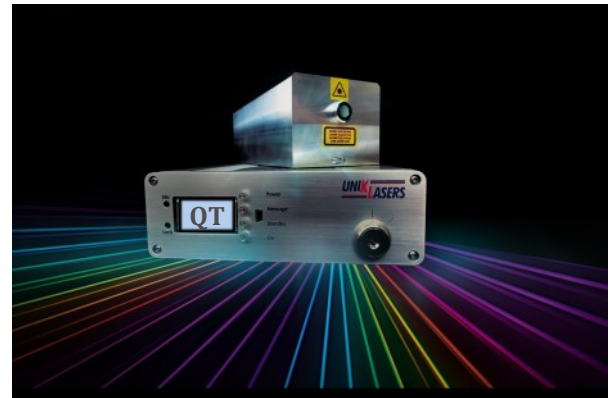


### BRaMMS-Solo - 780.24/XXX QT

- from 10 mW to 100 mW output power at 780.24 nm SLM
- feedback locked Single Longitudinal Mode CW operation
- mode hops and lock loss free
- very low noise performance
- excellent beam quality from smallest footprint



BRaMMS – Solo - 780.24/100 QT

**Units**

<b>Performance Parameters:</b>		
Wavelength	nm	780.24
Output Power (fixed values within range)	mW	10 - 100
Output Power Stability (8 hrs operation, +/-1.5 °C)	%	≤2
Output Power Noise (10 Hz – 10 MHz)	%	≤ 0.1rms
Power Control	–	optional
Beam Spatial Mode	–	TEM <sub>00</sub>
Beam Diameter at output aperture	mm	0.8 - 1.2
Beam Divergence	mrad	≤1, diffraction limited
Beam Pointing Stability	µrad/°C	≤ 5
Longitudinal Mode Structure	–	SLM
Linewidth (intracavity SLM, no external reference)	MHz	≤ 0.3
Line Spectral Position Stability (8 hrs operation)	pm	±1
Coherence Length	m	≥ 100
Mode Hops Free Fine Tuning Range	GHz	optional
Polarisation	–	Linear, Vertical; ≥100:1
Warm up time (output power dependent)	min	5-30
<b>Environmental requirements:</b>		
Thermal	–	Laser Head Interface Temperature Stability +/- 0.5 °C within Ambient Temperature Range 18 – 30 °C
Storage Temperatures	°C	0 - 50
Humidity	%	5 – 95, non-condensing

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

**BRaMMS-Solo - 780.24/XXX QT**

*Units*

**Laser Head Dimensions:**

Low Power Laser Head Footprint - up to 50 mW output power (length x width)	mm	207 x 80
High Power Laser Head Footprint - up to 50 mW output power (length x width)	mm	222 x 110
Beam Height	mm	75

**Controller Dimensions:**

Controller (length x width x height)	mm	238 x 170 x 54
Cable (length)	m	2

**Optional Features and Items:**

Remote Switch On/Off functionality via GUI
Remote Output Power adjustment via GUI
Remote Control and Diagnostics service plan
Thermo-Electrically Controlled Chiller (Cooling Capacity ( $\Delta T=0$ ) - 90W; Flow Rate - 4 l/min)



**Laser Radiation**  
 Avoid direct exposure to beam  
 Max output power: 150 mW  
 Wavelength: 780.24 nm  
 CW operation  
 Class IIb laser product (IEC 60825-1)

