方全有限公司
Rapitech Enterprise Co.,Ltd.

連續式固態雷射
Continuous Solid-State Laser

Laser Quantum ignis

Ignis系列 紅光雷射
Ignis High Specification Red Laser

Typical Applications

- Raman spectroscopy
- biomedical imaging
- fluorescence spectroscopy

The ignis at 660nm and 500mW is among the most powerful and compact red lasers available today and forms part of Laser Quantum's red laser range. It has excellent beam characteristics and, using our innovative stress-free cavity architecture, the ignis is suitable for a wide range of scientific applications including fluorescence imaging and spectroscopy.

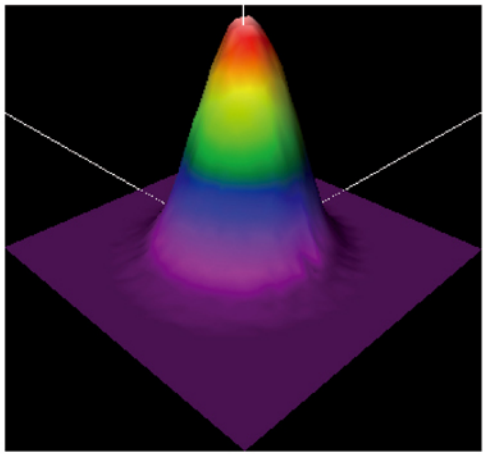
Specifications

wavelength	660nm	671nm
power	500mW	
beam size	0.75 ± 0.15mm	
spatial mode	TEM_{00}	
ellipticity	< 1:1.2	
bandwidth	~30 GHz	
divergence	< 3 mrad	
M-squared	< 1.2	
power stability *1	< 1% rms	
Beam pointing stability *2	10 µrad/°C	
RMS noise	≤0.6%	
polarisation ratio	> 100:1	
polarisation direction	horizontal	
coherence length	~3mm	
Beam angle *3	< 2 mrad	
operating temperature	22 - 37°C	
head weight	0.7 kg	
umbilical length	1.5m	
Warm-up time	< 15 minutes	

Subject to change without notice.
*1. Test duration >100 hrs.
*2. Measured up to 10KHz.
*3. Tolerance relative to head orientation.

Features include

diffraction limited beam, permanently aligned cavity, low noise, stable output, compact design, low M-squared, zero-stress cavity, hermetically sealed, single phase mains driven, diode >40,000 hrs MTTF and full RS232 control.



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