



Perfactory® 4 Digital Shell Printer Series

EnvisionTEC's Perfactory 4 Digital Shell Printer (DSP) can be used for large scale production due to its large build area and high resolution. Fitted with the Enhanced Resolution Module (ERM), resolutions down to 42 µm in the X and Y are possible. The micro mechanics can achieve as little as 15 µm in Z (material dependent), making it one of the highest resolution systems in the industry. This accuracy does not come at the sacrifice of speed. The DSP can build a tray of hearing aid shells in 2-3 hours (1-2 with high speed module) as the DLP process cures all parts simultaneously. The resolution is transferred into the highest quality surface finishes achievable by any rapid manufacturing process. This is just one of the reasons this machine is a firm customer favorite with leading hearing aid manufacturers.

Machine Properties *	Perfactory® 4 DSP	Perfactory® 4 DSP XL
Build Envelope	6.3" x 3.9" x 7.09"/9.06" (160 x 100 x 180/230 mm)	7.6" x 4.7" x 7.09"/9.06" (192 x 120 x 180/230 mm)
Projector Resolution	1920 x 1200 Pixels	
Native Pixel Size	0.0033" (83 µm)	0.0039" (100 µm)
Pixel Size With ERM	0.017" (42 µm)	0.0020" (50 µm)
Dynamic Voxel Resolution in Z (material dependent)**	0.0010" (25 µm) to 0.0050" (150 µm)	0.0006" (15 µm) to 0.0059" (150 µm)
Data Handling	STL	
Warranty	1 Year Included	

* Specifications are subject to change without notice. ** A voxel is a volumetric pixel.

Materials Available	Properties	Colors Available
E-Shell® 200 Series	Opaque for Ear Shells	Pink, Tan, Mocca, Beige, Cocoa, Brown
E-Shell® 300 Series	Transparent for Ear Molds	Clear, Rose, Light Brown, Brown, Clear
E-Shell® 300 Series	Opaque for Ear Shells	Red, Blue, Black, White
E-Shell® 500 Series	Soft for Ear Shells and Tips	Clear, Pink
E-Shell® 600	Transparent for Ear Molds	Clear
E-Shell® 3000 Series	Opaque for Ear Shells	Red, Blue
E-Silicone	Silicone otoplastics by cocoon molds	Orange

System Properties

- » Economic material use with no vat
- » Minimized components make the system user serviceable
- » Low acquisition costs
- » Delivered and installed with all relevant software to enable automatic support generation and perfect model production
- » Utilizes a build in ethernet interface, allowing direct connection to a PC workstation or integration into a network.
- » Material changeover can be done quickly and easily

Footprint (L x W x H): 29" x 19" x 53" (73 x 48 x 135 cm)
 Weight: 188 lbs (85 kg)
 Electrical Requirements: 100-120V, 5.4 Amps
 220-240V, 2.4 Amps

Patents Pending



EnvisionTEC GmbH

Brüsseler Straße 51 • D-45968
 Gladbeck • Germany
 Phone +49 2043 9875-0
 Fax +49 2043 9875-99

EnvisionTEC, Inc.

15162 S. Commerce Dr
 Dearborn, MI 48120 • USA
 Phone +1-313-436-4300
 Fax +1-313-436-4303

envisiontec.com
 info@envisiontec.com