LUMEN X

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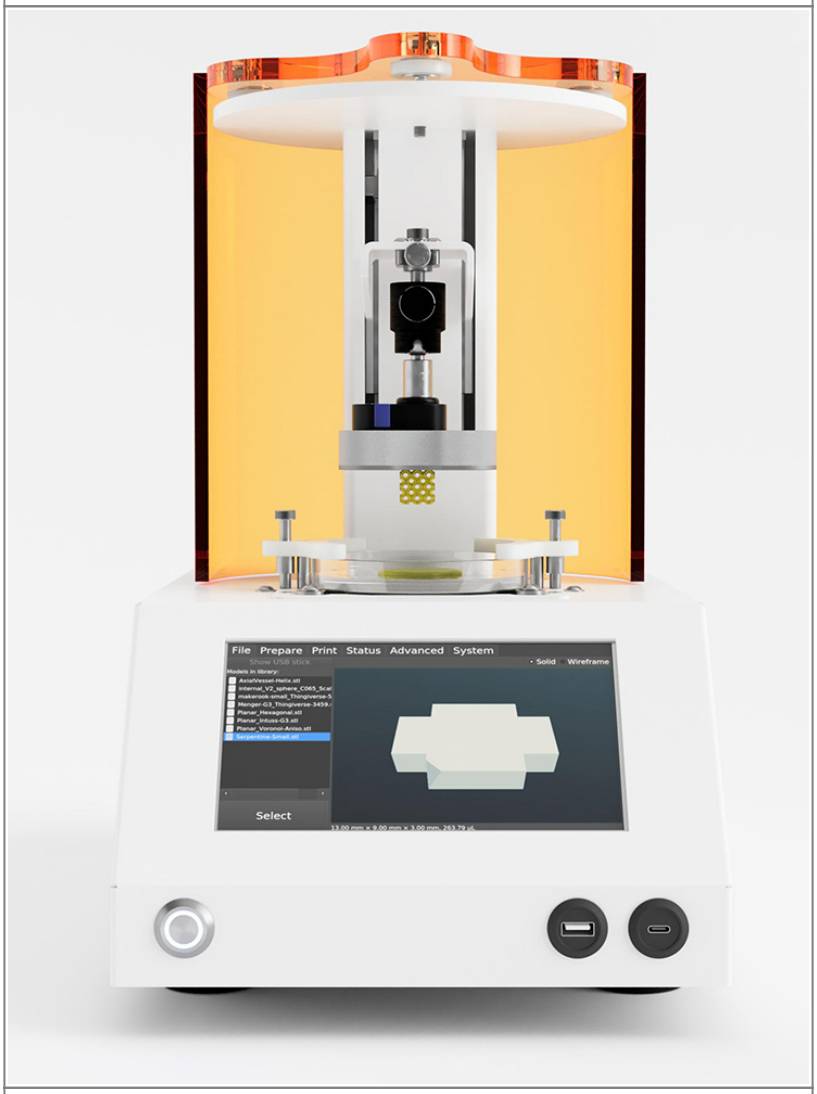
Tool Type: “3D Printer”
Location: “Elings Hall 2436”

Supervisor	Tool Lead
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Description: “Lumen X”
Manufacturer: “CELLINK Life Sciences”

About

The Lumen X+, powered by Volumetric, leverages digital light processing (DLP) printing to offer users high resolution, high throughput and high fidelity. The Lumen X divides 3D models into stacks of horizontal layers in the form of black and white image files. Using an industrial-grade visible-light projector, each image is projected onto a droplet of liquid PhotoInk™ on a polydimethylsiloxane (PDMS) vat. The illuminated regions react and solidify, then the build platform moves the cured layer up and out of the way, so that more liquid PhotoInk can be cured with the next image.

Detailed Specifications

- wavelength: 385 nm
- luminous flux: 2,500 lumens

Power in mW/cm^2 at certain intensity percentages

25%	30%	35%	40%	45%	50%	55%	60%	65%	70%	75%
8.12	10.36	13.30	15.83	18.24	20.58	22.58	24.37	26.42	28.31	29.85

Intensity percentages corresponding with a specific power in mW/cm^2