LDTLS™ Laser-Driven Tunable Light Source



Compact, Long Life, High-Brightness, Broadband with Fiber-Coupled Output

The Laser-Driven Tunable Light Source (LDTLS™) is a compact, fully integrated and highly stable tunable broadband light source that is based on our proven Laser-Driven Light Source (LDLS™) technology. The LDTLS™ utilizes our EQ-77 LDLS™ broadband source and features the highest brightness and output flux available in a tunable broadband light source.

The LDTLS™ offers an extremely long lifetime of ~9000 hours between bulb changes for low cost of ownership. 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 range of 300nm-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

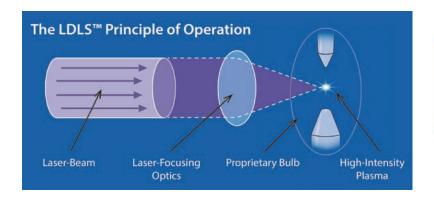
Features and Benefits

- Highest output flux in the industry for higher throughput
- Long lifetime of ~9000 hours between bulb changes for low cost-of-ownership
- Low noise and high stability for precise measurements
- Fast wavelength tuning up to 200nm per second for faster measurements
- Optical fiber output for flexibility of integration to application for ease of use
- 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 Testing
- Process Monitoring and Control
- VIS/NIR Spectroscopy
- Scientific Research
- Thin-Film Measurements
- Materials Characterization







LDTLS™ lamp house with power supply

Specifications

Overview

- Spectral Range: 300nm to 1100nm
- Typical Bulb Life: >9,000 hours
- Optical Fiber Output via SMA connector, NA = 0.22
- Up to 3mW output power (Wavelength Dependent 8nm bandwidth and 1500µm fiber optics)

Physical Specifications

LDTLS	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

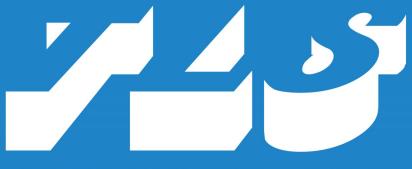
• Electrical	100-240 VAC, 50/60Hz
Cooling Water	1.0 liter/min (.27 gal/min)
Purge Nitrogen	0.4 liter/min
• Compliance	CE Mark

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

About Energetiq

Energetiq Technology, Inc. is a developer and manufacturer of advanced light sources that enable the analysis and manufacture nano-scale structures and products. The Energetiq team combines its deep understanding of the high power 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.





TE LINTELO SYSTEMS BV

photonics is our passion!

lasers
fiber optics
optical components
interferometry
opto-electronics equipment
light metrology



Te Lintelo Systems

For more than 30 years Te Lintelo Systems represent prominent suppliers from all over the world for the Benelux countries with well-educated engineers, experience and knowledge. Over the years we became the specialist in the photonics field. Together with our high end suppliers we have the answer for you!

Te Lintelo Systems is your reliable source and long term partner. Service on all levels is for us our daily business. Our experienced team is fully equipped to assist you with finding your best optical business solution.

Let's get in touch!