

BRaMMS DPSS Laser Technology

Technology Feature	Benefit	Details
Ultra high efficiency for 2 nd harmonic conversion	Unique output power scalability	Upto 10 times higher conversion efficiency than leading designs
Feedback locked Single Longitudinal Mode CW operation	Very low noise, free from mode hops	< 0.1% rms < 1MHz line width
Long coherence length, > 100m	A much broader range of applications	From light hungry Bio-Med to very large scale metrological applications
Gaussian beam profile	Diffraction limited spot size	TEM ₀₀ , < 1 mrad divergence
Stabilised thermal management at multiple points	Very high beam pointing stability	≤ 5μrad/ °C
Low power consumption	Reduced requirement for laser head heat dissipation; no fans required	From < 20W; lowest power consumption for given output
Compact laser head and separate controller communicating via GUI with a notebook	Greatly reduced real estate	Laser heads from 50mm x 50mm x120mm; Controllers from 170mm x 53.5mm x 163mm

