VIPER

SI2 SLA® SYSTEM

Technology: Stereolithography, SLA

Material Class: Liquid; Photo Reactive

Two solid imagers in one – for unprecedented versatility

The Viper si2 SLA system is our first solid imaging system to combine standard AND high-resolution part building in the same system. Now, with one machine, you can tackle an unequalled range of solid imaging applications. And you can take advantage of scores of cost-saving, productivity-enhancing innovations, including state-of-the-art components, improved system software, and much more.

A dual resolution and long life laser - another 3D Systems first.

The Viper si2 system lets you choose between standard resolution mode, for the best balance of build speed and part resolution, and high resolution (HR) mode for ultra-detailed small parts and features – all from a carefully integrated digital signal processor (DSP) controlled high speed scanning system with a single, solid-state laser that delivers 100 mW of available power.

Build superior quality parts for every application. The Viper si2 system builds parts with a smooth surface finish, high accuracy and excellent fine feature detail that require minimal finishing. It's ideal for a myriad of solid imaging applications, from rapid modelling and prototyping, to patterns for investment casting.

Lower your cost of ownership thanks to scores of design improvements. Longer laser life is just the beginning. Optimised for our SL materials, the system's new solid-state Viper laser delivers fast draw speeds, and high throughput. What's more, the entire system – from optics and electronics to the external enclosure has been designed from the ground up for maximum productivity, reliability and service-TM ability.

State-of-the-art software. The Viper si2 system operates with the latest versions of Lightyear part preparation and Buildstation control software. Lightyear software provides ease of use and the Buildstation software provides a reliable build process with little user intervention.



Tackle all these applications with one machine:

- Small to medium-sized concept and communication models
- Small to medium-sized prototypes
- Patterns for investment casting using the QuickCast buildstyle
- Parts with extremely fine detail

Benefits

- · Long laser life
- · Low cost of ownership
- · Fast scanning system
- Excellent part quality
- · Great range of applications



Viper si2 SLA 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 Viper si2 system complies with CE requirements.

| | LASER |
|---|---|
| Туре | Solid state Nd:YVO ₄ |
| 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 |
| OPTICAL & SCANNING | |
| | |
| Beam (diameter @ 1/e ²) | Standard mode 0.250 +/- 0.025 mm |
| | Hi res mode 0.075 +/- 0.015 mm |
| | ELEVATOR |
| Vertical resolution | 0.0025 mm |
| Position repeatability | 0.0076 mm |
| Maximum part weight | 9.1 kg |
| Typical velocity during part building | 5 mm/sec |
| VAT CAPACITY | |
| Volume | 32.21 L |
| Maximum build envelope in standard mode | 250 x 250 x 250 mm XYZ |
| Maximum build envelope in HR mode | 125 x 125 x 250 mm XYZ |
| Interchangeable vat | Yes |
| SYSTEM CONTROLLER & SOFTWARE | |
| Control software | Buildstation 5.3 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 |
| Network type and protocor | |
| | 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 |
| Maximum change rate | 1°C/hour |
| Relative humidity | 20 - 50%, non condensing |
| | SIZE |
| Crated machine | W168 x D102 x H211 cm |
| Uncrated machine | W134 x D86 x H178 cm |
| | WEIGHT |
| Crated machine | 564 kg |
| Uncrated machine | 463 ka |
| Officiated friactime | 3 |
| OPTIONS | |
| Additional interchangeable vats | |
| Additional build platforms | |
| Post Curing Apparatus (PCA) equipment | |
| SYSTEM WARRANTY | |
| One year from installation date. | |
| Includes parts, labor, and 3D Systems' software upgrades. | |



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