

sonoplot

Microplotter

Precision printing of novel materials

Versatile
Print just about any material with viscosity up to 450 cP

Accurate
Micron-scale non-contact printing from 1 µm

Contiguous
Uniform continuous features producing superior characteristics

Fast
Print and iterate quickly for rapid prototyping

The SonoPlot Microplotters are a family of benchtop picoliter material dispensing systems for the printed electronics markets. Significant advantages over alternative printing techniques include deposited micron-scale feature sizes, a wide range of materials, regularity of volumes dispensed, and flexibility for the user. At the core of the technology is a controlled ultrasonic deposition in a non-contact manner, producing picoliter deposition forming features as small as 1 µm wide (Pronto). Combined with automatic surface height calibration, variability for deposited feature diameters can be as low as 1%. No special materials or tuning is needed, allowing printing of nanoparticle inks, polymers, graphene, CNTs, dielectrics and many other materials.

Also Includes

- Automated surface calibration
- Onboard camera for alignment and recording
- Automated printing of multiple material layers
- SonoGuide™ software for full automation and control (Windows and MacOS)

Applications

- Sensors (gas, bio, fluidic and electronic)
- Micron-scale circuitry
- Materials research
- Organic semiconductors
- Flexible electronics
- Polymer microstructures

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Specifications

	Proto	Pro	Pronto
Feature size	≥ 20 µm	≥ 5 µm	≥ 1 µm
Feature types	Droplets and contiguous lines	Droplets, contiguous lines and arcs	Droplets, contiguous lines and arcs
Deposition volume	≥ 1 pL	≥ 0.6 pL	≥ 0.3 pL
Accuracy	10 µm	5 µm	1 µm
Speed	1 cm/s	1 cm/s	2 cm/s
Addressable area	31 x 31 x 7 cm (X, Y, Z axes)		
Deposition variability	As low as 10%		
Viscosity	≤ 450 cP		
Calibration	Automatic surface height calibration		
Camera	Digital video capture & recording		
Software	SonoGuide control software included		
Dimensions (W x D x H)	59.4 x 68.6 x 42 cm (23.4 x 27.0 x 16.5 in.)		
Weight	30 kg (66 lbs)		
Power	3.0 A for 100-120 V or 1.5 A for 220-240 V		

For more information visit www.sonoplot.com, email sales@sonoplot.com or call +1 608.824.9311.

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