

BRaMMS-Solo - 640/XXXX



BRaMMS - Solo - 640/500

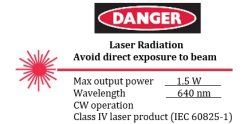
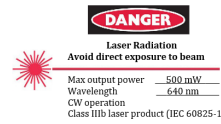
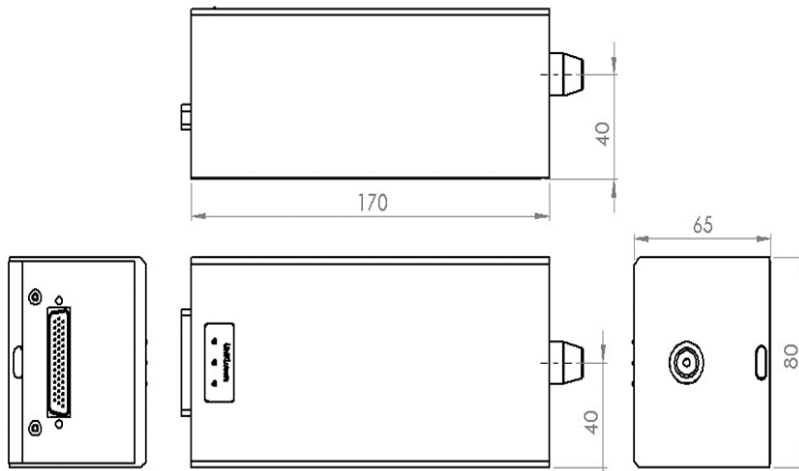
- from 50mW to 1500mW output power at 640nm SLM
- feedback locked Single Longitudinal Mode CW operation
- mode hops and lock loss free
- very low noise performance
- excellent beam quality from smallest footprint
- lowest power consumption for given output

	Units	Low Power Versions	High Power Versions
Output Beam Parameters:			
Output Power (fixed values within range)	mW	500	1500
Power Control (optional)	—	Externally via manual power adjuster (MPA)	
Wavelength	nm	639.7 ± 0.2	
Beam Spatial Mode	—	TEM ₀₀	
Beam Diameter at output aperture	mm	0.8 ± 0.1	1.0 ± 0.2
Beam Divergence	mrاد	< 1, diffraction limited	
Beam Pointing Stability	μrad/°C	≤ 5	
Longitudinal Mode Structure	—	SLM	
Line Width	MHz	< 0.5	
Line Spectral Position Stability (±5 °C, 4 hours)	pm	±1.6	
Coherence Length	m	> 100	
Mode Hops Free Fine Tuning Range (optional)	GHz	25 – 30	
Polarisation	—	Linear, Vertical; ≥100:1	
Output Power Noise (10Hz – 10MHz)	%	≤ 0.1rms, ≤ 1p-p	
Output Power Stability (4 hours, ±5 °C)	%	≤2	
Environmental:			
Working Temperatures	°C	15 – 35, conductive cooling via mounting interface	
Storage Temperatures	°C	-20 to 60	
Humidity	%	5 -95, non-condensing	
Warm up time	min	<10	<15
Dimensions and Electrical:			
Supply Voltage	DC	19	
Power Consumption (at 25 °C)	W	<20	<90

*Fixed output power turnkey system, CW operation, factory aligned and sealed.
Specification may be subject to change without notice.*

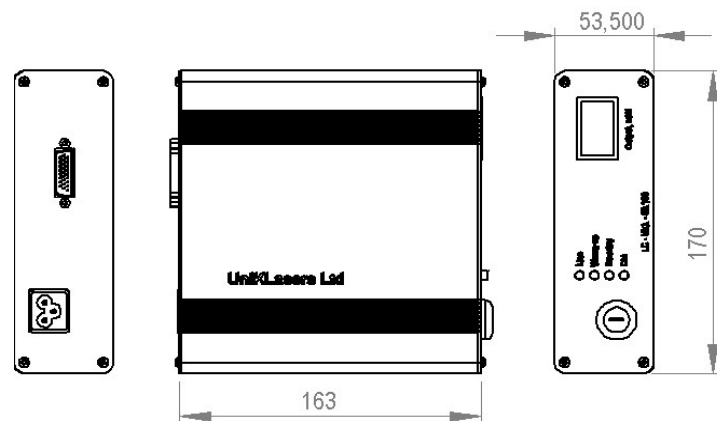
BRaMMS-Solo - 640/XXXX Laser Head and Controller Dimensional Specification

Laser Head: 80x 65x 170mm



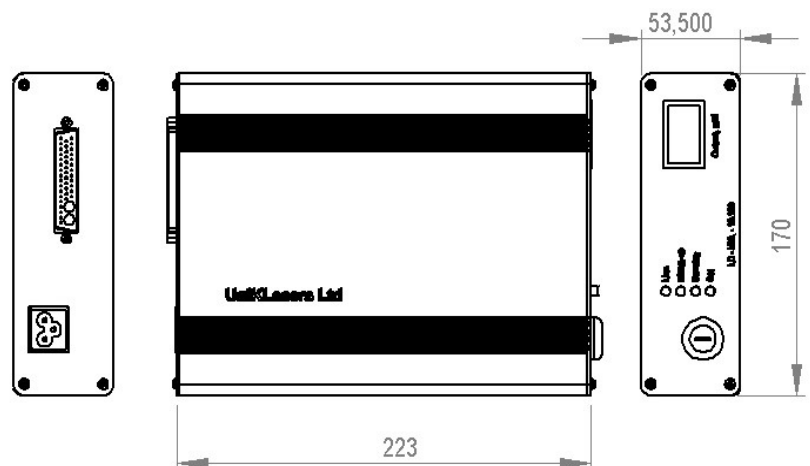
Low Power Version: Controller

170x 53.5x 163mm



High Power Version: Controller

170x 53.5x 223mm



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