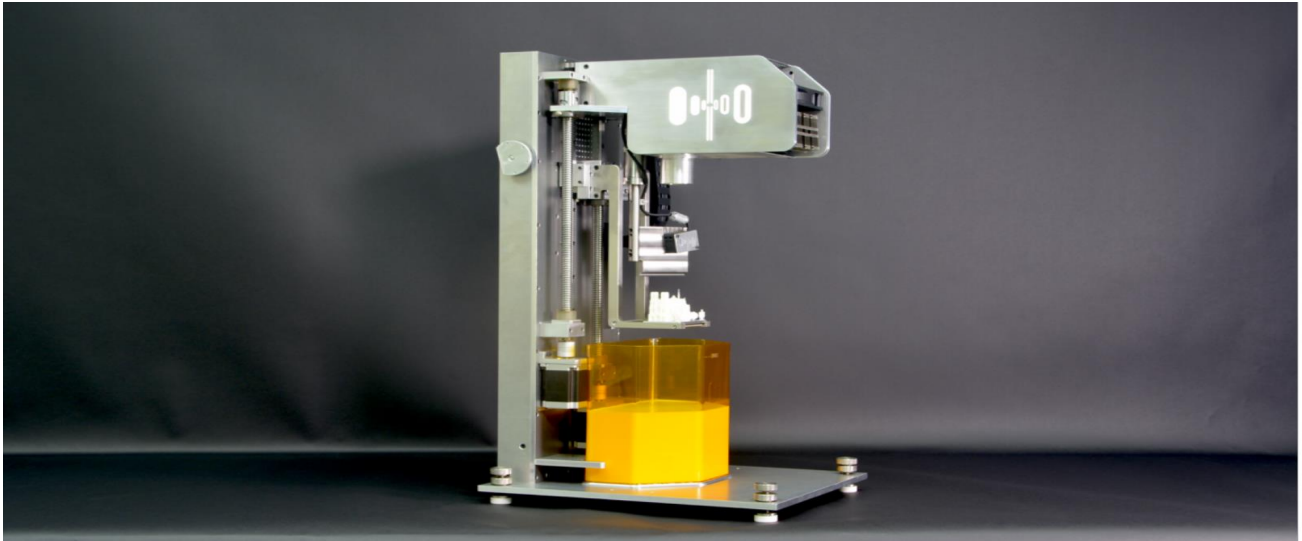


EMC Solutions

R1 3D Printer



Specifications	Octave Light R1 70 μ m	Octave Light R1 50 μ m	Octave Light R1 40 μ m	Octave Light R1 30 μ m
Build Volume	204 mm Height X 134.4 mm Width X 75.6 mm Length	204 mm Height X 96.0 mm Width X 54.0 mm Length	155 mm Height X 76.8 mm Width X 43.2 mm Length	120 mm Height X 57.6 mm Width X 32.4 mm Length
Horizontal XY Plane Resolution	70 μ m X 70 μ m per pixel	50 μ m X 50 μ m per pixel	40 μ m X 40 μ m per pixel	30 μ m X 30 μ m per pixel
Vertical Z Direction Resolution	5 μ m			
Build Layer Capability	15 μ m to 125 μ m per layer (Typical usage: 25 μ m per layer for fine printing, 50 μ m per layer to adapt to higher viscosity resins, and 100 μ m per layer for high speed printing.)			
Light Source	405 nm wavelength Ultraviolet LED			
Optical Engine	High precision ultraviolet DLP optical system, custom engineered for industrial grade stereolithography, with 1920 X 1080 square pixels. Contains a light sensor to help accurately adjust the intensity of the ultraviolet LED.			
Laser Measurement Sensor	3 μ m resolution, able to measure the surface location of transparent liquid. So, the R1 is compatible with transparent 3D Printing resins.			
Build Style	Top-down with Recoater Blade style Stereolithography			
Speed	Up to 8 mm per hour, when printing at 25 μ m per layer; up to 16 mm per hour, when printing at 50 μ m per layer; and up to 32 mm per hour, when printing at 100 μ m per layer. Actual time depending on the printing parameters the user is selecting.			