

ZRapid iSLA1600D RAPID PROTOTYPING SYSTEM SPECIFICATIONS

Technology: Stereolithography, additive layer manufacturing

Material Class: Photo reactive resin

LASER SYSTEM	
Type	Diode-pumped solid-state laser Nd:YVO4
Wavelength	354.7nm
Power at vat at 5000 hours	500mW
RECOATING SYSTEM	
Process	Intelligent reduced vacuum press recoater
Normal build style	0.1mm
Quick build style	0.1-0.15mm
Precision build style	0.05-0.1mm
OPTICAL & SCANNING	
Beam (diameterΦ)	0.10-0.15mm(Normal) 0.10-0.50mm(Dynamic focusing)
Focus style	High speed galvanometer scanning
Part drawing speed	Recommended 0-25.0m/s
Beam jump speed	Recommended 40.0m/s
Reference build weight	200-450g/h (Super X 2 galvanometer scanning)
ELEVATOR	
Position repeatability	±0.01mm
Elevator motor	High accuracy servo motor
Platform	Marble platform
RESIN VAT	
Volume	Approx. 1210.0L (1400kg)@500mm Z axis
Build envelope: XY axes	1600mm(X)*800mm(Y)
Build envelope: Z axis	500mm
Max build weight	150Kg @500mm Z axis
Resin heated style	Precision resistor heater
SOFTWARE	
Network	Ethernet,TCP/IP IEEE802.3
Control software	iSLA (ZERO 5.0) build software
Date Preparation Software	3dMagics
Data interface	CLI file, SLC file, STL file
INSTALLATION CONDITION	
Power	200-240VAC 50/60Hz, single phase, 5/15Amps
Ambient temperature	20-26°C
Relative humidity	Less than 40%, non-condensing
Size	2.52m(W)×1.65m(D)×2.33m(H) (Not include the external computer)
Weight	Approx. 2000kg
WARRANTY	
Laser	5000 hours or 12months (whichever comes first)
Main machine	Two (2) years from installation date