



PRESS RELEASE

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Sprout-D: High Power CW Green DPSS Laser System

Warsash Scientific is pleased to announce the release of the Sprout-D, high-power, continuous-wave Green DPSS Laser System from Lighthouse Photonics. Sprout™ is a near-perfect TEM₀₀ mode with extremely low optical noise and excellent long-term stability. It is a next-generation laser designed and manufactured to provide a sealed, turn-key source of collimated green light with high spectral purity.

The Sprout-D is available in 4 different power versions: 5 Watt, 6 Watt, 7 Watt and 8 Watt. The output beam parameters (beam diameter, beam divergence, M2, and polarisation) are exactly the same as the Sprout-G, Coherent Verdi and Spectra-Physics Millennia making it a simple drop-in replacement.

The laser head is a monolithic 3-dimensional design for ruggedness and compactness to minimise the space consumed in your lab or instrument. The pump diode package, integrated inside the laser head, has an expected lifetime of more than 20,000 hours to minimise cost-of-ownership. Locating the pump diode in the laser head rather than the power supply eliminates the fibre optic delivery cable.

Seal™ technology keeps all dirt, dust and moisture out of the laser head to provide years of uninterrupted usage without need for cleaning or maintenance. LockT™ technology locks all laser head optics permanently in perfect alignment.

A Noise Elimination Technology (NET™) option (also available from Warsash Scientific), provides near-zero optical noise in the laser output beam, is available on all models of Sprout-D. Adding the NET™ option allows the Sprout-D to be fully compatible with ultra-low noise applications such as Carrier-Envelope-Stabilisation, optical clocks, and ultra-narrow line width CW Ti:Sapphire oscillators.

KEY FEATURES

- Compact laser head with Seal™ enclosure for long lifetime
- LockT™ optics mounting for permanent laser head alignment
- Long lifetime pump diode pack integrated inside laser head
- Low noise option <0.03% rms with Noise Elimination Technology
- Excellent long-term power stability <0.5% rms over 24 hours
- Rack-mountable or shelf-mountable power supply
- Disconnecting, five metre long control cable
- 5, 6, 7 and 8 W versions

For data sheets, accessories and more information, contact Warsash Scientific on +61 2 9319 0122 or sales@warsash.com.au

