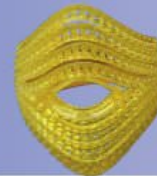




AUREUS



Technical Data

March 2009

Aureus

The Aureus machine is designed to support Rapid Prototyping and Direct Manufacturing with a low cost, high resolution solution. Based on the principle of Photopolymerisation the Aureus System creates three dimensional wax and resin

Machine Properties*	Aureus
Build Envelope**	60 x 45 x 100 mm
Voxel*** size XY	43 μ m
Dynamic Voxel Thickness Z****	25-35 μ m
Resolution SXGA+	1400 x 1050 px

*System specification are subject to change without notice. **Deviation of ± 2 mm possible. ***A Voxel is a Volumetric Pixel.

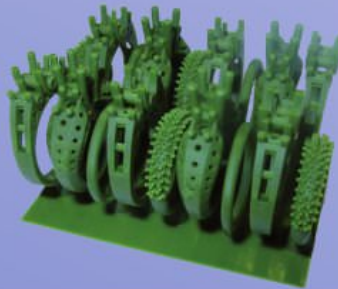
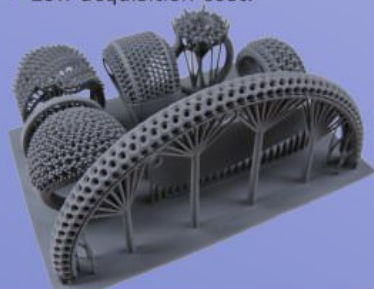
****Pre-adjusted by each material module.

System Data Handling

Utilizing a built in Ethernet® interface the Aureus machine can easily connect directly to a PC workstation or be integrated into a network. The Aureus has an embedded PC, which allows the system to work independently from the pre-processing workstation. The machine can be remotely monitored from any computer on the network using the communication software from the Aureus Software Suite. Any STL data format can be easily imported using the Aureus Software Suite.

System Properties

- Easy handling through pre-adjusted material modules.
- Build speed is constant through the build up to 3-7mm per hour at 35 μ m Z-Voxel thickness. (Material dependent)
- 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 building process.
- Models are suitable for direct manufacturing through Rapid Casting.
- A choice of materials are available, from concept models to functional parts, such as **envisionTEC** Nanocure resin for producing high detailed rubber and silicon molds, and **envisionTEC** PIC300 and WIC100G for Direct Investment Casting.
- Fully cured models are chemically safe.
- Low acquisition cost.



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