

**stratasys** **alphacam**
SOLUTIONS FOR A 3D WORLD®**PRODUCT SPEC SHEET**
P3™ DLP

Origin® Two

Origin® Two brings advanced 3D printing capabilities to end-use production, tailored for applications requiring high accuracy, repeatability, tight tolerances and smooth surface finish.

Product Specifications

Technology	Programmable PhotoPolymerization P3™ DLP (Digital Light Processing)
Achievable Accuracy	XY and Z tolerance of up to +/- 50 µm for validated applications and +/- 100 µm in general.*
Repeatability	>95% of prints are within +/- 50* µm across printers and build heads* *Between 25 µm – 200 µm layers with OpenAM™
Surface Finish	Surface roughness of up to 2µm Ra*
Build Volume (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.) Final part build size depends on material behavior/shrinkage, and could be smaller than full build volume.
Light Engine	4K projector with 38.5 µm pixel size and tight 2.5 standard deviation projector uniformity
Heated Chamber	up to 60 °C / 140 °F
Materials	Photocurable materials, single component: <ul style="list-style-type: none">Validated materials developed by Stratasys and its material partnersAny material, via the OpenAM™ LicenseChangeover can be completed in under 10 min.Long shelf lives and re-usableThree starter materials included More on materials for Origin Two on the Stratasys website P3 Materials (stratasys.com)
Minimum Feature Size	Material and design dependent
Wavelength	385nm
Pre-Print Software	Stratasys GrabCAD Print™ or optional 3rd party solutions Touchscreen printer user interface
Regulatory Compliance	CE, UKCA, FCC, RCM, NRTL
Physical Footprint	Width: 50 cm (19.7 in.) Depth: 52 cm (20.5 in.) Height: 117 cm (46 in.) Weight: 86 kg (189.5 lbs.)
System Size and Weight	
Facility Requirements	
Power Requirements	100-120 VAC, 50/60Hz, 7.1A, 1 Ph or 200-240 VAC, 50/60 Hz, 3.5 A, 1 Ph
Network Connectivity	Ethernet Offline connectivity available with Origin Two Local
Ventilation	Refer to photopolymer material MSDS or contact Stratasys rep for guidelines.
Operating Conditions	Operating temperature in the range of 18 °C to 25 °C (59 °F to 86 °F), with humidity range of 30% to 70%
Gas Exhaust (optional)	Facility exhaust

* Accuracy capabilities depend on material used and part geometry.



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Material Handling

Resin Tray Capacity	2L
Resin Storage Temperature	Typically 15 °C to 30 °C (59 °F to 86 °F)

Printer Handling

Transportation and Storage Temperature	Typically -20 °C to 50 °C (-4 °F to 122 °F)
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Security Features

Printer Authentication	Cryptographically secure handshake
Network Security	Industry-standard end-to-end encryption

Available ancillary equipment

Air Extraction	ProAero™
Post-processing	Origin CureLite™ - The published printer specifications for accuracy, tolerances, injection-molding like surface finish require use of Origin CureLite post-processing unit.
Accessories	Including Tray Pour Jig; Lid; Pour Spout; Stand; Tray; Part Removal Jig; Scraper Jig, Printer stand, Build-Head Removal Jig ("No-drip")

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