

PERFACTORY®

Technical Data

Perfactory³® XGA Desktop System

The Perfactory³® Desktop System is designed to support Rapid Prototyping and Direct Manufacturing with a low cost, high resolution solution. Based on the principle of Photopolymerisation the Perfactory³® Desktop System creates three dimensional resin models through a patented Direct Light Projection System.

Size and Resolution for XGA

System*	Perfactory® XGA Desktop
Build Envelope**	40 x 30 x 100 mm
Voxel*** size XY	40 µm
Dynamic Voxel Thickness Z****	35 µm
Resolution XGA	1024 x 768

* System specification are subject to change without notice ** Deviation of +/- 2mm possible *** A Voxel is a volumetric pixel **** Pre adjusted by each material-module

System Data Handling

Utilizing a built in Ethernet® interface the Perfactory³® Desktop System can easily connect directly to a PC workstation or be integrated into a network. The Perfactory® Desktop System has an embedded PC, which allows the system to work independently from the pre-processing workstation. The Perfactory³® Desktop can be remotely monitored from any computer on the network using the communication software into the Perfactory® Software Suite. Any STL data format can be easily converted into bitmap images using the Perfactory® Software Suite and then imported into the Perfactory³® Desktop System either via Ethernet® or USB-Stick (optional) to be built.

System-Properties

Easy handling through pre adjusted material-modules.

Build speed is constant through the build up to 7 mm per hour at 35µm Z-Voxel thickness.

Very few moving parts and minimal consumable components guarantee a strong and reliable system.

Minimized components make the system user serviceable.

Post-processing is clean and simple due to near 100% photo cure during the build process.

Models are suitable for direct manufacturing through Rapid Casting.

A choice of materials are available, from concept models to functional parts, such as R11 resin for producing high detailed rubber and silicon molds, and PIC100 for Direct Investment Casting.

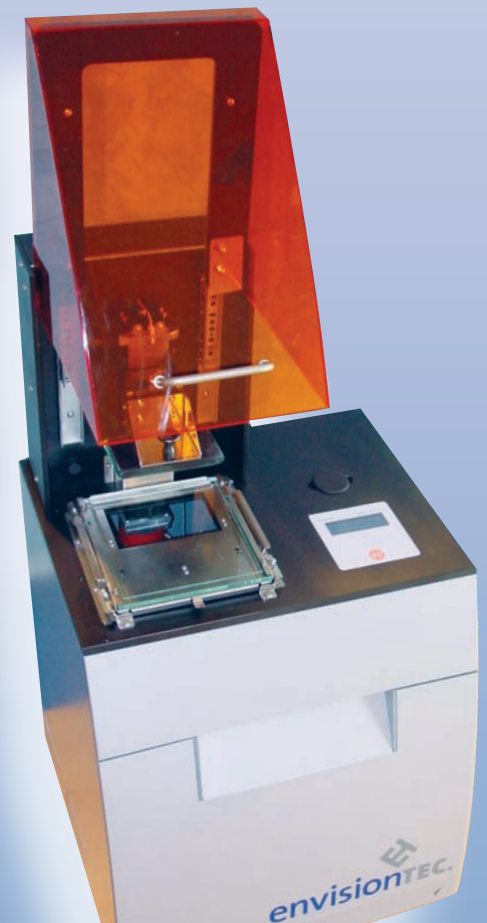
Fully cured models are chemically safe.

Low acquisition cost.

Footprint: (L x H x D) 45 x 78 x 45 cm, Weight app. 25 kg

Electrical Requirements: 100 - 120 V/2 A, 220 - 240 V/1 A

Patents Pending



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