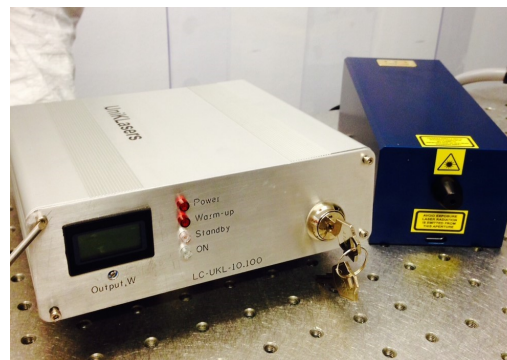


### BRaMMS-Duetto - 320/XXX



BRaMMS - Duetto - 320/100

- from 10mW to 200mW output power at 320nm 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

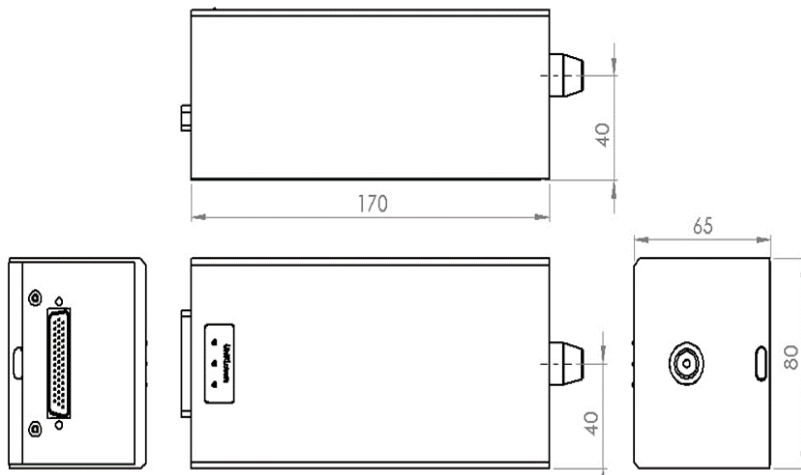
<b>Units</b>
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<b>Output Beam Parameters:</b>		
Output Power (fixed values within range)	mW	10 - 200
Power Control (optional)	—	Externally via manual power adjuster (MPA)
Wavelength	nm	319 ±0.1
Beam Spatial Mode	—	TEM <sub>00</sub>
Beam Diameter at output aperture *	mm	0.8/1.2
<i>* there is a noticeable ellipticity of the output beam due to principal walk-off between SH and fundamental beams inside the nonlinear crystal</i>		
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	±0.8
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
<b>Environmental:</b>		
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
<b>Dimensions and Electrical:</b>		
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.*

**BRaMMS-Duetto - 320/XXX Laser Head and Controller Dimensional Specification**

**Laser Head: 80x 65x 170mm**



**Controller**

170x 53.5x 163mm

