





FEATURES

For Multi Material Printing



Dual Printheads

For Polymer UV Cross-Linking



High power UV LEDs for 365nm, 395 nm or 405 nm*

For more options in Scaffold Development



Customer friendly bio-fabrication software developed by Avay

For Better Extrusion Control of Certain Materials



Temperature control print head and print bed

Enhanced Cell Safety



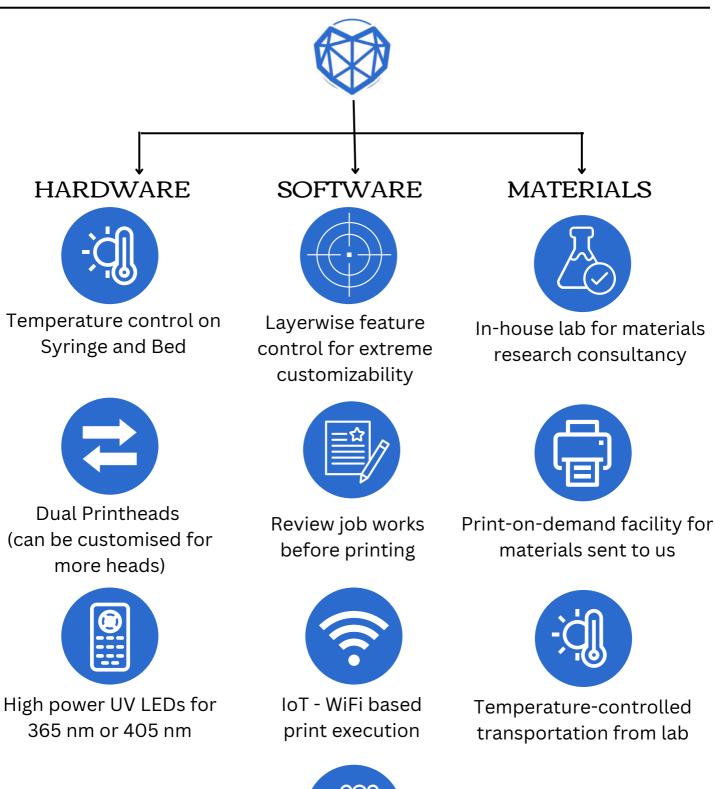
Built-in UV sterilization and HEPA filter

Coaxial Nozzle



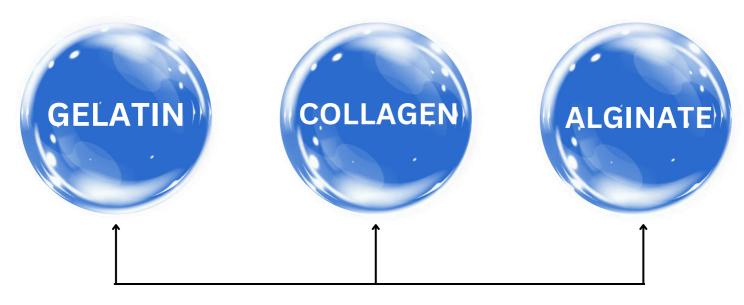
3D Coaxial Bioprinting capable*

CAPABILITIES





Custom software contracts for special feature development



Developed by AVAY

Tried and tested with "MITO"

OTHER COMPATIBLE MATERIALS:



PRODUCT SPECIFICATION

Motion Specification				
Motion Control	axes	X, Y, Z		
Build Volume	mm	130 x 100 x 80		
Max Movement Speed	mm/s	80		
Printing Specification				
No. of syringe cartridges	unit	Dual Print Head System		
Dispensing Needle		Luer lock blunt needle		

No. of syringe cartridges	unit	Dual Print Head System
Dispensing Needle		Luer lock blunt needle
		Luer lock dispensing cone tips
Layer Height	mm	0.1 - 0.4 microns
Max. print speed	mm/s	50
Building Platform	Type	Petri Dish (Diameter - upto 90mm) 6-well, 12-well, and 24-well cell culture plates Glass Slides
Bed Temperature Control	°C	10 °C to 60 °C
Syringe Temperature Control	°C	4 °C to 80 °C
No. of UV LEDs (max. 2)	nm	UV LED Wavelength 365 and 395/405

Dispensing Specification

Mechanism		Pnematic based extrusion
Pressure	bar	0.1 to 4 bar

Operational Specification

Input Power		Single phase 220 VAC
Printer dimensions	mm	900 x 480 x 460
		(Including External Screen)
Software		Avay OS







APPLICATION



Engineered Organs for transplanting



Drug discovery and Drug development



Disease Model Generation



Tissue Engineered Foods

OUR CUSTOMERS & COLLABORATORS:



























ACHIEVEMENTS:



Winner of CII SERB Prime Minister's Grant for R&D



Winner of Best Idea Award at Controlled Release Society Conference



Winner of two BIRAC Grants





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