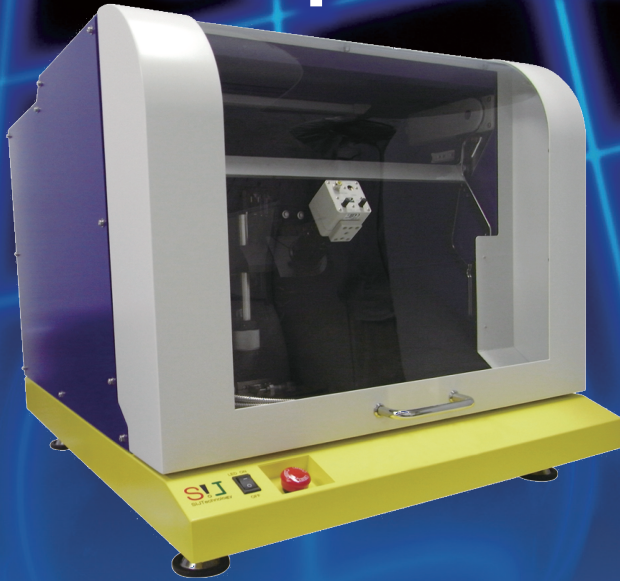


SIJ - the 1micron R&D print system

Super Inkjet Printer



Features

Smallest droplet

Droplet volume : 0.1 fL(femtoliter) - 10 pL

Wide range of viscosity

Viscosity range : 0.5 - 10,000cps (non-heated)

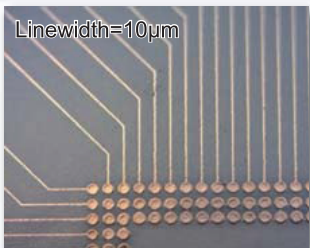
Researcher-proven

Many relevant patents and papers

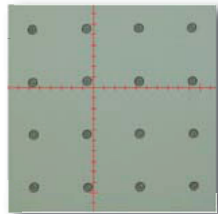
The SIJ (Super Ink Jet) platform is an advanced microdeposition system for the digital printing of ultra-precise micron-scale structures. SIJ technology allows printing with femtolitre drops that are 1/1000th of the size of conventional inkjet droplets. The SIJ system has been used to print a very wide range of functional materials including conductive inks, dielectrics, semiconductors, optical materials, biological materials etc.

Patterning Examples

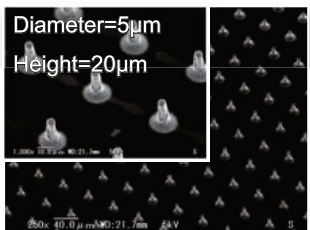
■ Registered patent : US PAT.NO.7434912, JP PAT.NO.3975272, TW PAT.NO.I224029, CN PAT.NO. ZL03804287.8, KR PAT.NO.10-0625015, US PAT.NO.8021593, JP PAT.NO.4590493, TW PAT.NO. I265909, JP PAT.NO.4478763, etc.



Circuit pattern (Copper ink)



Protein material (albumin $\Phi 10\mu\text{m}$)



Microbumps (Silver ink)



Micro QRcode (250 μm ×250 μm)

SIJ System	SIJ 050 Shown includes PC, monitor and software
Droplet volume ※)	0.1fL (femtoliter) - 10pL (picoliter)
Line width ※)	0.6 - several tens of μm
Applicable Viscosity Range ※)	0.5 - 10,000cps (non-heated)
Patterning design	Arbitrary shape (dot, line, circle, polygonal shape)
Patterning area	50mm x 50mm
Repeatability of work stage	$\pm 0.2\text{mm}$
Body size	610 x 760 x 540 mm
Customization	Available - please ask

※) These specifications depend on ink.

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