DEL MAR PHOTONICS

Continuous-Wave Solid-State Lasers (CW)

Trestles-CW Continuous-Wave Ti:S Laser

- 700-1000 nm broad wavelength tuning range (with a single set of optics)
- >600 mW @ 800 nm average output power
- Integrated pump laser option (from 2 W to 10 W)
- Etalon option for narrower generation linewidth (<2 GHz)
- PC connection for automated wavelength tuning.

Trestles-CW solid-state laser

Product overview

Continuous-wave Ti:Sapphire laser features broad wavelength tuning range (700-1000 nm) and finds itself as a useful tool for many fields of fundamental research, especially various spectroscopy applications.

The wavelength tuning is carried out by a birefringent Lyot filter and can be either manually controlled or motorized via a step motor with USB connection to a PC. Two etalons can be optionally placed into the resonator in order to narrow the linewidth of the generated radiation down to 2 GHz.

The CW Ti:Sapphire laser needs to be pumped by a CW DPSS or Ar-Ion pump laser at 532 nm. Our company offers the oscillators without the pump laser, as well as a version with integrated pump laser with pump power varying from 2 W to 10 W.

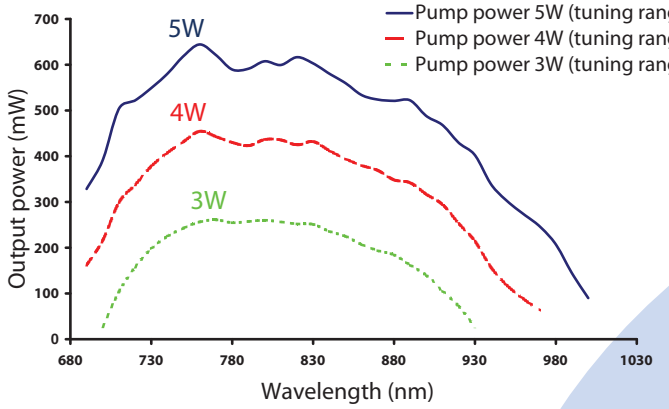
Possible application of the TiC laser:

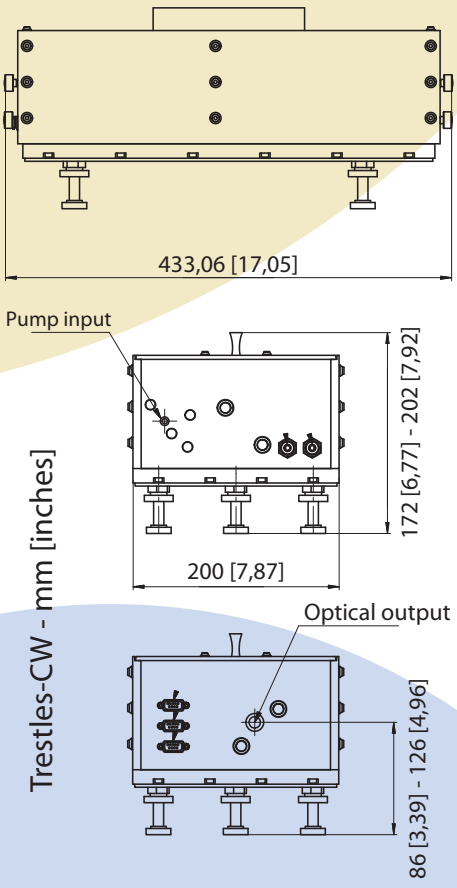
- Spectroscopy
- Semiconductor device research
- Raman spectroscopy

Trestles-CW technical specifications

Wavelength tuning, nm	700-1000 (@5 W pump power)*
Average output power, mW	600** (@800 nm, 5 W pump power)
Linewidth, GHz	< 45 < 2 (with 2 etalons) < 20 (with 1 etalon)
Spatial mode	TEMoo
Divergence, mrad	< 2
Polarization	horizontal

** - the tuning range with 3W and 4W pump laser may be also extended to 700-1000 range, but with decrease of average power around the 800 nm region.*
*** - depends on pump laser power.*





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