

# LDLS™ EQ-99 Manager



## Smart Controller for Laser-Driven Light Sources

The EQ-99 Manager offers enhanced control of the EQ-99X and EQ-99 series Laser-Driven Light Source (LDLS), adding valuable functionality to the brightest, longest lasting, broadband light source available today.

### USB Computer Interface

The EQ-99 Manager connects to a computer with a simple USB interface, allowing easy control and monitoring of the Laser-Driven Light Source.

### LDLS Status Monitoring

Monitor the status of the LDLS, including bulb operation hours, through the USB interface or on the high visibility front-panel display.

### Advanced Shutter Control

The EQ-99 Manager includes advanced shutter control with a variety of control modes and programmable shutter speed. The optional EQ-99 Shutter can be mounted to the window of the EQ-99X, EQ-99 or directly to an optical bench.

### Universal Power Supply

The EQ-99 Manager houses a universal power supply for worldwide operation without a separate power adapter.

### Compatible with the Latest EQ-99 Products

The EQ-99 Manager is a smart controller designed to be used with the EQ-99X, EQ-99X-FC, EQ-99, EQ-99-FC and EQ-99CAL Laser-Driven Light Source products.

## Energetiq's Laser-Driven Light Sources

The groundbreaking Laser-Driven Light Source (LDLS) is the brightest, longest lasting, broadband light source available today, making it ideal for researchers working in demanding imaging and analytical spectroscopy applications. Energetiq's patented laser-driven technology enables extreme high brightness over a broad spectral range — from 170nm through visible into the near infrared.

- Broadband light source covers the entire spectral range, eliminating the need for multiple lamps
- Extremely high brightness across the complete spectrum
- Patented laser-driven bulb technology for ultra-long lamp life
- Excellent spatial and power stability enhances repeatability
- Electrodeless operation reduces consumable costs and minimizes calibration



## 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.*

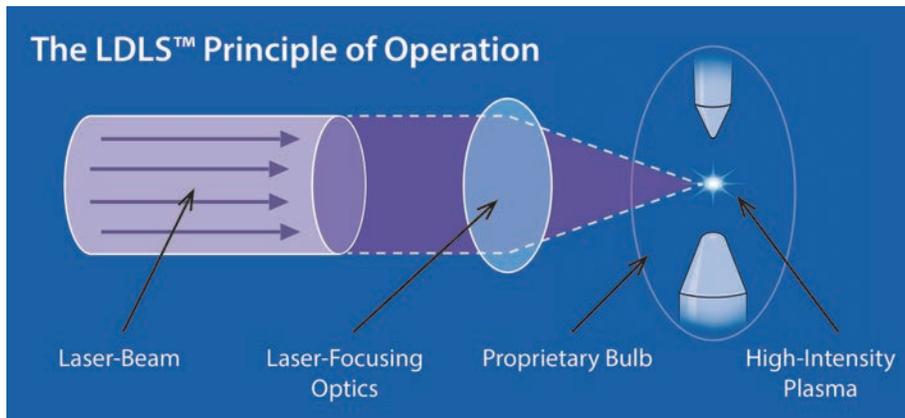


## Specifications

Physical Specifications	Dimensions (H x W x D)	Weight
<ul style="list-style-type: none"> <li>• Controller</li> </ul>	47 x 215 x 280mm (1.8 x 8.5 x 11 in.)	1.6 kg (3.4 lbs)
Utility Requirements	<ul style="list-style-type: none"> <li>• Electrical 100-240v, 50/60Hz, 2.5A</li> <li>• Compliance CE Mark</li> </ul>	
Shutter Performance	<ul style="list-style-type: none"> <li>• 100ms minimum exposure time, 2Hz maximum cycle rate.</li> </ul>	

## Energetiq's Laser-Driven Light Source Patented Technology

Winner of the prestigious R&D 100 Award for technological significance and the Prism Award for Photonics Innovation, Energetiq's Laser-Driven Light Source is developed with revolutionary technology that offers unprecedented brightness and long life across the complete spectrum, from 170-2100nm.



Energetiq's innovative LDLS technology uses a CW laser to directly heat a Xenon plasma to the high temperatures necessary for efficient deep ultraviolet production. In traditional approaches, brightness, UV power, and lamp life are limited by the use of electrodes to couple power to the plasma. In contrast, LDLS technology creates small, high brightness plasma without electrodes, allowing efficient collection of light, a broad spectral range from the deepest UV through visible and beyond, and long lamp life.

