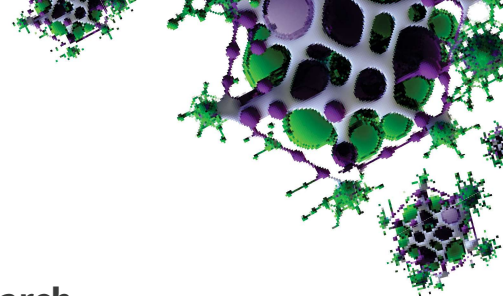




# Vital 3D Technologies



## Advancing personalized regenerative medicine and research

Discover the forefront of regenerative medicine and research through custom 3D bioprinted devices from Vital3D Technologies. Our patient-fitted stents, biocompatible scaffolds and high-definition microfluidics chips signify a breakthrough promising unparalleled precision and potential for tissue regeneration. With our pioneering 3D bioprinting technology, we're advancing research efforts, expediting the development of tailored treatments, and optimizing the efficiency of clinical trials.

## Vital Light 3D

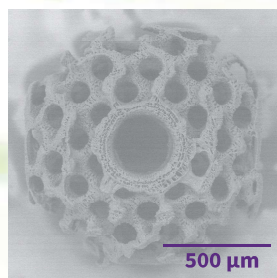
Vital Light 3D introduces the pioneering FemtoBrush innovation, making it the first **commercial Two Photon Polymerization printer**. By integrating SLM and smart hatching algorithms, it dynamically adjusts voxel size, shape, and rotation within a single layer, achieving high-fidelity details, **as small as 1 micron**, and efficient bulk printing revolutionizing the capabilities of additive manufacturing technology.

<b>Wavelength</b>	532 nm
<b>Size</b>	60 x 60 x 70 cm
<b>Build volume</b>	50 mm x 50 mm x 100 mm
<b>Type of technology</b>	Two Photon Polymerization (2PP) Stereolithography
<b>Feature size</b>	XY ~ 1 $\mu$ m, Z ~ 5 $\mu$ m



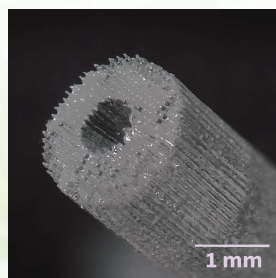
## Advance your research with high definition:

### ● Organoids



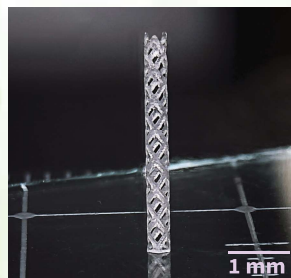
Grow bigger, better organoid models based on scaffolds with complex high-resolution geometries

### ● Grafts



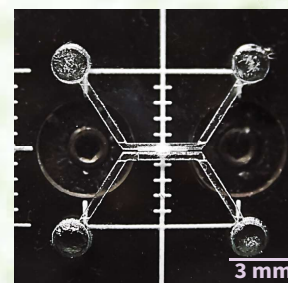
Taking tissue engineering into the next level with innovative approach in 3D laser bioprinting

### ● Stents



New capabilities for micromedical device production such as future generation of Bioresorbable Vascular Scaffold (BVS)

### ● Organ-on-chip



New prototyping and manufacturing capabilities for high-resolution microfluidic chips especially Organ-on-Chip models

Can't find what you're looking for?  
Contact us regarding custom solutions for your project.

Vital3D Technologies, UAB

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