

Build detailed prototypes with exceptional precision

SLA[®] 250

STEREOLITHOGRAPHY SYSTEM

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

FOR FASTER, MORE VERSATILE PERFORMANCE.

The SLA 250/50 system builds highly detailed parts as large as 250 x 250 x 250 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. Its patented Zephyr™ recoating system yields higher throughput than earlier technology, especially when building trapped volumes — great for building injection-mold cavities and other demanding applications.

SLA 250/50HR SYSTEM: FOR THE ULTIMATE IN PRECISION.

The SLA 250/50HR system delivers all the features of the SLA 250/50 system, plus a high-resolution laser. With its small beam diameter, it can deliver parts with very small features (0.1mm/0.004 in), 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 Lightyear™ file preparation software. Every system works with a variety of our 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 250 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



SLA 250 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 1116 laser product. The SLA 250 system complies with CE requirements.

LASER

System	SLA 250/50	SLA 250/50HR
Type	HeCd	HeCd
Wavelength	325 nm	325 nm
Power at vat (@ 2,000 hours)	24 mW	6 mW
Laser Warranty (prorated)	2,000 hours	2,000 hours

RECOATING SYSTEM

System	SLA 250/50	SLA 250/50HR
Process	Zephyr recoating system	Zephyr recoating system
Min. recommended layer thickness*	0.1 mm (0.004 in) for ACES™ and QuickCast™ build styles	0.0625 mm (.0025 in)** for recommended baseline only

OPTICAL & SCANNING

System	SLA 250/50	SLA 250/50HR
Beam Diameter (diameter @ 1/e ²)	0.20-0.28 mm (0.008-0.011 in)	0.06-0.08 mm (0.0025-0.0035 in)
Maximum part drawing speed	762 mm/sec (30 in/sec)	635 mm/sec (25 in/sec)

ELEVATOR

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

VAT CAPACITY

System	SLA 250/50	SLA 250/50HR
Volume	32.2 L (8.5 US gal)	32.2 L (8.5 US gal)
Maximum build envelope	250 x 250 x 250 mm (10 x 10 x 10 in)**	
Interchangeable vat	Yes	Yes

SOFTWARE

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

POWER (other options available)

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

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	W1.42 x D0.91 x H2 m (W56 x D36 x H79 in)
Uncrated	W1.24 x D0.69 x H1.64 m (W49 x D27 x H64.5 in)

WEIGHT

Crated	461 kg (1,014 lb)
Uncrated	362 kg (796 lb)

SYSTEM WARRANTY

One (1) year from installation date.
Includes parts, labor and 3D Systems' software upgrades.
Laser under separate warranty.

* Dependent upon part geometry, build parameters and material.

** For the SLA 250HR system, 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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