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Continuous-Wave Solid-State Lasers

Continuous-Wave Ti:S Laser TiC

• 700-1000 nm broad wavelength tuning range (with a single set of optics)

- >1.5 W @ 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.
- Fiber-coupled output option



integrated pump version)

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-lon 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. Optional fiber-coupled modification is available. The radiation is steered into a fiber with 4 um core diameter. The optical scheme allows easy switching between the free-space and the fiber outputs via a flip mount.





TiC - mm [inches]

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