連續式固態雷射
Continuous Solid-State Laser

Ciel系列 藍光雷射

Ciel 473nm Blue CW DPSS Laser

Typical Applications

- laser doppler anemometry
- laser display
- biomedical imaging

The ciel laser system is at the cutting edge of DPSS laser technology. The innovative architecture generates up to 350 mW of blue CW at 473 nm. The combination of high power at this wavelength, good collimation and a compact package make this a unique product.

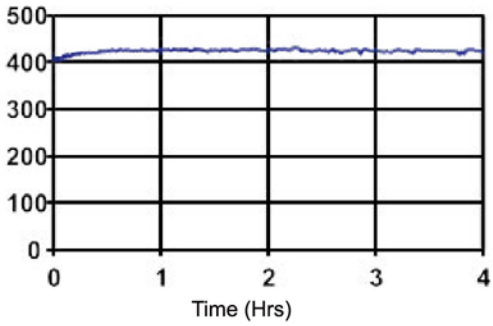
Specifications

power	100, 250, 350 mW
wavelength	473 nm
beam size	1.4 mm
band width	< 60 GHz
spatial mode	TEM_{00}
divergence	0.6 mrad
M-squared	1.3
power stability	< 3.0 % rms *1
RMS noise	< 5.0 % rms
noise bandwidth	1 Hz to 6 MHz
polarisation ratio	100:1
polarisation direction	horizontal
beam angle	1 mrad *2
operating temperature	15 - 35 deg C
head weight	1.3 kg
umbilical length	1.5 m
warm-up time	15 min

*1. test duration 8 hrs
*2. tolerance relative to head orientation

Features

compact design
zero stress,
pemanently aligned cavity
hermetically sealed
OEM power supply available
extended warranty available
single phase mains driven
diode 18,000 hrs MTBF
direct modulation upto 30kHz
high brightness beam
RS232 control



A standard power test shows an initial warm-up period followed by a sustained, stable 473nm output at >400 mW.

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