

envision^{one} HT

High Temperature



Continuous Digital Light Manufacturing (cDLM)

Created by one of the most experienced teams of engineers in 3D printing, the Envision One cDLM HT is an high temperature version of the largest, most advanced desktop 3D printer ever created. Utilizing a highly accurate infrared heating system for the resin in the material tray and a heated build platform, the Envision One HT delivers the first commercial Continuous Digital Light Manufacturing (cDLM) system that allows for the processing and 3D printing of a new generation of chemistry that promises to deliver end use parts. EnvisionTEC technology allows for continuous monitoring of build data during production, while sophisticated software constantly optimizes the build for consistently accurate results every time.

Machine Properties*

Build Envelope: 180 x 101 x 175 mm (7.09 x 3.98 x 6.9 in.), Optional 385 mm in Z

Build Speed: Up to 120 mm/hour, material dependent

Native XY Resolution: 93 μ m

XY Resolution with Contour Gray Scaling: 60 μ m

Dynamic Z Resolution: 50 μ m to 150 μ m, material dependent

Build Platform Temperature: Adjustable from room temperature to 100°C

Material Tray Resin Temperature: Adjustable from room temperature to 60°C

Data Handling: STL

Warranty: 1 year back to factory included, optional onsite available

System Properties

- Zero separation forces
- Layerless technology delivers super smooth models
- Domeless technology delivers the highest accuracy in Z
- Closed loop temperature controller
- 75% less supports compared to regular DLP printers
- High-resolution industrial projector with UV glass
- LED light source at 385nm wavelength for higher accuracy on clear parts and crisper details across all parts



Footprint (L x W x H): 15.4 x 16.93 x 25.02 in. (39.1 x 43 x 63.6 cm) Weight: 70 lbs (32 kg)
Electrical Requirements: 110/220 VAC 50/60 HZ 5A

*Specifications are subject to change without notice

envisionTEC