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

SLA® 3500

STEREOLITHOGRAPHY SYSTEM

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

BUILD PARTS FASTER. SLA 3500 system'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 system is up to 2.5 times faster* than the SLA 250 system.

TACKLE A FULL RANGE OF SOLID IMAGING APPLICATIONS. The SLA 3500 system is compatible with a range of 3D Systems' stereolithography materials, including the versatile SL 7510, the durable SL 7540 and the temperature-resistant SL 5530. 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 system.

COUNT ON ECONOMY AND RELIABILITY THAT PROTECT YOUR INVESTMENT. The SLA 3500 system's long-life solid state laser and low power requirements ensure predictable performance and low cost of ownership. Its automatic material dispensing system maintains the vat for you, so you spend less time on preparation and more time up and running.

RAISE WORKGROUP PRODUCTIVITY — AND PROFITABILITY. Only the SLA 3500 system gives you the very same solid imaging technology used by large, multi-national 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 Lightyear™ file preparation software. Every system works with a variety of the specially formulated materials, 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. 3D Systems offers a complete solid imaging solution you won't find anywhere else.

Use the SLA 3500 system for:

- PLASTIC PROTOTYPES FOR DESIGN VERIFICATION AND TESTING
- PRECISION PATTERNS FOR CASTING AND MOLDING
- TOOLS FOR PRE-PRODUCTION TOOLING
- PARTS FOR MANUFACTURING AIDS, VENDOR SOLICITATION AND LIMITED PRODUCTION RUNS

"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

* Dependent upon part geometry, build parameters and material.

SLA 3500 System Specifications

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 SLA 3500 system complies with CE requirements.

LASER	
Type	Solid State Nd:YVO_4
Wavelength	354.7 nm
Power at vat @ 5000 hours	160 mW
Laser Warranty	5,000 hours or 18 months (whichever comes first)

RECOATING SYSTEM	
Process	Zephyr™ recoating system
ACES™ build style	0.1 mm (0.004 in) *
QuickCast™ build style	0.1 mm (0.004 in) *
Tooling™ build style	0.05 mm (0.002 in) *

OPTICAL & SCANNING	
Beam diameter (@ $1/e^2$)	0.20-0.30 mm (0.008-0.012 in)
Maximum part drawing speed	2.54 m/sec (100 in/sec)

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

SOFTWARE	
3D Lightyear file preparation and Buildstation build software	
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
Additional interchangeable vats
Additional platforms

SYSTEM WARRANTY
Includes parts, labor, and 3D Systems' software upgrades.

* Dependent upon part geometry, build parameters and material.

3D Systems

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