Build detailed prototypes with exceptional precision

SLA 250

The most widely used stereolithography systems in the world, SLA 250s are ideal for building small, detailed, precision parts — and for introducing your organization to the benefits of solid imaging.

SLA 250/30: ENTRY-LEVEL SOLID IMAGING. The SLA 250/30 builds highly-detailed parts as large as $250 \times 250 \times 250 \text{ mm}$ (10 x 10 x 10 in), suitable for a wide variety of solid imaging applications. It's the most affordable solid imaging system you can buy today.

SLA 250/50: FOR FASTER, MORE VERSATILE PERFORMANCE. With double the laser power of the SLA 250/30, the SLA 250/50 lets you build more parts in less time, making it an ideal solution for small-but-busy shops. And its patented Zephyr recoating system yields higher throughput than earlier technology, especially when building trapped volumes — perfect for building injection-mold cavities and other demanding applications.

SLA 250/50HR: FOR THE ULTIMATE IN PRECISION. SLA 250/50HR delivers all the features of the SLA 250/50, *plus* a high-resolution laser. With its small beam diameter, it can deliver parts with very small features, and extremely fine detail.

REVOLUTIONIZE YOUR BUSINESS — NO MATTER WHICH SYSTEM YOU CHOOSE. Convey your ideas more effectively. Test more innovations in less time. Detect flaws and bugs *before* you



proceed to costly tooling and manufacturing. No matter which SLA 250 system you choose, you'll trim time and expense at every stage of product development — and beat your competition to market with the highest quality products you've ever produced.

COUNT ON A TOTAL SOLUTION. Every SLA 250 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 250 Solid Imaging System for:

- » prototypes for design verification and testing
- $^{\mathrm{w}}$ patterns for casting and molding
- » tools for pre-production tooling
- » parts for manufacturing aids, vendor solicitation and limited production runs

"SLA gives us the ability to predict future marketing trends. We are able to be first out the door with what the customer wants."

Morrison Cousins
 Vice President of Design,
 Tupperware, Inc.

SLA 250 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 250 Series complies with CE requirements.

	L <i>F</i>	LASER		
	SLA 250/30	SLA 250/50		
е	HeCd	HeCd		
velength	325 nm	325 nm		

Тур

Wa

325 nm Power at vat (@ 2,000 hours) 12 mW 24 mW 6 mW Warranty (one (1) year prorated) 2,000 hours 2,000 hours 2,000 hours RECOATING

SLA 250/50HR

HeCd

SLA 250/30 SLA 250/50 **SLA 250/50HR** Process Doctor Blade Zephyr Zephyr 0.0625 mm (.0025 in)** Min. Recommended layer 0.15 mm (0.006 in) for 0.1 mm (0.004 in) for for TECHWEAVE only thickness* ACES and QuickCast ACES and QuickCast

SLA 250/50 SLA 250/30 **SLA 250/50HR** Spot size (diameter @ 1/e²) 0.20-0.28 mm 0.20-0.28 mm 0.06-0.08 mm (0.008-0.011 in) (0.008-0.011 in) (0.0025-0.0035 in) Maximum part drawing speed 635 mm/sec 762 mm/sec 762 mm/sec (30 in/sec) (30 in/sec) (25 in/sec)

ELEVATOR		
Vertical resolution	0.0025 mm (.0001 in)	
Maximum part weight	9.1 kg (20 lb)	

VAI CAPACITY				
	SLA 250/30	SLA 250/50	SLA 250/50HR	
Volume	32.2 L (8.5 U.S. gal)			
Maximum build envelope	250 x 250 x 250 m	nm** (10 x 10 x 10 in)		
Interchangeable vat	No	Yes	Yes	

SOFTWARE		
Operating system	MS-DOS	
Network type and protocol	Ethernet, IEEE 802.3 using TCP/IP and NFS	

120 VAC \pm 10%, 10A, 50/60 Hz or 230 VAC \pm 10%, 5.2A, 50/60 Hz

AMBIENT TEMPERATURE		
Temperature range Maximum change rate Relative humidity	20-26°C (68-79°F) 1°C/hour (1.8°F/hour) Less than 50%, non-condensing	
SIZE		
Crated Uncrated	W1.42 x D0.91 x H2 m (W56 x D36 x H79 in) W1.24 x D0.69 x H1.64 m (W49 x D27 x H64.5 in)	
WEIGHT		
Crated Uncrated	461 kg (1014 lb) 362 kg (796 lb)	

One (1) year including parts and labor Laser under separate warranty

- Dependent upon part geometry, build parameters and material.
- For the SLA 250HR, optimal part building is obtained in a 5 x 5 in square area about the center of the platform; this is especially true as layer thickness is reduced toward the 0.0025 in minimum layer thickness.



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