EQ-9 LDLS™



High-Brightness, Long-Life, Broadband Laser-Driven Light Source

Based on the highly successful Laser-Driven Light Source (LDLS) technology, the EQ-9 offers the highest radiance and irradiance available in a truly broadband white light source. The EQ-9 features a compact lamp house, with clean construction that ensures long life and ultimate stability. With a 170nm-2100nm wavelength range, and a choice of dual-beam output or a single-beam output with retro-reflector, the EQ-9 is flexible for a broad variety of applications.

Researchers using light for imaging and analytical spectroscopy in a variety of applications in the life sciences and materials sciences need light sources capable of providing extreme high brightness and power across a broad wavelength range.

Traditionally, multiple lamps (Tungsten/Halogen, Xenon-arc, Deuterium) have been used to cover this broad spectral range. However, combining multiple lamps is costly and optically inefficient, and the use of electrodes within these lamps limits their ability to achieve the high brightness or power needed for the most demanding applications. Furthermore, traditional electrode-driven light sources have short life, need to be changed frequently, and during their life the lamp output declines constantly.

To address this problem, Energetiq has developed a revolutionary single light source technology called the LDLS™ Laser-Driven Light Source* that enables extreme high brightness, with a relatively flat spectrum, from 170nm through visible and beyond, combined with lifetime an order of magnitude longer than traditional lamps. The LDLS technology is fully embodied in the EQ-9 — an extremely bright and stable, compact CW broadband source that is specifically designed for critical spectroscopic and imaging applications.

* Multiple Patents Worldwide

Features and Benefits

- Radiance >10mW/mm².sr.nm (wavelength dependent)
 - Fastest measurements
- · Very low noise and excellent spatial stability
 - Precise & repeatable results
- Dual beam output or higher-output single-beam (using integrated retroreflector) for flexibility
 - For optical flexibility
- Compact lamphouse and clean construction
 - Long life and stability
- Extreme high brightness across broad spectrum
 - UV-Vis-NIR (170nm 2100nm)
- Electrodeless operation
 - Long life and low cost of ownership

Applications

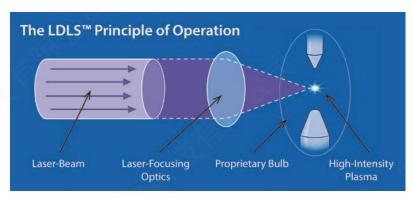
- Semiconductor Metrology & Inspection
- Monochromator Source
- UV-Vis-NIR Spectroscopy
- Photoemission Electron Microscopy (PEEM)
- Materials Characterization
- Advanced Imaging
- Thin Film Measurements



About Energetiq

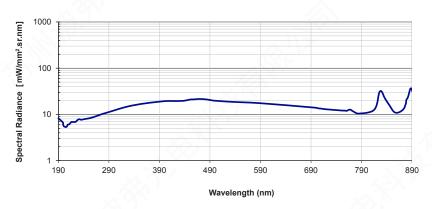
Energetiq Technology, Inc. is a wholly-owned subsidiary of Hamamatsu Photonics. Energetiq combines its deep understanding of the plasma physics needed for high-brightness light generation with its long experience in building rugged industrial & scientific products. The result is that users can expect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

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EQ-9 Spectral Radiance



Specifications

Overview

- CW spectral output from 170nm-2100nm
- Large collectable view angle Numerical Aperture (NA): up to 0.56 both sides
- Typical bulb life >9,000 hrs.
- Flexible optical interface for single or dual beam output

Physical Specifications

EQ-9	System Dimensions (H x W x D)	Weight
Lamp House	109mm x 120mm x 43mm	0.91 kg (2 lb)
 Laser Drive Module 	38mm x 197mm x 93mm	0.68 kg (1.5 lb)

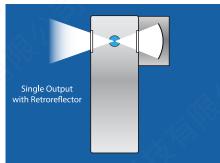
Utility Requirements

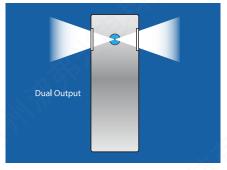
ElectricalCooling Fan12 VDC, 140W max.30 CFM Forced air cooling

Purge Nitrogen 500 sccm max flow; Grade 6 recommended

• Compliance CE Mark

Configurations





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



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