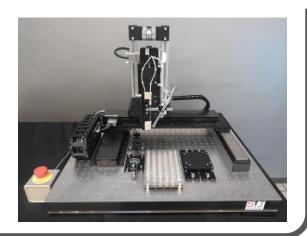
Pico-dispensing system — BIO Drop—

- Picoliter dispensing
- · Automatic filling & cleaning
- Up to 16 ink reservoirs
- Easy operation
 Click-based programming
 User-friendly interface





Outline

Dispensing nanoliter to picoliter
 Various kinds of liquids are usable (Functional material, organic ink, protein, DNA solution, reagent)
 Automatic filling and cleaning system for contamination-free dispensing with a single nozzle
 Camera for monitoring dispensed droplets



Advantages

- User-friendly interface
- Inkjet parameters are controllable while watching droplets being dispensed, even during printing.
- Simply click to dispense liquids at points to create a program.





Applications

- Spotting with functional materials for electronic sensors (e.g. tongue and nose)
- Synthesis of organic materials, proteins, reagents

Just click dispensing points, inks and numbers of droplets



Specifications

Item	BIO Drop (SBP-3020)
Driving axes	3 axes (X, Y, Z), gantry type, table top
Driving type	Ball screw + Stepping motor
Maximum working area	X 300mm, Y 200mm, Z 85mm
Maximum print area	X 100mm, Y 100mm
Inkjet type	Piezo type (automatic filling and cleaning)
Viscosity	1-20mPa.s (depends on use case)
Nozzle I.D.	30, 50, 70μm
Inkjet volume	20, 90, 180 pl (depends on use case)
Customized options	Large work area, multi-head, environment control chamber etc.

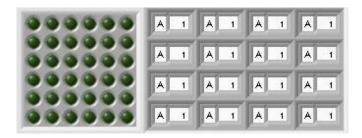


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Pico-dispensing process

Step1. Click dispensing liquids, points, the numbers of droplets

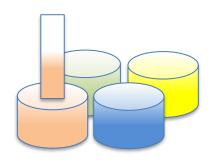




Step2. Liquid A is charged into the nozzle automatically.

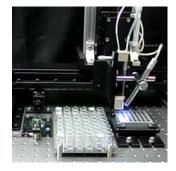


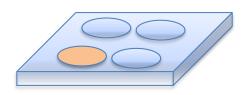




Step3. Liquid A is dispensed according to the program.

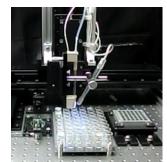


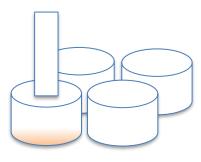




Step4. Liquid A is discharged and the nozzle is washed.



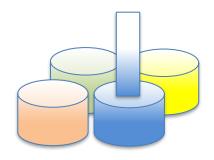


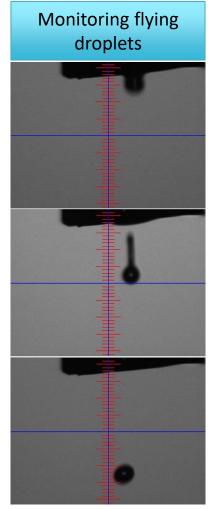


Step5. Liquid B is charged automatically.









of droplets

Control the numbers

