

Press Release

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DL pro 780 – The Ultimate Tunable Diode Laser

Widely tunable & ultra stable single frequency diode laser

More than twelve years of experience combined with continuous product improvement in the field of grating stabilized diode lasers now culminates in the next generation of external cavity diode lasers:

TOPTICA Photonics AG introduces at the LASER 2007 the “DL pro 780”, the premium Littrow-type grating stabilized diode laser.

Key specifications:

- Wavelength tuning range 765 nm – 795 nm
- Optical output power up to 80 mW
- Modehop-free tuning > 50 GHz
- Narrow linewidth ~ 500 kHz
- RockSolid II design

The DL pro 780 combines extended tunability with highest stability, two previously incompatible characteristics of external cavity diode lasers. This is possible only due to TOPTICA's innovative mechanical RockSolid II design. Based on a novel engineering approach, it provides much reduced susceptibility against environmental acoustic noise. Special care has been taken also in choosing dimensions and materials to reduce frequency shifts caused by variations of the ambient temperature. The laser can easily be set to any wavelength within the specified tuning range of 30 nm. An optimized pivot point leads to a modehop-free scan range so far unmatched by any other commercial Littrow-type grating stabilized diode lasers. As the ideal laser for many demanding applications, the DL pro 780 ensures TOPTICA's leadership in the market for external cavity diode lasers for the years to come.

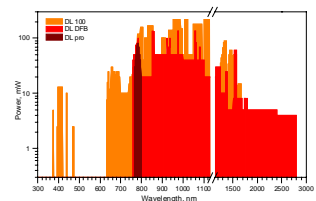
Typical applications for the DL pro 780:

- High resolution laser spectroscopy
- Laser cooling & BEC
- Electromagnetically induced transparency
- Magnetometry

TOPTICA Photonics AG develops, manufactures, services and distributes technology-leading diode and fiber lasers and laser systems for scientific and industrial applications. Sales and service is offered worldwide through TOPTICA Germany and its subsidiary TOPTICA USA, as well as all through 13 distributors. A key point of the company philosophy is the close cooperation between development and research to meet our customers' demanding requirements for sophisticated customized system solutions and their subsequent commercialization.



DL pro 780



Available wavelengths with TOPTICA's state-of-the art diode laser systems

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