



SINTERIT LISA - NEW

Product specification



Desktop SLS 3D printer

- compact size
- cost effective
- small powder consumption
- easy operation and handling

General information

Status	Available
Technology	SLS
Laser system	IR Laser Diode 5 [W] ; $\lambda = 808$ [nm]
Dimensions	620 x 400 x 660 [mm] (24.4 x 15.8 x 26.0 [in])
Weight	41,0 [kg] (90.4 [lbs])

Print volume

Max size of print diagonally ⁰	245 [mm] (8.9 [in])
Flexa - high accuracy max print volume	110 x 160 x 150 [mm] (4.3 x 6.3 x 5.9 [in])
PA - high accuracy max print volume	90 x 120 x 130 [mm] (3.5 x 4.7 x 5.1 [in])

Printer parameters

Size of Print Bed	150 x 200 x 150 [mm] (5.9 x 7.9 x 5.9 [in])
XY accuracy	from 0,05 [mm] (0.002 [in])
The layer height Z (min - max)	0,075 - 0,175 [mm] (0.003 - 0.007 [in])

Print features

Min. wall thickness	from 0,4 [mm] (0.015 [in])
Min. detail size	from 0,1 [mm] (0.003 [in])
Hole Diameter	from 0,5 [mm] (0.019 [in])
Moving Part Clearance	from 0,2 [mm] (0.007 [in])

Information provided within this document are typical values for reference and comparison only. Parameters presented in this data sheet are subject to change. Final part properties may vary based on printed part design and print orientation. Material during tests - parameters are subject to change.



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Material

PA12 Smooth - polyamide 12	20-100 [μm], average size 38 [μm]
Flexa Black / Grey - TPU based	20-105 [μm]
Material refreshing ratio ¹	from 0 - 30 % depending on the material

Software

Software ²	Sinterit Studio 2016
Supported file types	STL, OBJ, 3DS, FBX, DAE, 3MF
OS compatibility	Microsoft Windows

Communication

LCD screen	Resistive, color
Touchscreen	4 [in]
On-board camera	Built-in
Connectivity	Wifi, Usb port

Heating system

Independent	Heated: piston, cylinder, feed bad, print bad
Max. temperature in the chamber	190 [°C] / 374 [°F]

Power

Power supply	220-240 [V] AC, 50/60 [Hz], 7 [A] or 100-130 [V] AC, 50/60 [Hz], 15 [A]
Average power consumption	0,9 [kW]
Maximum power consumption	1,6 [kW]

Packaging

Size of package	780 x 480 x 960 [mm] (30.7 x 18.9 x 37.8 [in])
Package weight	65,0 [kg] (143.3 [lbs])
Package contains	LISA 3D printer + Set of Accessories + Manual

Safety

Certificates	CE (class A) according to IEC 60825-1 Ed. 3 (2014) FCC (class A)
IEC protection class	Class 1
Laser product class	Class 1, invisible laser radiation

Warranty

One year limited warranty

⁰ Max size of print diagonally depends on the type of material.

¹ Material refreshing ratio - percent of Fresh powder which has to be mixed with Used (unsintered) powder - to be reused to the next print.

² Technical requirements to install Sinterit Studio Software: Windows 7 or higher / Minimum 500 MB of disc space / Minimum 2 GB of RAM / Graphics adapter compatible with OpenGL 3.0 or higher.