

Continuous-Wave Solid-State Lasers

CW

## Continuous-Wave Ti:S Laser TiC

- Automated tuning range of 700 to 1000 nm
- Output average power >1.5 W (@8 W pump, 800 nm)
- Linewidth down to <2 GHz
- 2 to 10 W pump laser integration option
- Optional routing systems for microscope coupling



TiC-FF (fiber-coupled and integrated pump version)

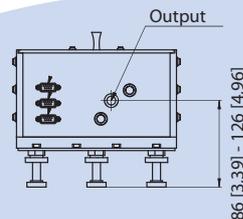
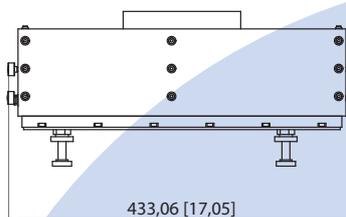
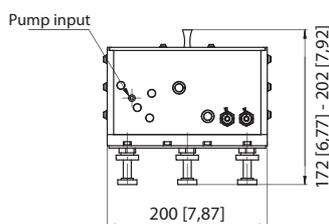
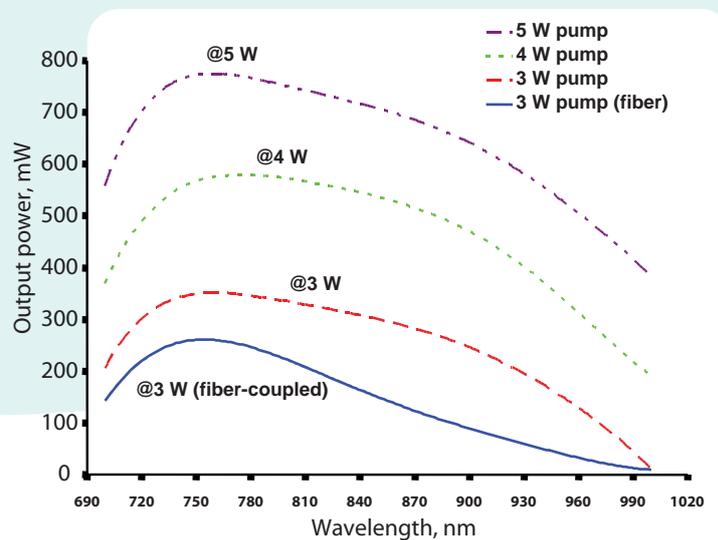
### Product overview

The TiC CW tunable laser is the choice with applications where tuning range and high average power level are a must, such as spectroscopy, semiconductor research and many more. The laser system features titanium-sapphire active medium for obtaining broad tuning range of 700 to 1000 nm with linewidth of <45 GHz. The system is equipped with a birefringent Lyot filter for manual or USB-controlled wavelength tuning\*. Learn more... A spectrometer unit can be also integrated into the system for fully automated tuning process. Optional thick and thin automated etalons can be installed into the resonator cavity to bring the linewidth down to <2 GHz. Windows PC software is provided with the laser system for easier tuning and calibration.

### TiC technical specifications

Wavelength tuning, nm	700-1000*
Average output power, mW	700*
Average output power at optional fiber output, mW	400*
Fiber type (optional)	single-mode, FC-FC, 1 m, 4 um core
Linewidth, GHz	< 45 < 2 (with 2 etalons) < 20 (with 1 etalon)
Spatial mode	TEM <sub>00</sub>
Divergence, mrad	< 2
Polarization	horizontal (at free-space output)

\* - depends on pump laser power, the values are given for 5 W pump power.



TiC - mm [inches]