



# SINTERIT LISA PRO

## Product specification



Benchtop SLS 3D printer

- bigger print volume
- build - in a nitrogen chamber
- compatible with many materials
- a possibility of using 3rd party powders
- no calibration needed after delivery

### General information

|              |   |
|--------------|---|
| Technology   | SLS   |
| Laser system | IR Laser Diode 5 [W] ; $\lambda = 808$ [nm]       |
| Dimensions   | 690 x 500 x 880 [mm]<br>(27.1 x 19.7 x 34.6 [in]) |
| Weight       | 90,0 [kg] (198 [lbs])                             |

### Print volume

|  |  |
|--|--|
| Max size of print diagonally °             | 316 [mm] (12.4 [in])                           |
| Flexa/TPE - high accuracy max print volume | 110 x 160 x 250 [mm]<br>(4.3 x 6.2 x 9.8 [in]) |
| PA - high accuracy max print volume        | 90 x 120 x 230 [mm]<br>(3.5 x 4.7 x 9 [in])    |

### Printer parameters

|                                |  |
|--------------------------------|--|
| Size of Print Bed              | 150 x 200 x 260 [mm] (5.9 x 7.9 x 10.2 [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]) |

### Additional printer features

|                                |   |
|--------------------------------|---|
| Nitrogen chamber               | Built-in  |
| Coupling installed in Lisa Pro | Pneumatic quick-coupling Male Plug Nipple DN7.2 |
| Average Nitrogen consumption   | 0,15 [m <sup>3</sup> /hour]                     |

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.



## Software

|                       |                              |
|-----------------------|------------------------------|
| Software <sup>2</sup> | Sinterit Studio 2019         |
| Supported file types  | STL, OBJ, 3DS, FBX, DAE, 3MF |
| OS compatibility      | Microsoft Windows            |

## Communication

|                 |                   |
|-----------------|-------------------|
| LCD screen      | Capacitive, color |
| Touchscreen     | 7 [in]            |
| On-board camera | Built-in          |
| Connectivity    | Wifi, Usb port    |

## Heating system

|                                 |   |
|---------------------------------|---|
| Independent                     | Heated: piston, cylinder, Feed Bed, Print Bed |
| Max. temperature in the chamber | 200 [°C] / 392 [°F]                           |

## Power

|                           |  |
|---------------------------|--|
| Power supply              | 220-240 [V] AC, 50/60 [Hz], 7 [A] or<br>100-130 [V] AC, 50/60 [Hz], 15 [A] |
| Average power consumption | 1 [kW]   |
| Maximum power consumption | 1,8 [kW]   |

## Packaging

|                  |   |
|------------------|---|
| Package contains | LISA PRO 3D printer + Set of Accessories + Manual |
|------------------|---|

## Warranty

One year limited warranty

## Software Versions

| Supported materials    | Sinterit Studio | Sinterit Studio Open | Sinterit Studio Profiles | Sinterit Studio Advanced |
|------------------------|-----------------|----------------------|--------------------------|--------------------------|
| PA12 Smooth            | ●               | ●                    | ●                        | ●                        |
| PA11 Onyx <sup>3</sup> | ●               | ●                    | ●                        | ●                        |
| Flexa Grey             | ●               | ●                    | ●                        | ●                        |
| Flexa Black            | ●               | ●                    | ●                        | ●                        |
| Flexa Soft             | ○               | ○                    | ●                        | ●                        |
| Flexa Bright           | ○               | ○                    | ●                        | ●                        |
| TPE                    | ○               | ○                    | ●                        | ●                        |
| Open Parameters        | ○               | ●                    | ○                        | ●                        |

<sup>0</sup> Max size of print diagonally depends on the type of material.

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

<sup>2</sup> Technical requirements to install Sinterit Studio Software: 64-bit processor / Windows 7 or higher / Minimum 1 GB of disc space / Minimum 2 GB of RAM / Graphics adapter compatible with OpenGL 3.0 or higher.

<sup>3</sup> PA11 Onyx can be printed only with Lisa Pro 3D Printer