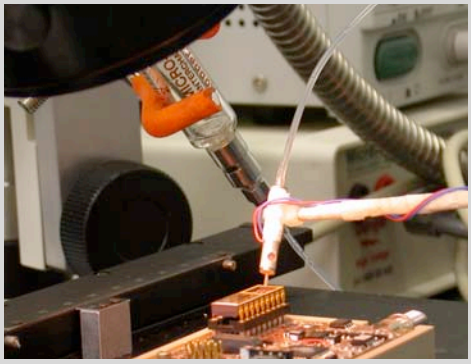
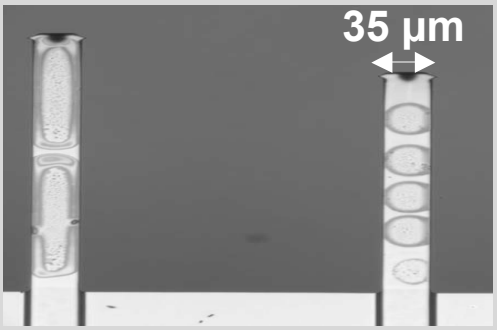
SEACOAST SCIENCE, INC
A CHEMICAL SENSOR COMPANY

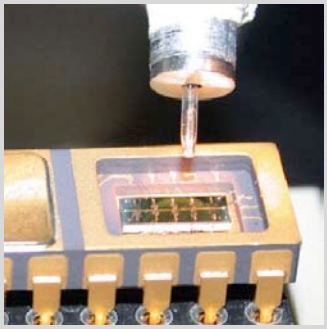
SC-IJS Ink Jet System for Sensor Coating



The standard 30 micron ink jet head provides precise drop placement control



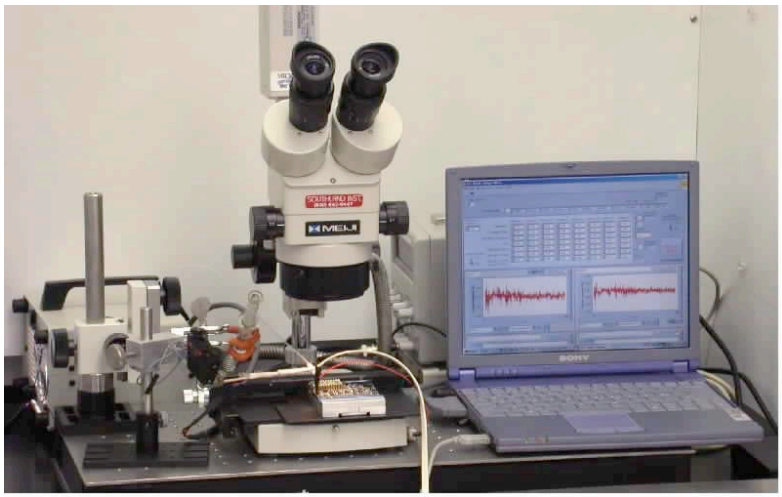
Drops as small as 35 µm can be placed on individual cantilevers



Capable of coating sensors in an array

The SC-IJS Ink Jet System for Sensor Coating uses the latest in Ink-Jet technology. The station has been designed specifically for coating chemical sensors and is compatible with a wide range of solvents and polymers. The coating station can be used to apply polymers to nano-scale sensors, to individual cantilevers, and to sensor arrays with films a few nm thick.

A variety of ink-jet nozzles are available to provide drop sizes from 30 up to 100 micron in diameter. The station is capable of delivering 10s of picograms of material per drop. The station is computer controlled and a single drop can be placed on demand or at a designated rate from 1 to 1000s per second. This allows the station to be capable of providing consistent and reproducible coatings while reducing the amount of coating material needed.



Type	SC-IJS
Compatible Solvents	Water, Chloroform, Ethanol, Toluene, Acetone, THF, Methanol, & Others
Compatible Materials	Polymers, Porphyrins, Solgel Precursors, Solvents, & Others
Resolution	30 to 100 micron diameter nozzles
Operating Temp.	20ºC to 35ºC
Accessories	Digital Video Camera with 5.2 megapixel resolution, Automatic XY stage, Upgraded Laptop, 20 micron nozzle

Contact Seacoast Science to see how our ink jet system can be tailored to meet your specific sensor coating applications.

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