

Get industrial-strength solid imaging performance in a mid-size package

SLA™ 3500

SOLID IMAGING SYSTEM

SLA 3500 delivers the speed, resolution, and reliability of our industry-tested SLA 5000 — all in a more compact footprint.

BUILD PARTS FASTER. SLA 3500's patented SmartSweep™ technology eliminates unnecessary sweeper motion, dramatically reducing build times; its .05 mm (.002 in) build layer* creates accurate parts with a smooth finish that requires far less post-processing. And the SLA 3500 is up to 2.5 times faster* than the SLA 250 line.

TACKLE A FULL RANGE OF SOLID IMAGING APPLICATIONS. SLA 3500 is compatible with a range of 3D Systems stereolithography material, including our highly-durable SL 7510 resin, and our heat-resistant SL 5530HT resin. And the generous 350 x 350 x 400 mm (13.8 x 13.8 x 15.7 in) build platform provides greater capacity than offered by the SLA 250 series.

COUNT ON ECONOMY AND RELIABILITY THAT PROTECT YOUR INVESTMENT. SLA 3500's long-life solid state laser and low power requirements ensure a predictable, manageable cost of ownership. Its automatic resin dispensing system refills the vat for you, so you spend less time on maintenance and more time up and running. And like all our SLA systems SLA 3500 comes complete with 3D Lightyear™ and Buildstation™ software — so you can support your entire organization without additional per-user costs.



RAISE WORKGROUP PRODUCTIVITY — AND PROFITABILITY. Only SLA 3500 gives you the very same solid imaging technology used by large, multinational corporations, at a more affordable price. Depend on it to help you innovate, cut costs, and beat your competition to market with the highest-quality products you've ever produced.

COUNT ON A TOTAL SOLUTION. Every SLA 3500 system includes easy-to-use 3D Lightyear® file preparation software. Every system works with a variety of our specially formulated resins, covering a broad range of modeling and prototyping applications. And every system is backed by 3D Systems' Global Support, which you can tailor to meet your production needs and your budget. Turn to 3D Systems Educational Services for expert hands-on training in the latest solid imaging methodologies and techniques. And tap the resources of the 3D Systems Technology Center for demos, benchmarks or for additional modelmaking capacity. It's a complete solid imaging solution you won't find anywhere else.



Use the SLA 3500 Solid Imaging System for:

- » prototypes for design verification and testing
- » patterns for casting and molding
- » tools for pre-production tooling
- » parts for manufacturing aids, vendor solicitation and limited production runs

* Dependent upon part geometry, build parameters and materials.

"Total time from request for quote to finished prototype: Seven working days! The model helped us clinch the business and beat a good competitor."

— Spencer Johnson
OEM Sales Support Manager
Logitech Corporation.

SLA 3500 Specifications

Standards and Regulations: This SLA product conforms to Federal Performance Standard (CFR21 Subchapter J Class I laser product in normal operation, Class IIIb during field service. The SLA 3500 complies with CE requirements.



LASER

Type	Solid State Nd:YVO ₄
Wavelength	354.7 nm
Power at vat @ 5000 hours	160 mW
Warranty	5000 hours or 18 months (whichever comes first)

RECOATING SYSTEM

Process	Zephyr Recoater
ACES	0.1 mm (0.004 in) *
QuickCast	0.1 mm (0.004 in) *
Tooling style	0.05 mm (0.002 in) *

OPTICAL & SCANNING

Beam diameter (@ 1/e ²)	0.20-0.30 mm (0.008-0.012 in)
Recommended part drawing speed	2.54 m/sec (100 in/s)

ELEVATOR

Vertical resolution	0.00177 mm (0.00007 in)
Position repeatability	± 0.005 mm (0.0002 in)
Maximum part weight	56.8 kg (125 lb)

VAT CAPACITY

Volume	99.3 L (25.6 U.S. gal)
Maximum build envelope	350 x 350 x 400 mm XYZ (13.8 x 13.8 x 15.7 in)
Interchangeable vat	Yes

BUILDSTATION

Operating system	Windows NT
Network type and protocol	Ethernet, IEEE 802.3 using NFS and TCP/IP

POWER

200 - 240 VAC, 50/60 Hz, single phase, 15 amps

AMBIENT TEMPERATURE

Temperature range	20 - 26° C (68 - 79° F)
Maximum change rate	1° C/hour (1.8° F/hour)
Relative humidity	Less than 50%, non-condensing

SIZE

Crated	
Process Module	W1.22 x D1.22 x H2.32 m (W48 x D48 x H91.5 in)
Control Module	W1.07 x D1.24 x H1.47 m (W42 x D49 x H57.75 in)
Accessory kit	W1.09 x D1.14 x H1.17 m (W43 x D44.75 x H46.25 in)
Uncrated	
Process Module	W0.95 x D1.02 x H2.0 m (W37.5 x D40 x H78.27 in)
Control Module	W0.85 x D1.02 x H1.03 m (W33.2 x D40 x H40.3 in)

WEIGHT

Crated	
Process module:	799 kg (1758 lb)
Control module:	301 kg (662 lb)
Accessory kit:	212 kg (466 lb)
Uncrated	
Process Module:	614 Kg (1350 lb)
Control Module:	205 Kg (450 lb)

OPTIONS

1. Additional interchangeable vats	
2. Additional platforms	

WARRANTY

One (1) year from installation date. Includes parts, labor, and buildstation software upgrades. Laser under separate warranty.

* Dependent upon part geometry, build parameters and material.

3D Systems

26081 Avenue Hall

Valencia, CA 91355 USA

661.295.5600

fax: 661.294.8406

toll free: 1.888.337.9786

www.3dsystems.com

France

telephone +33 1 69 35 17 17

Germany

telephone +49 6151 357 303

Hong Kong

telephone (852) 2923 5022

Italy

telephone +39 039 68 904 00

Spain

telephone +34 937 502 190

UK

telephone +44 1442 282600

© Copyright 1999 by 3D Systems. All rights reserved. Specifications subject to change without notice. The 3D logo and Keltool are registered trademarks and 3D Systems, PCA, ACES, SLA, Lightyear, Buildstation, QuickCast and SmartSweep are trademarks of 3D Systems. All other product names or services mentioned are trademarks or registered trademarks of their respective companies.