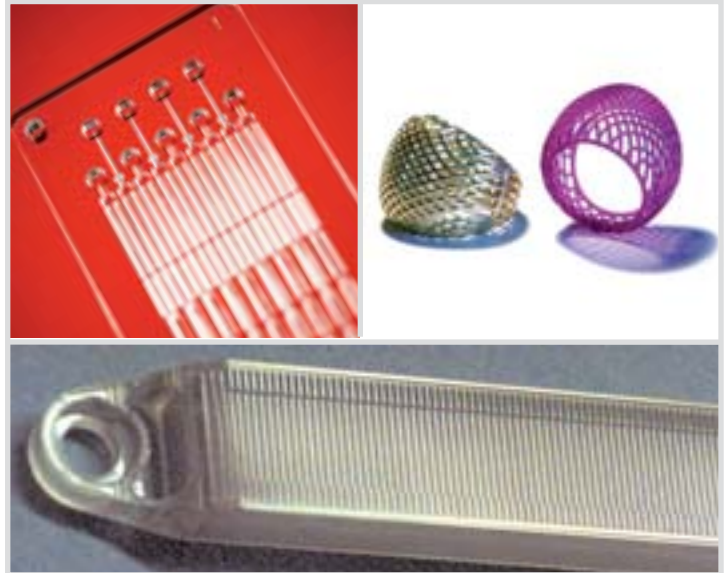




# Viper™ SLA® system

**Maximum applications versatility and sophisticated technology in the most affordable SLA® stereolithography system.**



## APPLICATIONS

- Small to medium-sized prototype, concept and communication models
- Investment casting patterns
- Parts with extremely fine details such as jewelry and electronic connectors
- Hearing aids

## FEATURES

- Dual-resolution part building system
- Long-life solid state laser
- Accura® advanced solid imaging materials
- Easy to use software

## BENEFITS

- Achieve excellent fine feature capability
- Enjoy low cost of ownership
- Realize outstanding part quality and sidewall surfaces
- Manage quick material switches between builds
- Maximize control with a fully integrated system

## TECHNICAL DATA

### Laser

Type	Solid state Nd:YVO <sub>4</sub>
Wavelength	354.7 nm
Power at vat	100 mW available
Laser Warranty	7500 hours or 12 months (whichever comes first)

### Recoating System

Process	Zephyr™ recoating system
Build layer capability*	Minimum — 0.02 mm (0.001 in); Typical — 0.10 mm (0.004 in)

### Optical & Scanning

Beam (diameter @ 1/e <sup>2</sup> )	Standard mode — 0.250 ± 0.025 mm (0.010 ± 0.001 in) HR mode — 0.075 ± 0.015 mm (0.0030 ± 0.0005 in)
-------------------------------------	--

### Elevator

Vertical resolution	0.0025 mm (0.0001 in)
Position repeatability	0.0076 mm (0.0003 in)
Maximum part weight	9.1 kg (20 lb)
Typical velocity during part building	5 mm/sec (0.2 in/sec)

### Vat Capacity\*\*

Volume	32.21 L (8.5 U.S. gal)
Maximum build envelope (standard mode)	250 x 250 x 250 mm (10 x 10 x 10 in) (XYZ)
Maximum build envelope (HR mode)	125 x 125 x 250 mm (5 x 5 x 10 in) (XYZ)
Interchangeable vat	Yes

### System Controller & Software

Control software	Buildstation™ software
Operating system	Windows NT (4.0 with Service Pack 3 or higher)
Input data file format	.stl, .slc
Network type and protocol	Ethernet, IEEE 802.3 10/100 Base-T

### Power

100 - 120 VAC +/-10% 50/60 Hz, 6 amps	15 amp, 115V
220 - 240 VAC +/-10% 50/60 Hz, 3 amps	8 amp, 230V
UPS power rating	2KVA minimum

### Ambient Temperature

Temperature range	23 °C +/- 3 °C (73 °F +/- 5 °F)
Maximum change rate	1 °C/hour (3.4 °F/hour)
Relative humidity	20 - 50 %, non condensing

### Size

Crated machine	W168 x D102 x H211 cm (W66 x D40 x H83 in)
Uncrated machine	W134 x D86 x H178 cm (W52.5 x D33.5 x H70 in)

### Weight

Crated machine	564 kg (1242 lb)
Uncrated machine	463 kg (1020 lb)

### Options

Interchangeable and Short/Shallow vats**	
Additional build platforms	
ProCure™ UV Curing Chamber	

### System Warranty

One year from installation date. Includes parts, labor, and 3D Systems' software upgrades.

\* Dependent upon part geometry, build parameters and material.

\*\* Other vat sizes available

Standards and Regulations: This SLA system conforms to Federal Laser Product Performance Standards 21CFR1040.10 Class I laser in normal operation. During field service, emission levels can correspond to Class IV laser product. The Viper SLA system complies with CE requirements.



**3D Systems Corporation**  
333 Three D Systems Circle  
Rock Hill, SC 29730 U.S.A.

Tel: 803.326.4080  
Toll-free: 800.889.2964  
Fax: 803.324.8810

moreinfo@3dsystems.com  
www.3dsystems.com  
NASDAQ: TDSC

Warranty/Disclaimer: The performance characteristics of these products may vary according to product application, operating conditions, material combined with, or with end use. 3D Systems makes no warranties of any type, express or implied, including, but not limited to, the warranties of merchantability or fitness for a particular use.

© 2006 by 3D Systems, Inc. All rights reserved. Specifications subject to change without notice. Buildstation, Lightyear, ProCure, ProClean, QuickCast, Viper, and Zephyr are trademarks, and the 3D logo, Accura and SLA are registered trademarks of 3D Systems, Inc.