control, integrated wash/waste/vac station & humidity control (humidity not included on AD3220).
Specifications are subject to change without notice.



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