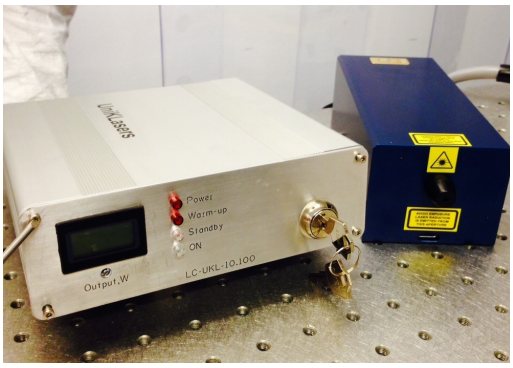
UNIKLASERS

Dedicated to Innovation

BRaMMS-Duetto - 442/XXX

- from 10mW to 100mW output power at 442nm 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



BRaMMS – Duetto - 442/50

	Units	
Output Beam Parameters:		
Output Power (fixed values within range)	mW	10 - 100
Power Control (optional)	—	Externally via manual power adjuster (MPA)
Wavelength	nm	442 ± 0.2
Beam Spatial Mode	—	TEM_{00}
Beam Diameter at output aperture *	mm	0.8 /1.2
** there is a noticeable ellipticity of the output beam due to principal walk-off between SH and fundamental beams inside the nonlinear crystal*		
Beam Divergence	mrad	< 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	±1.1
Coherence Length	m	> 100
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 75
Humidity	%	5 -95, non-condensing
Warm up time	min	<15
Dimensions and Electrical:		
Supply Voltage	DC	19
Power Consumption (at 25 °C)	W	<60

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

sales@uniklasers.com
www.uniklasers.com

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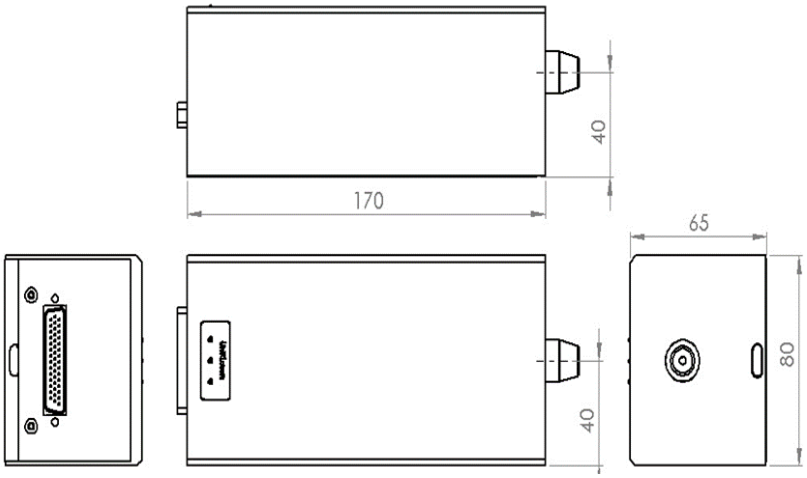
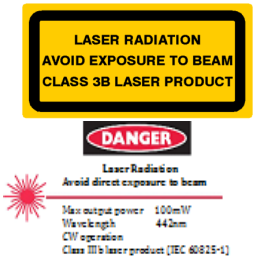
BRaMMS-Duetto - 442/XXX Laser Head and Controller Dimensional Specification

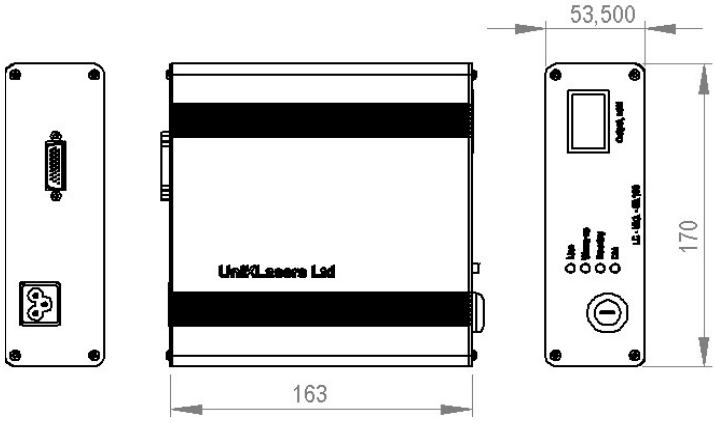
Laser Head: 80x 65x 170mm





Controller

170x 53.5x 163mm



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