

**Electrical properties**

Rated voltage range	AC 100–240 V
Rated frequencies	50/60 Hz
Rated current max.	3 A / 230 V respectively 6.3 A / 100 V
Max. power consumption	630 W, typically < 400 W
Main supply overvoltage	Category II
Grounding equipment conductor	Required
Electrical safety	In accordance with IEC 61010-1:2010
Laser safety	Class 1, internal laser class 4 according to IEC 60825-1:2014

**Ambient conditions**

Operating conditions	Indoors
Operating temperature	21°C ± 2°C
Temperature stability	± 1°K/h
Maximum relative humidity	60%
Sound pressure level	55 dB
Air pressure for internal vibration isolation	Not required

**Weights and measures**

Total weight	124 kg
Dimensions (W x L x H)	58.5 x 71 x 65 cm <sup>3</sup>
Minimum wall distance	5 cm



**Specifications**

Accessible writing area	Up to 120 x 100 mm <sup>2</sup>		
Horizontal and vertical resolution	≤ 10 nm		
Max. travel distance z-axis	49 mm		
<b>Objectives</b>	<b>40x/1.4</b>	<b>20x/0.7</b>	<b>10x/0.4</b>
Horizontal feature size	≤ 220 nm	≤ 420 nm	≤ 730 nm
Vertical feature size	≤ 550 nm	≤ 2.9 μm	≤ 9.2 μm
Field of view	Ø 0.66 mm	Ø 1 mm	Ø 2 mm
Writing speed (typically)	150 mm/s	300 mm/s	600 mm/s
Throughput – galvo-mode (typically)	0.05 mm <sup>3</sup> /h	0.25 mm <sup>3</sup> /h	4 mm <sup>3</sup> /h
Throughput – adaptive resolution (typically)	0.25 mm <sup>3</sup> /h	2.25 mm <sup>3</sup> /h	40 mm <sup>3</sup> /h

**Femtosecond laser**

Max. average power	250 mW
Pulse length	95 fs
Center wavelength	780 nm
Repetition rate	80 MHz

**Software**

THINK3D

