

PERFACTORY®

Technical Data

Perfactory³® SXGA+ Standard Zoom

The Perfactory³® SXGA+ Standard Zoom is a low cost, easy maintenance and user friendly three dimensional Rapid Prototype Manufacturing System. Using state of the art Direct Light Projection technology from Texas Instruments®, the Perfactory³® Standard Zoom System produces the finest detail in the shortest period of time. The Perfactory³® Standard Zoom System creates three-dimensional models that range from the conceptual to the fully functional.

Machine Properties*	Perfactory ³ ® SXGA+ Standard Zoom with integrated ERM****
Lens System	f = 25 mm – 45 mm
Build Envelope** XYZ	120 x 90 x 230mm to 190 x 142 x 230mm
Native Voxel*** Size XY	86 µm to 136 µm
ERM**** Voxel Size XY	43 µm to 68 µm
Dynamic Voxel Thickness Z*****	25 µm to 150 µm
Resolution SXGA+	1400 x 1050

* System specification are subject to change without notice. **Deviation of ±2mm possible. ***A Voxel is a volumetric pixel. ****ERM is the Enhanced Resolution Module. *****The Dynamic Voxel Thickness Z is pre-adjusted by each material module.

System Data Handling

Utilizing a built in Ethernet interface, the Perfactory³® Standard Zoom System can connect directly to a PC workstation or can be integrated into a network. The machine has an embedded PC, which allows the system to work independently from the pre-processing workstation. The Perfactory³® Standard System can be remotely monitored from any computer on the network using the communication software that is integrated 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® system to be built.

System Properties

- Build speed is constant through the build up to 20 mm (1") per hour at 100 µm (0.004") Z-Voxel thickness.
- All materials can be processed excluding UV resins.
- Integrated Enhanced Resolution Module (ERM) for the doubling of resolution.
- Economic material use, no vat, and a supply on demand material feed system.
- Very few moving parts and minimal consumable components.
- Minimized components make the system user serviceable.
- Models are suitable for direct manufacturing through Rapid Casting.
- A choice of materials from concept models to functional parts.
- Low acquisition costs.

Requirements

- Footprint (L x W x H): 73 x 48 x 135cm / 29" x 19" x 53"
- Weight: ca. 70 kg
- Electrical Requirements: 100 – 120V/5.5A, 220 – 240V/2.7A

Patents pending

