Electro-optical spectrometer

Optical spectroscopy is a technique that is used to measure light intensity in the ultraviolet (UV), visible (VIS), near-infrared (NIR), and infrared (IR) range of the electromagnetic spectrum.

Edmund Optics offers a range of optical spectrometers and compatible accessories. Our selection includes gas cells, reflectance standards, phantom samples, fiber optics, and light sources--along ...

The following table provides a condensed listing of performance applications and ranges for each electro-optical technique/capability.

Utilize the unique characteristics of photons across different regions of the electromagnetic spectrum to probe the optical and electronic properties of chemical systems, materials and devices for energy ...

In the case of THz spectroscopy, the incident THz pulse induces a birefringence in an electro-optic medium which is proportional to the electric field of the pulse. This varying birefringence can be ...

An in-situ FTIR spectrometer can be used to measure the vibrational spectra of a variety of analytes, including those involved in catalytic transformations.

We demonstrate a dual-comb spectrometer based on electro-optic modulation of a continuous-wave laser at 10 GHz. The system simultaneously offers fast acquisition speed and ...

In this work, we designed an innovative method for electro-optical measurements, which surpasses such limitations providing a compact and easy to implement characterization system while keeping high ...

An optical spectrometer (spectrophotometer, spectrograph or spectroscope) is an instrument used to measure properties of light over a specific portion of the electromagnetic spectrum, typically used in ...

To solve this problem, we present a new conceptual approach for the so-called spectral decoding technique, where a chirped laser pulse interacts with a THz signal in a Pockels crystal, and ...

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