



**PRESS RELEASE**  
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## Tunable Narrowband Diode Laser with Amplifier

The new NarrowDiode Laser from **Radiant Dyes** is a small-sized, low-priced external cavity Diode Laser. The wavelength separation is realised by a low loss interference filter instead of the common diffraction grating. Due to this new design, the Laser is characterised by a very high robustness against mechanical and thermal disturbances.

Another advantage is the fixed output beam that leads to a very high stability because the direction and position of the output beam are almost independent from the wavelength. Furthermore, the Laser guarantees a very small bandwidth and a very large tunability at the same time. It also can be wavelength stabilized by frequency modulation spectroscopy. With the new amplifier, output energies up to 1.5W are reachable.

### KEY FEATURES

- Very small bandwidth (down to 20kHz) power spectrum of the beat signal between two lasers
- Typical wavelength: 780nm, 798nm, 852nm (others on demand)
- Typical output power: <50mW; and with amplifier: >1.5W
- Tunability: 7 GHz mode-hop free by piezo scanning, up to 20nm with mechanical tuning and mode-hopping
- Wavelength stabilization by frequency modulation spectroscopy possible
- Very high robustness against mechanical and thermal disturbances
- Fixed output beam
- Application under extreme conditions, e.g. in space
- Frequency doubling option

For more information, contact **Warsash Scientific** on +61 2 9319 0122 or [sales@warsash.com.au](mailto:sales@warsash.com.au).