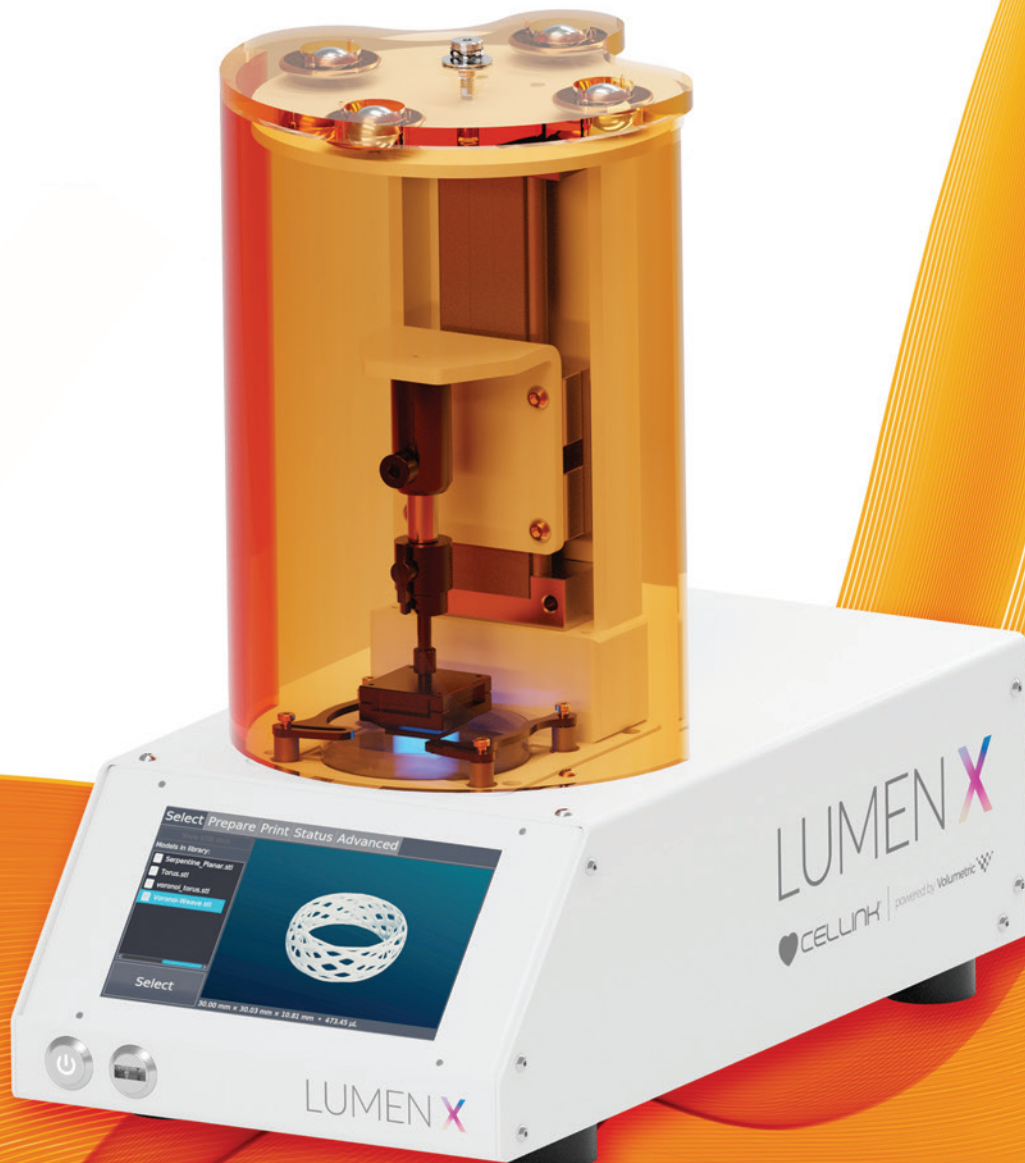




LUMEN X

 CELLINK® | powered by Volumetric 

Construct microscopic features with speed, fidelity and precision



Lumen X, powered by Volumetric, offers high resolution, high throughput and high fidelity to enhance your applications in microfluidics, cell-laden hydrogels, macroporous structures and more. Designed to bioprint vasculature with UV light, Lumen X gives you a powerful advantage in achieving complex branching and tapering of vessels.

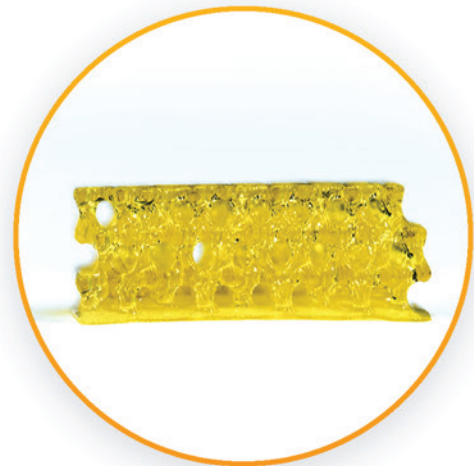
Lumen X is being launched through an exciting partnership with CELLINK and Volumetric, a Texas-based startup. We've combined expertise to optimize the technology for all of your bioprinting needs.





- Leverages more than 1 million simultaneous points of light to bioprint microscopic features down to 200 microns.

- Photographically cures entire layers at once to crosslink structures 50 times faster than other printing methods.



- Complements the state-of-the-art capabilities of CELLINK's BIO X system. You can use BIO X to print living cells within a Lumen X-fabricated structure and strengthen your work in applications like organ-on-a-chip and multimaterial research.

Technology and hardware

Projection stereolithography
>1 million simultaneous points of light
Projected image: 1280 x 800 pixels
Pixel resolution (XY): 50 μm
Z-precision (motor-driven): 5 μm
Max build volume: 64 x 40 x 40 mm

Projected light

Biocompatible wavelength: 405 nm
Intensity range: 10 – 30 mW/cm²
Distortion: < 1%

Additional features

Disposable, quick-change sterile vats
Heated platform: Up to 37° C

Software

Seamless, intuitive workflow
Capacitive touch interface
Compatible file type:
STL (stereolithography file)
Electrical power input:
100 – 265 VAC,
50 – 60 Hz, 100 W

Size and weight

Dimensions: 24 x 43 x 41 cm
(9.5 x 17 x 16.5 in)
Weight: 9 kgs (20 lbs)

*Voronoi braid (on touchscreen) courtesy of
artist O3D, CC-BY licensed.



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