



Vistar (Xiamen) Industries Co., Ltd.

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Stereolithography 3D Printer **SLA100-DLC**



Powered by Vistar (Xiamen) Industries Co., Ltd.

899 Maqing Road, Haicang District, Xiamen, Fujian, China 361000

P : +86-592-3862946 F : +86-592-3862808

E-mail : info@3dprotofab.com

Please visit us online:
www.3dprotofab.com



SLA100-DLC Technical Data Sheet

| | |
|---|---|
| Model | SLA100-DLC |
| Type of laser spot | Stereolithography |
| Type of resin | Photopolymer resin |
| LASER SYSTEM | |
| Scanner Brand | German scanlab high speed Scanner |
| Laser Brand | Inngu/Bellin (Non-acceptance of requirement) |
| Type of Laser | Diode-pumped solid-state laser Nd:YVO ₄ |
| The wavelength of ultraviolet light | 354.7nm |
| Power | 3W |
| RECOATING SYSTEM | |
| Process | Intelligent reduced vacuum press recoater |
| Normal layer thickness | 0.1mm |
| Rapid production layer thickness | 0.125mm |
| Precision production layer thickness | 0.075mm |
| Special production layer thickness | 0.05mm~0.20mm Optional |
| OPTICAL & SCANNING | |
| Beam (Diameter@1/e ²) | the diameter of fixed spot: 0.08mm-0.15m the diameter of variable spot: Small spot: 0.08mm-0.15m ; Large spot: 0.45mm |
| Scanner | a high speed Scanner(Single Scanner) |
| Scanning Speed | 6.0m/s(Recommended) 10.0m/s(Maximum) |
| Reference weight (It depends on the complexity of the model) | 60-120g/h |
| PRECISION | |
| Z axis repeat positioning accuracy | ±0.01mm |
| molding precision | Accuracy may vary depending on parameters, part geometry/size, pretreatment / post-treatment, material, and environment |
| RESIN VAT | |
| First Vat(weight),Actual weight is calculated according to the actual density of the material | 1.6L (1.8kg) |
| Build Size (xyz) ¹ | 100mm(X)×100mm(Y)×50mm(Z) |
| Resin heating mode | Thermal Conduction Heating |
| Intelligent Function Customization | |
| automatic door | none |
| automatic filling | External filling box |
| Remote control system | customizable |
| Automatic laser window locking | none |
| Remote Wechat system | YES |

SOFTWARE

| | |
|---------------------------------------|---|
| Control system(upgrade) | Sirius |
| CAD Interface | STL, CTL, OBJ, PLY, ZPR, ZBD, AMF, WRL, 3DS, FBX, MJPDDD, 3DPRINT, BFF, IGES, IGS, STEP and STP |
| Operating Software | Sirius Intelligent Printing Control Software Linux / Windows (Optional) |
| Resin database | contain |
| Printing mold | Precision,Standard,Speed |
| Variable laser power control function | YES |
| Network types and protocols | Ethernet , TCP/IP , IEEE802.3 |

INSTALLATION CONDITION

| | |
|---------------------|---|
| Power Requirements | 200 - 240 VAC 50 / 60 Hz 16A (Available according to local voltage standard) |
| Power consumption | 6W |
| Ambient Temperature | 22-25°C(71.6-77°F) |
| Relative Humidity | Less than 40% |
| Machine Size | 0.85m(W)×1.15m(D)×1.8m(H) (33.46×45.28×70.87 in) |

WARRANTY

| | |
|---------------|---|
| Laser | 5000 hours or 12 months (whichever comes first) |
| Main Machine | 1 year from installation |
| Certification | FCC、 CE、 ISO9001 |

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