

# ImmunoJet-1000



## Piezo inkjet-type quantitative immunochromatography dispensing device

Realizes letter-printing and dramatically-increased precision by digital control of dispensing volume

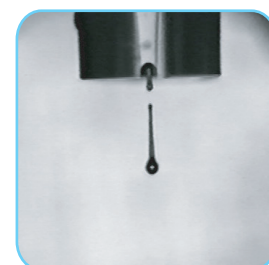


Aspirating-type piezo head mounted

Full of new functions first in the industry

### Features

- 1 Uniformity in lines and dots by piezo inkjet
- 2 Automatic measurement functions enables to control dispensing volume on demand
- 3 Stabilized dispensing quality by monitoring dispensing condition with CCD Camera
- 4 Easy recognition by marking function of numbers and alphabets (optional)
- 5 Easy operation by auto fulfillment and auto maintenance
- 6 Offers upgradable system which covers from laboratory use to production facility



Examples of letter-printing by antibody

### Applications

- Immunochromatography reagent development
- Dispensing experiment for reagent and antibody
- Small lot production, and prior examination of mass production

Dispensing Area	max. 100×300 mm
Head#	standard : 2 . max : 4
Applicable viscosity	0.5 - 40mPa·s
Dispense minimum liquid volume	0.2cc

※Stable dispensing depends on fluid type.  
 ※Actual equipment might vary from the picture  
 ※Specifications are subject to change without notice

# ImmunoChromato dispensing device

## ImmunoJet-1000 specifications

Model	ImmunoJet-1000
Configuration	Main unit (XYZ axis automatic control), touch-screen monitor, application software
Size	W750 × D380 × H410 [mm] ※ lug part not included
Dispensing nozzle	Piezo type single nozzle inkjet head: 2pcs (option: possible to mount up to 4 pcs)
Dispensing mode	Depending on possible preparing fluid volume, choose ultramicro mode (approx. 150 ul), micro mode (approx. 600 ul) or tank mode (more than 1 cc)
Dispensing patterns	Choose line, dot and letter (numbers, alphabets and marks)
Dispensing volume	0.1 ~ 2 $\mu$ L/cm (line dispensing), possible to apply more than 100 pcs max. as 1 line of 30 ul with standard container (tank mode operation)
Dispensing volume measurement	Automatic measurement by measuring instruments for internal organs (option)
Dispensing volume control	Arbitrary setting by 0.1 ul on touch-screen (option)
Minimum fluid to dispense	150ul ※ ultramicro mode operation
Ejection monitoring function	Monitoring of droplet ejection condition from head by CCD camera
Applicable viscosity ※ 1)	0.5 ~ 10 mPa·s
Dispensing fluid	Antibody, antigen, DNA solution, reagent, protein solution, cell content fluid, high molecular fluid, nanoparticle fluid (Au, Ag) etc.
Reagent container	Corresponding tube and glass container
Dispensing area	100 × 300 [mm]
Table movement speed	200mm/s (MAX) ※ Maximum speed is limited depending on line width
Table movement accuracy	X repetition alignment accuracy: within $\pm 20 \mu$ m
Fixation of membrane	Choose magnet-fixed table or vacuum table
Power supply/power consumption	Single phase AC100V $\pm 10\%$ 350VA or less
Operating environment	15 ~ 30°C 20 ~ 70%RH
Options	Marking of administrative numbers, alphabets and line dispensing positions on to membrane, monitoring of dispensing condition and capturing pictures by CCD camera, recording dispensing history etc.

※1) Depending on fluid type, stable dispensing may not be available.

※ Specifications are subject to change without notice.