

ADDED SCIENTIFIC

3D Printing Inkjet Driver

An entry-level system ideal for research and development

Inkjet performance selected specifically for multi-material inkjet printing, ideal for the additive manufacturing (3D printing) market. Designed for the functional material market, the driver board supports:

- 40 or 80 pL droplet volumes with thicker layers and faster prints
- Low ink volume requirements (from around 1 mL)
- Rigid mounting and modularity for drop-in replacement
- Head heating with full user control

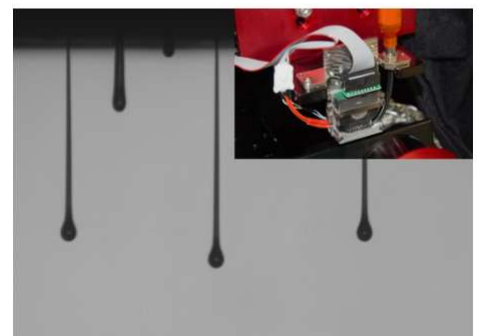
Designed and tailored for research and development, the driver can interface with high end positional stages (through quadrature encoders) and low cost printing platforms (through our stepper motor tracking). The driver also support sync in/out for strobing and drop observation.

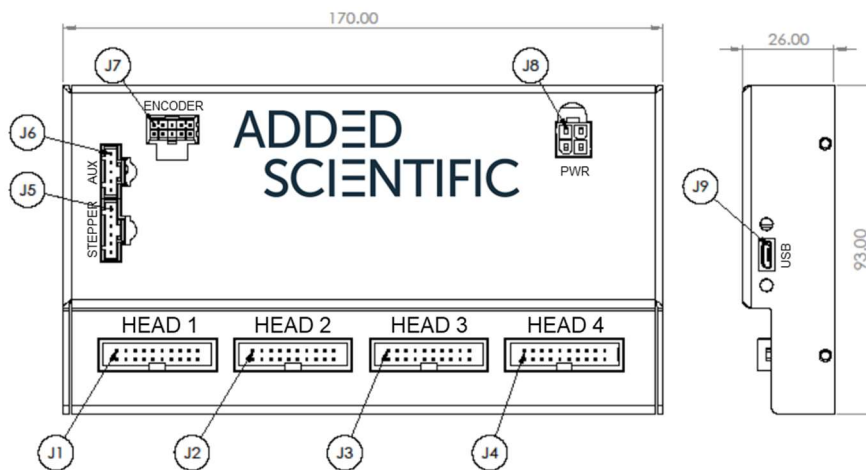
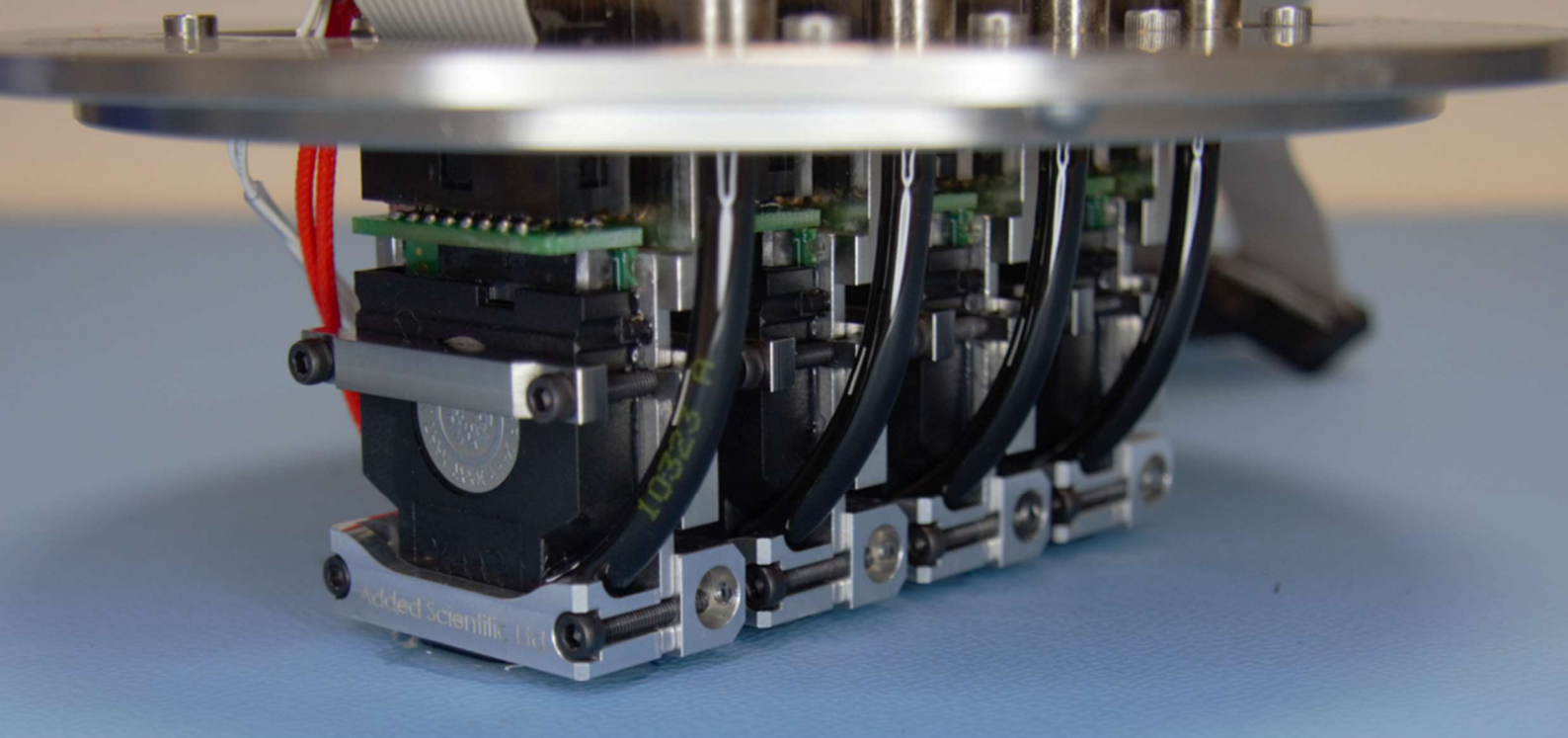
We are offering a number of items in this kit:

- Driver board
- Interface cables
- Heater blocks
- Printhead mounts
- Customised inkjet printheads

Through our system you are able to have control of:

- Printing pattern of 34 metres for each head
- Maximum printing speeds of 4.25 - 8.3 kHz
- Waveform voltage trimming 15 - 35 V
- Waveform timing control 50 – 150 %
- Head temperature control (maximum temperature dependent on ink)
- Positional feedback options including: encoder, stepper, timing, and serial





Connector Label	Function	Make: Model
J1-4	Printhead interface	ASL: Interface cable
J5	Stepper motor interface	Molex: 50579406
J6	Auxiliary interface	Molex: 50579405
J7	Differential encoder interface	Samtec: IPD1-05-D-K-M
J8	Power input (36V / 24V)	Molex: 39-01-2040
J9	USB serial interface	USB Micro

Added Scientific Ltd are an independent, technology-agnostic Additive Manufacturing (AM) and 3D printing contract research company providing consultancy, problem-solving and lab-based technical services.

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