Stratasys Origin® One

A transformative 3D printer enabling mass production of end-use parts in a diverse range of high-performance materials. Achieve industry-leading accuracy, consistency, detail and throughput with Programmable PhotoPolymerization P3™ technology. In situ analytics, combined with automatic pressure, pull force and temperature regulation, ensure the first part is the same as the last. See powerful product improvements over time, with over-the-air software updates that unlock new advanced materials and workflow optimizations.

General	
Technology	Programmable PhotoPolymerization P3™
Materials	Photocurable materials from Stratasys ecosystem material partners. Refer to Stratasys website for an up-to-date selection.
Build Envelope (XYZ)	192 x 108 x 370 mm / 7,672 cm^3 (7.5 x 4.25 x 14.5 in. / 462 in^3) Maximum length on the diagonal — 220 mm (8.6 in.)
Minimum Feature Size	Material and design dependent, as low as 50µm
Layer Thickness	50 µm/0.002 in or 100 µm/0.004 in (depending on validated material used) With OpenAM™ license: 25 µm/0.001 in - 200 µm/0.008 in, in 1-µm steps
Resolution	4K light engine
Process Energy	UV (385nm) and thermal
Pre-Print Software	GrabCAD Print or optional 3rd party solutions
Regulatory Compliance	CE, FCC, KC, RCM
Physical Footprint	
System Size and Weight	49.6 x 60.1 x 119.1 cm (19.5 x 23.6 x 46.8 in.) 81 kg (180 lbs.)
Facility Requirements	
Power Requirements	100-120 VAC, 50/60Hz, 7.1A, 1 Ph or 200-240 VAC, 50/60Hz, 3.5 A, 1 Ph
Network Connectivity	Ethernet / Offline connectivity available with Origin One Local
Ventilation	Refer to photopolymer material MSDS or contact Stratasys rep for guidelines.
Operating Conditions	Operating temperature 15°C to 30°C (59°F to 86°F) Operating Humidity 30% to 70%
Gas Exhaust (optional)	Facility exhaust
Material Handling	
Resin Tray Capacity	2L
Resin Storage Temp	Typically 15°C to 30°C (59°F to 86°F)
Security Features	
Printer Authentication	Cryptographically-secure handshake
Network Security	Industry-standard end-to-end encryption
Optional Add-Ons	
On-Premise	Origin One Local
Air Extraction	ProAero