

## Specification for the Scherzo<sup>®</sup> 532nm Laser

Output beam parameters:	
Output wavelength	532 nm
Rated output power (CW)	50, 100, 150, 200, 300 & 400 mW
Output beam diameter	0.5 mm (+/- 0.2) @ 10mm $1/e^2$
Transverse mode structure	TEM <sub>00</sub> , $M^2 < 1.05$
Divergence	<1mrad ½ angle
Beam pointing stability	≤ 10 µrad / °C
Longitudinal mode structure	SLM (Single frequency), <1MHz line width
Polarisation	Vertical
Polarisation ratio	≥ 100 : 1
Output power noise (p-p)	≤ 2 % (10 Hz - 10 MHz)
Output power noise (rms)	≤ 0.3 % (10 Hz - 10 MHz)
Output power stability	≤ 2 % (4 hours)
Design 01_04_0014	
Thermal management	TEC conductive cooling through customer's metal heat sink plate
Operating temperatures (base plate)	15 - 35 °C
Storage temperatures	10 - 50 °C
Laser head size (L x W x H)	170 x 139 x 96 mm
Laser head weight	2540 g
Controller 04_01_01	
Dimensions (LxWxH)	175 x 104 x 45 mm
Weight	740 g
Accessories	
Power adapter	Standard AC/DC converter, 12 VDC, 140 W max with Mini-DIN 4 power connector
Cables	Included
Weight	1200 g

CW operation, turnkey system, output power fixed, completely aligned and sealed at production, no further alignment needed by user. Specification may be subject to some change without notice.



