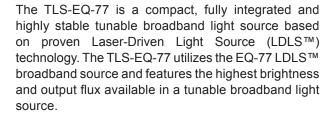
# TLS-EQ-77 Laser-Driven Tunable Light Source



Designed with high throughput applications in mind, the LDTLS can be run continuously and has an extremely long lifetime of more than 10,000 hours between bulb changes. It has high stability, very low noise and is coupled with a precision high-performance monochromator for accurate wavelength selection and repeatable light output across the broad range of 350nm-1100nm.

The spectral resolution can be customized for application specific purposes and ranges in bandwidth from 1nm to 10nm. The fiber coupled output is both flexible and convenient for delivering wavelength selected light precisely where it is needed.

\* Multiple Patents Worldwide



· Highest output flux in the industry for higher throughput

ENERGETIQ LDTLS TM

 Long lifetime of ~10,000 hours between bulb changes for low cost-of-ownership

LASER-DRIVEN TUNABLE LIGHT SOURCE

- Low noise and high stability for precise measurements
- Fast wavelength tuning up to 200nm per second for faster measurements
- Convenient optical fiber output easily integrates into a range of applications
- Achromatic reflective coupling optics for aberration free radiation collection and focusing
- Etendue-matched monochromator with high efficiency optical design for maximum light throughput

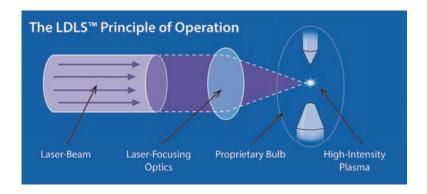
# **Applications**

- Optical Sensor Testing
- Process Monitoring and Control
- VIS/NIR Spectroscopy
- Scientific Research
- Thin-Film Measurements
- Materials Characterization



# **About Energetiq**

Energetiq Technology, Inc. is a wholly-owned subsidiary of Hamamatsu Photonics. Energetiq combines its deep understanding of the plasma physics needed for high-brightness light generation with its long experience in building rugged industrial & scientific products. The result is that users can expect the highest levels of performance combined with the highest reliability.



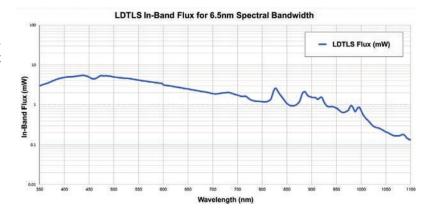
### TLS-EQ-77 with power supply



## **Spectral Output**

TLS-EQ-77 offers enhanced spectral output across a broad wavelength range. The chart on the right shows the spectral output from 350nm - 1100nm.

Optimization for specific OEM applications available.



# **Specifications**

### Overview

• Spectral Range: 350nm to 1100nm

• Typical Bulb Life: >10,000 hours

· Optical fiber output via SMA connector

• Up to 3mW output power (Wavelength Dependent – 6.5nm bandwidth and 1500µm fiber optics)

### **Physical Specifications**

TLS-EQ-77	System Dimensions (H x W x D)	Weight
Tunable Light Source	266mm x 432mm x 222mm	16.6 kg (36.5 lb)
Power Supply	152mm x 250mm x 132mm	2.9 kg (6.5 lb)

### **Utility Requirements**

Electrical	100-240 VAC, 50/60Hz
Cooling Water	1.0 liter/min (.27 gal/min)
Purge Nitrogen	0.4 liter/min
Compliance	CE Mark

Patent Numbers: US: 7435982; 7786455; 8525138; 8969841; 9048000; 9185786 -- Japan: 5410958; 5628253 -- Korea: 10-1507617 -- UK: GB2450045 -- Other Patents Pending



Energetiq Technology, Inc. 7 Constitution Way Woburn, MA 01801

Phone: +1 781-939-0763 Fax: +1 781-939-0769 Email: info@energetiq.com www.energetiq.com Specifications are subject to change without notice. TLS-EQ-77—2/2019

©2019 Energetiq Technology, Inc. All rights reserved.