



Sinterit LISA

Product specification



Desktop SLS 3D printer

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

General information

| | |
|--------------|---|
| Technology | SLS |
| Laser system | IR Laser Diode 5 [W] ; λ =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

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|--|--|
| Max size of print diagonally ¹ | 236 [mm] (9.3 [in]) |
| Flexa/TPE - high accuracy max print volume | 110 x 150 x 145 [mm] (4.3 x 5.9 x 5.7 [in]) |
| PA - high accuracy max print volume | 90 x 130 x 130 [mm] (3.5 x 5.1 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]) |

Software

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

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.

Communication

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

Heating system

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

Power

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|---------------------------|--|
| 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

For the transportation of a printer we use dedicated protective packaging. Ask for more information.

| | |
|-----------------|--|
| Size of package | 450 x 660 x 730 [mm] (17.7 x 25.9 x 28.7 [in]) |
| Package weight | 23,8 [kg] (52.5 [lbs]) |

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

Software versions

| Supported materials | Sinterit Studio | Sinterit Studio OPEN | Sinterit Studio PROFILES | Sinterit Studio ADVANCED |
|---------------------|-----------------|-------------------------|-----------------------------|-----------------------------|
| PA12 Smooth | ✓ | ✓ | ✓ | ✓ |
| Flexa Grey | ✓ | ✓ | ✓ | ✓ |
| Flexa Soft | - | - | ✓ | ✓ |
| Flexa Bright | - | - | ✓ | ✓ |
| TPE | - | - | ✓ | ✓ |
| Open Parameters | - | ✓ | - | ✓ |

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.