

MICROJET PJK series



Inkjet dispensing experiment kit (Disposable piezo type PipeJet)

Exchange only the pipe
which physically touches fluids



PipeJet



Head Controller

PJK-200H
<Head kit>
PipeJet+Controller+Software



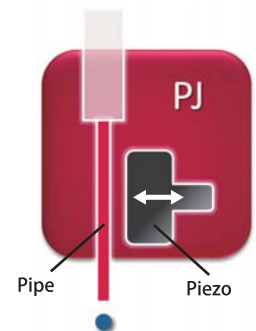
PJK-200S
<Droplet observation kit>
HeadKit+CCD+Lens+Stand

Features

- 1 Digitally-controls nanoliter droplets by piezo system
- 2 Disposable structure eliminates need for cleaning and reduces running cost
- 3 Possible to build in your own equipment
- 4 Used for high viscosity liquids (up to 400 mPa·s for non-heated liquids)
- 5 Minimum required liquid volume: 10 microliters or less

Applications

- Dispensing by nanoliter of DNA, protein, antibody and reagent
- Dispensing of cell fluids and bead fluids
- Dispensing of liquid materials for printed electronics
- Dispensing of flux, adhesive and UV curing fluids



Low-High
viscosity fluid
applicable
0.5~400
mPa·s



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

Inkjet dispensing experiment kit

PJK series specifications

Models	PJK-200H	PJK-200S
Applications	Fluid ejection testing	Experiment, observation and measurement of fluid ejection
Configurations	PipeJet, controller, application software	PipeJet, droplet observation unit, stage, controller, strobo controller, application software
Inkjet head	PipeJet Nozzle diameter: 200, 500 μ m	
Head operating conditions	Dispensing volume, shots number etc. (Dispensing signal available with external trigger) ※ Detailed setting available with application	
Dispensing fluid volume	5~60 nl/droplet, maximum frequency 100 droplet/sec. ※ Depend on head types, and fluid used	
Head applicable viscosity※1)	0.5~400mPa·s ※ Depend on head types, and fluid used	
Droplet observation function	None	Standard equipment: strobo unit, strobo control unit, CCD, zoom microscope Options: Capture application etc.
Dispensing fluid	DNA, protein, antibody, cell fluid, biomaterial, ink, high molecular fluid, nanoparticle fluid, aqueous, oil, solvent etc.	
Cleaning	Manually applying pressure Change only pipe unit when clogging is not recovered	
Power supply	Single phase AC100V \pm 10% 500VA and below	
Available environment	15~30°C 20~70%RH	

Inkjet head

Head type	Features	Head heater	Applicable viscosity [mPa·s]	Dispensing fluid volume [nl/droplet]
PipeJet	Disposable, dispensing big volume fluid	None	0.5~400	5~60

※1) Stable dispensing depends on fluid type.

※ Applicable viscosity varies by dispensing fluid volume.

※ Specifications are subject to change without notice.