

# TriLume Spectrum Engine - Basic



The **TriLume Spectrum Engine** is a revolutionary light source designed for ultimate versatility and ease of use.

- **Customizable Broadband Light Source:**  
Combine the engine with up to 3 different LEDs to create the perfect light source for your specific application.
- **Compact and Efficient:**  
The low-power design and small footprint allow for seamless integration into portable systems.
- **Plug-and-Play Simplicity:**  
Reduce development time and cost with our intuitive design that simplifies integration.
- **Unmatched Efficiency:**  
The TriLume Engine only activates the chosen LED at any given time, maximizing efficiency.
- **Contamination Protection:**  
A specially designed window safeguards against contaminants while ensuring exceptional light output.

## Features:

- Choose from up to three distinct wavelengths to suit your specific needs.
- Operate in continuous or pulsed mode for optimal stability in your application.
- The 30mm optomechanical cage system provides a wide range of mounting options for easy setup.
- Effortless electrical connections ensure compatibility with various devices.
- An integrated photodiode monitors output power, while an on-board temperature sensor allows for thermal tracking.
- Dimension<sup>^</sup>: 55mm(L) x 55mm(W) x 38mm(H)  
*^without mounting*
- Compatible with Silanna's products such as
  - 235nm Flat window (SF1-3C3FWL1-TR)
  - 235nm 30° Parabolic Lens (SF1-3U8P3L1-TR)
  - 255nm Flat Window (SN3-5C3FWL1-TR)
  - 255nm 30° Parabolic Lens (SN3-5U8P3L1-TR)

## Compatible Accessories:

- Constant Current Driver (SCC-S40) for precise LED control.
- Transimpedance Amplifier Evaluation Board (EB4) for simplified output monitoring.
- Ø6mm rod for 30mm Cage system.

## How to order:

Please contact sales at [Sales\\_UV@silanna.com](mailto:Sales_UV@silanna.com) to discuss the different variants available that would suit your application.



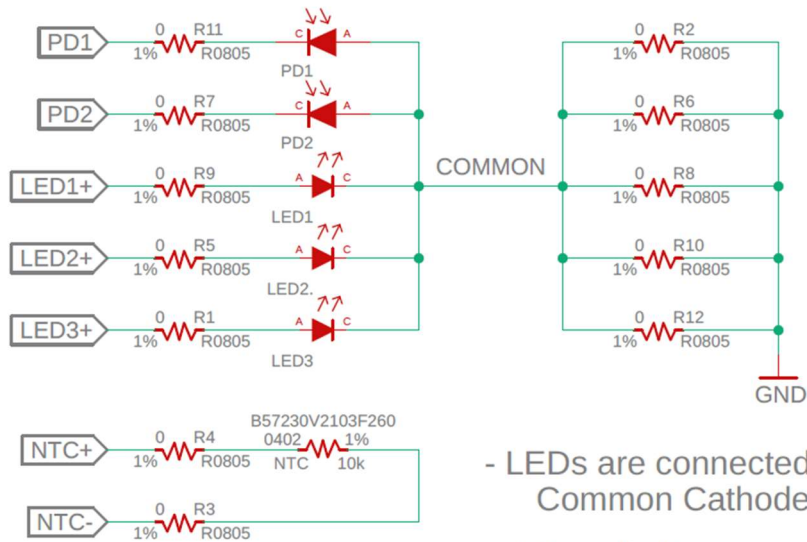
Front View –  
Aperture and 30mm cage  
system mounting



Back View –  
Connection board

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## Circuit Diagram:



- LEDs are connected with Common Cathode.
- Photodiodes operate in Photovoltaic mode.

## Dimension:

