

Teksan Co.

Light Spectroscopy Instruments

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Broadband Spectrometer (Emerald)

High Resolution Spectrometer for Maximum Flexibility

Full option and user-friendly computer program



Application Areas

- Engineering
- Food & Beverage Quality Control
- Chemistry
- Laser Characterization
- Biology
- Physics & Astronomy
- Protein & Nucleic Acid Analysis
- Volcanology
- Color Analysis
- Environments
- Nanotechnology
- Polymers

Emerald is a small-footprint, high-resolution spectrometer that is well suited for applications such as wavelength characterization of lasers and LEDs, monitoring of gases and monochromatic light sources, and determination of elemental atomic emission lines, Chemicals absorption, and color analysis, depending on spectrometer configuration, optical resolution as fine as ~ 0.02 nm (FWHM) is possible. Also, users can add Emerald accessories such as light sources, probes and optical fibers to configure a variety of application-specific systems. Emerald draws power from the both power supply and also host PC, eliminating the need for an external power supply.

Emerald is perfect for applications where fast reactions need to be monitored and high resolution is necessary, such as chemistry and biochemistry applications. Data programmed into a memory chip on each Emerald includes wavelength calibration coefficients, linearity coefficients, and the serial number unique to each spectrometer. Our spectrometer operating software simply reads these values from the spectrometer. a feature that enables hot swapping of spectrometers among PCs. Emerald Spectrometer connects to a notebook or desktop PC via USB port.