

Supplementary Materials: Development of an inkjet setup for printing and monitoring micro-droplets

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Table S1. List of the materials used.

No.	Equipment/material	Manufacturer	Available online
1	MJ-AT-01-050-8MX printhead	MicroFab, USA	http://www.microfab.com/images/pdfs/manuals/MJ-AT_Manual.pdf
2	Arduino DUE	Arduino, USA	https://store.arduino.cc/products/arduino-due
3	PA79 APEX driver	Apex Microtechnology, USA	https://www.apexanalog.com/resources/products/pa79u.pdf
4	12V Power Supply		
5	64V Power Supply		
6	2 μ Stepper S drivers	μ Stepper, Denmark	https://ustepper.com/store/ustepper-boards/27-ustepper-s.html
7	Witbox 1 3D printer	(BQ, Spain)	https://www.manua.ls/bq/witbox/manual
8	BLTouch V3.1	ANTCLABS, South Korea	https://www.antclabs.com/bltouch-v3
9	USB Jiusion Digital Microscope	Jiusion, China	https://www.jiusion.com/products/jiusion
10	HP ENVY 13-ah0006np laptop	HP, USA	https://support.hp.com/id-en/document/c06047260
11	20 mL capacity glass reservoir	MicroFab, USA	
12	PTFE tube	MicroFab, USA	http://www.microfab.com/assemblies/ph-47
13	PEEK fitting	MicroFab, USA	
14	Camera and printing mount	(printed on an Ultimaker S3)	
15	Platform jack	(printed on an Ultimaker S3)	https://www.thingiverse.com/thing:925556

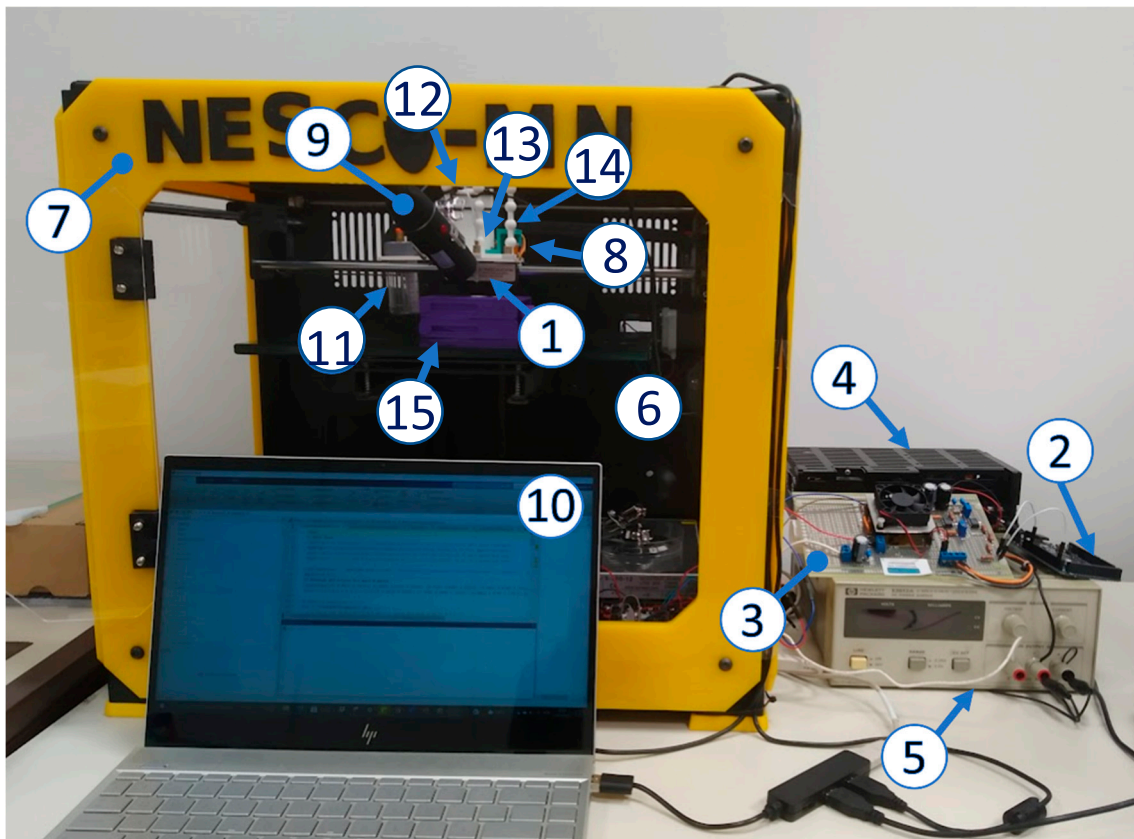


Figure S1. Experimental setup implemented.

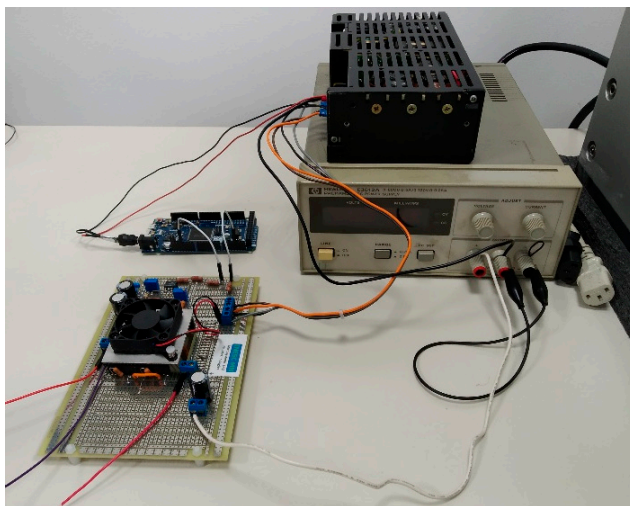


Figure S2. Implemented electronic to generate the driving waveform.

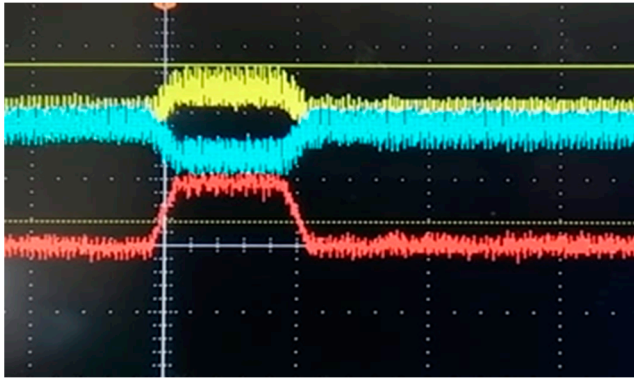


Figure S3. Applied voltage through the piezoelectric actuator (red) is the difference between the two terminals (yellow-blue).

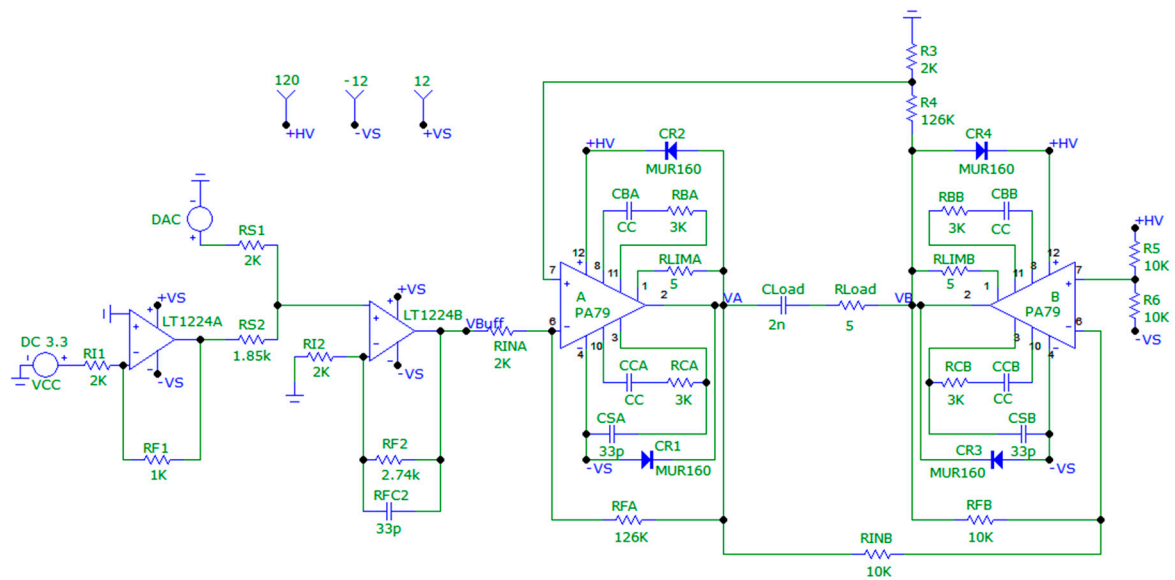


Figure S4. Schematic of the implemented PA79 APEX driver. The DC 3.3V VCC input refers to the wire connection with the Arduino DUE 3.3V supply pin and the DAC input refers to the wire connection with the Arduino DUE DAC0 pin.