



SE-LED-UV



Multi-Wavelength UV LED Illumination System

The SE-LED-UV Illumination System is a compact, high-stability ultraviolet light source designed for spectroscopy, fluorescence excitation, material inspection, and analytical instrumentation.

It integrates four independently driven UV LEDs spanning deep-UV to near-UV, delivering stable optical output, precise current control, and robust thermal performance. Designed for laboratory and OEM environments, the system prioritizes optical stability, reliability, and long service life.



Key Platform Features

- Four discrete UV wavelengths in one system
- Independent constant-current drive per LED channel
- Smart software and analog control with sync operation
- Industrial-grade power architecture
- Low noise, stable optical output
- Compact, thermally optimized design
- OEM-ready and customizable
- SMA fiber optic output connection
- Precise adjustable optical power via 10-turn potentiometer
- Fail-safe controller reset and protection logic
- **Additional wavelength options available upon request**

Upcoming Features

- External TTL modulation input
- Analog control input (0–5 V) for power and intensity adjustment



System Specifications

Wavelength	Drive Current	Typical Radiant Output	FWHM
255 nm	500 mA	51 mW	13 nm
295 nm	700 mA	95 mW	12.3 nm
340 nm	350 mA	170 mW	12 nm
365 nm	700 mA	775 mW	12 nm

Optical Tolerances

- Peak wavelength: ± 5 nm
- Radiant flux: $\pm 5\%$