

I-Jet

Explore the possibilities of inkjet using the I-Jet fluid jetting and printing tool. Create intricate patterns at high speeds, starting from any location. Features include integrated x, y, z motion systems, speeds up to 25 inches per second, and drop rates of up to 15,000 drops per second per nozzle.



Models

- I-JET600: Drives two HP 45 printheads
- I-JET300: Drives one HP 45 printhead

*System customization available, for example, drop observation and characterization

Input/Output

- Inputs: Opto-coupled, accommodates polarity-independent 5V to 24V DC signals
- Outputs: Relays with ½ amp load capacity, voltages from 0 to 24VAC or DC
- Strobe: Synchronized with nozzle firing
- Encoder: Opto-coupled, differential 5V

Physical/Electrical

- AC Input: 100-240VAC, 50-60Hz, 5A
- Type: EIA AC socket and power cable

Software

- Print from any monochrome bitmap
- Control printhead firing parameters
- Precise printhead placement

*Separate PC Required

Dispensing

- Drop size: ~25 picoliter
- Nozzles/printhead: 300
- Fluid Viscosity: <5 cps
- Drop Frequency: 1K-15K per nozzle/sec

Motion

- Speed: Up to 635 mm/sec (25 ips)
- Positioning: 25 μ m
- Axis parallelism: 12 μ m
- Repeatability: +/- 2 μ m
- Encoder: Quadrature, 200 steps/mm
- Dispense zone: 304.8 mm x 304.8 mm x 96.5 mm (12" x 12" x 3.8")

Communication

- LAN: 10/100 Base-T
- Serial: 115K Baud