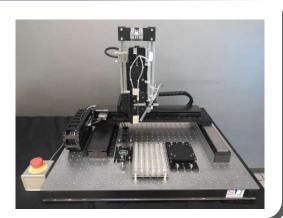
Pico-dispensing system — BIO Drop—

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





Outline

■ Dispensing nanolitre to picolitre

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.



Address

5-9-5 Tokodai, Tsukuba, Ibaraki 300-2635, Japan

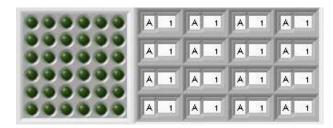
Phone E-mail
+81-29-896-5110 info@sijtechnology.com

www.sijtechnology.com/en

Pico-dispensing process

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





Step2. Liquid A is charged into the nozzle automatically.

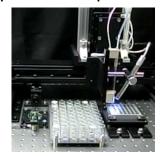


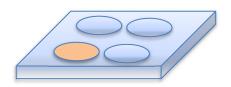




Step3. Liquid A is dispensed according to the program.



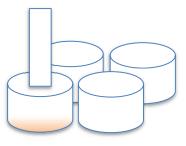




Step4. Liquid A is discharged and the nozzle is washed.



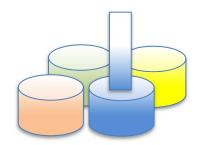


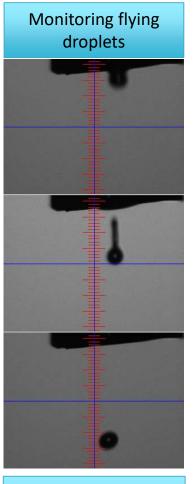


Step5. Liquid B is charged automatically.

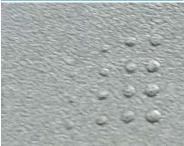








Control the numbers of droplets





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