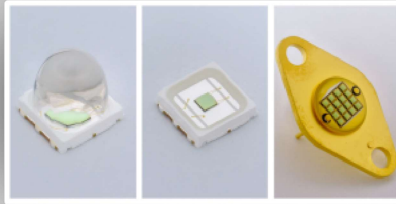


## epitex® Spectro Series LEDs

You are here: [Home](#) / [Technology](#) / [LED](#) / epitex® Spectro Series LEDs



## epitex® Spectro Series LEDs

### High Power, Broadband LEDs

Ushio Opto-Semiconductors, Inc. has developed a broadband LED that produces the world's maximum output of 160 mW between 400 and 1000nm, covering the range from visible light to near-infrared light.

Available with a variety of packaging options, this LED uses a fluorescent material featuring a continuous spectrum, making it advantageous for use in the following applications:

- **Agricultural and bio-medical:** determining the type and amount of a substance (e.g. sugar content or blood oxygen saturation level)

*Well-suited because:* the absorption characteristics of near-infrared light differ from one substance to another; can meet demand for smaller/portable measuring devices

- **Sorting and recycling:** e.g. material, color, and other properties of PET bottles

*Well-suited because:* light source can be combined with a photodetector

- **Light source:** improves options for miniaturization

*Well-suited because:* can use one device and avoid installing multiple devices to measure different materials (since conventional near-IR LEDs provide monochromatic light from one device); removes adjacent heating issues from halogen sources, which require a heat dissipation jig that can prohibit size reduction

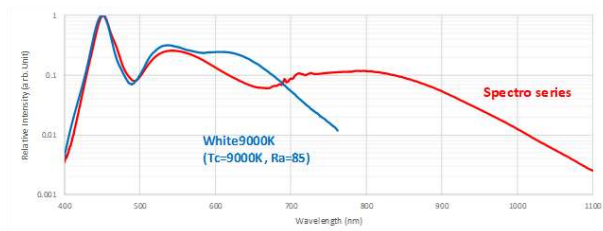
### FEATURES & BENEFITS

- Broadband spectrum (400 – 1000nm)
- High output power (160mW)
- Longer lifetime compared to lamps
- Customizable (array type; COB size and shape)

### APPLICATIONS

- Halogen lamp substitute
- Instrumentation – e.g. light source for spectrophotometer
- Optical sorting and recycling
- Bio-medical

### SPECTRAL DATA





and light output: 100,000 hours for longevity

other wide wavelength range LEDs; avoids short lifetime of

halogen sources that require frequent replacement

BRANDS

PRODUCTS

SUPPORT

CORPORATE

CONTACT

ESTORE



## Downloads

 [Download LED Product Map](#)

## Contact Us

[Online Inquiry](#)

© 2024 Ushio America, Inc. All rights reserved. | [Privacy Policy](#) | [Terms of Use](#) | [Global Network](#)

