

BioJet™ Ultra

PIEZO, NON-CONTACT, LIQUID HANDLING AND SPOTTING SYSTEM

FEATURES AND BENEFITS

- Single Drop Dynamic Range 50 pL to 1.0 nL
- Multidrop Drop up to 1 µL
- Change Volume Ranges on the Fly
- Low Cost Capillary System
- Dispenses a Wide Range of Reagent Viscosities Including Aqueous, Organic & Living Cells
- Dispense to:
 - Slides
 - Microtiter Plates
 - Biosensor/Microfluidics Devices
 - Membranes
 - Other Substrates
- Multiple Dispenser Configurations
- Process in “Batch” or “In Line” Modes

PERFORMANCE

Minimum Volume

- 0.050 nL

Maximum Volume (Single Drop)

- 1.0 nL CV's ≤ 2%

Maximum Volume (Multidrop)

- 1.0 µL CV's ≤ 2%

Approximate Minimum Drop Size (hemisphere)

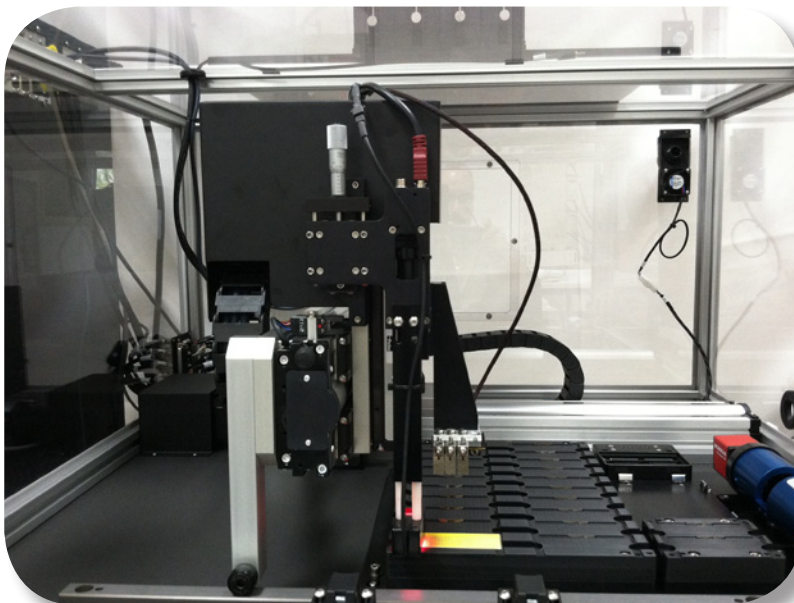
- 50 µm

Minimum Line Width

- 0.10 mm

Maximum Line Width

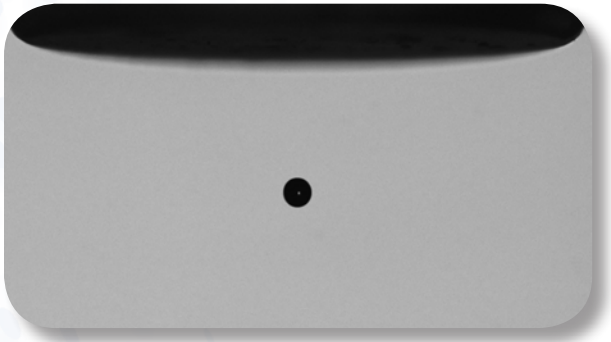
- 0.30 mm



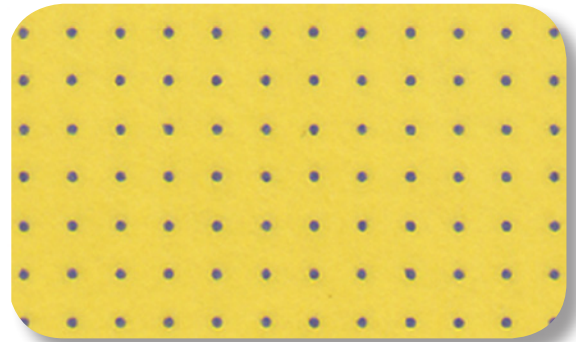
BioDot's BioJet Ultra Piezo System is a non-contact liquid handling and spotting system utilizing a proprietary drop on demand technology. The unique approach of the Ultra has the piezo element separated from the dispensing capillary, allowing the use of a low-cost capillary compared to other piezo dispensing systems. The BioJet Ultra dispenser works over a wide dynamic volume range; from Single Drop (50 pL to 1.0 nL) to Multidrops (up to 1 µL) with CV's less than 2%. Unlike other piezo dispensing approaches, a wide range of reagent types (e.g. aqueous, organic, cells) as well as high viscosity reagents (e.g. 50-75% glycerol/water), can be both aspirated and dispensed due to the unique design of the BioJet Ultra Piezo dispenser. Depending on the application, the Ultra dispenser can be configured in a “Batch” or “In Line system” arrangement.

BIOJET ULTRA

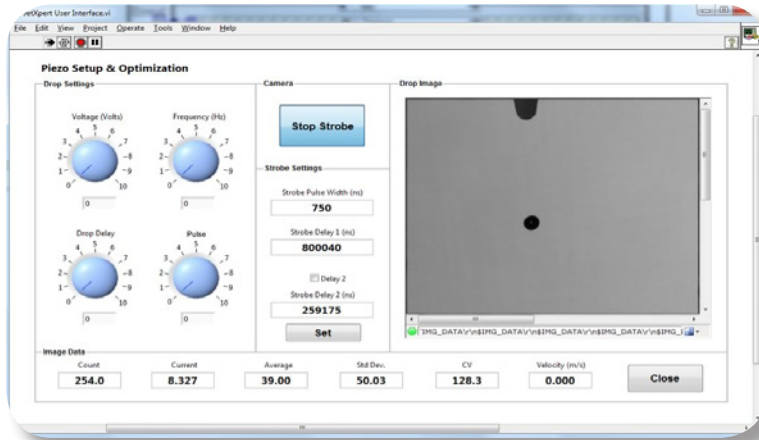
PIEZO LIQUID HANDLING & SPOTTING SYSTEM



50 pL Drop "in flight"



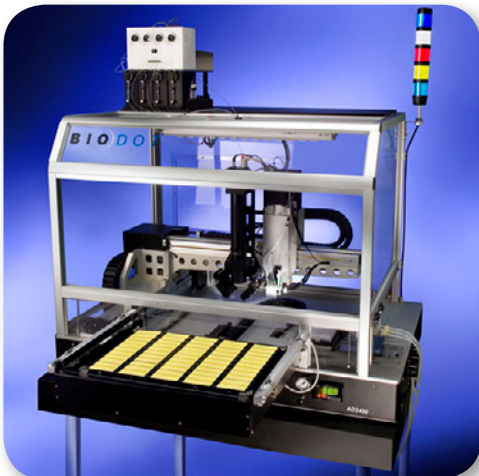
5 μ m SD on Placement with 2% CV
Piezo Dispenser: 200 pL Drops



Easy-to-use Software Interface

DISPENSING TECHNOLOGY CAN BE CONFIGURED WITH A "BATCH" OR "IN LINE" PROCESS

Batch Process



In Line Process

