

News Release

Lasers
Opto Electronics

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For Immediate Release

From: Joel A. Kramer, Director of Sales

Blue Laser Offers Operational Precision With Power Stability, Temperature Stabilization and Power Feedback

Boynton Beach, FL — Tower Optical announces the availability of its new solid state, diode pumped, Blue Laser for applications that include biotechnology, holography, microscopy, imaging, test and measurement and alignment. Packed with features the 900 Series of blue lasers is offered in both 10 and 20mW versions.

The Model OLBDP-901FS is a diode pumped solid state laser system that provides 10 mW of output power on a continuous wave, CW, basis at a wavelength of 473nm. To enhance the performance of the laser the temperature of the laser module is controlled by an internal thermo electric cooler. Coupled to this is complete laser power feedback, which provides output power stability. A higher power version, the OLBDP-902FS, provides 20 mW of power with the same features.



The lasing medium is Nd:YVO4 with a KTP crystal for intercavity second harmonic generation. The

beam diameter of each laser is <1mm and a beam divergence of typically 1 mrad. The beam mode is TEM₀₀ with a quality factor of $M^2 < 1.2$. This operational performance is delivered over a baseplate operating temperature range of 15°C ~ 35°C.

The laser system includes the laser head and a power supply/controller. In the OEM version the power supply is a DC input module, which develops the thermo electric cooler power and the controlled power for the laser. For other applications a bench top power unit is available which handles an AC input, which is international in nature, 100 VAC to 240 VAC, 50/60 Hz.

The laser systems are \$2,040 for the 10 mWatt version and \$2,582 for the 20 mWatt version, in sample quantities. Substantial discounts apply to OEM quantities. Delivery is stock to four weeks. Contact Tower Optical Corp., 561-740-2525 x 17, sales@TowerOptical.com, or visit www.TowerOptical.com.

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