Indzawo Optic Connect

Spectrometer Illumination

Overview

The spectrometer uses a prism or a grating to spread the light into a spectrum. This allows astronomers to detect many of the chemical elements by their characteristic spectral lines.Other namesSpectrographRelated itemsMass spectrographOverviewAn optical spectrometer (spectrophotometer, spectrograph or spectroscope) is an instrument used to measure properties of over a specific portion of the, typically us. Spectroscopes are often used in and some branches of. Early spectroscopes were simply with graduations marking wavelengths of light. Modern spectroscopes generally use a A spectrograph is an instrument that separates light into its wavelengths and records the data. A spectrograph typically has a multi-channel detector system or camera that detects and records the spectrum o. • • • •.

Spectrometer Illumination

When designing the optimal machine vision illumination system, contrast enhancement via proper wavelength selection and optical filtering is key. However, certain tradeoffs must be ...

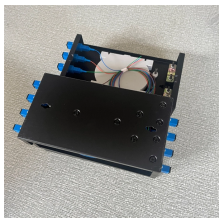
Discover the light sources that will best suit your spectroscopy needs. We have a variety of light sources for UV, Visible, NIR, and Raman spectrometers.

The spectrometer uses a prism or a grating to spread the light into a spectrum. This allows astronomers to detect many of the chemical elements by their characteristic spectral lines.

From measuring the irradiance of standard light bulbs to measuring the exact color coordinates of the yellow in a traffic light, StellarNet spectrometers are used worldwide to routinely ...

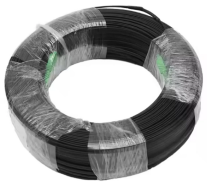
Absorbance measurements require illumination over a broad wavelength range, so require a broadband light source such as the Ossila LED Light Source. A tunable light source provides an adaptable ...

Spectrum Illumination was founded in 1999 by David & Naomi Muyskens. They believed they could deliver a better lighting solution for the machine vision industry at a lower cost.



Machine vision lights assist cameras in a factory setting by illuminating product as is passes by on an assembly line.

Discover the latest optical and imaging technology.



In general, if you need a compact spectrometer you should aim for a short detector (typically 1/4” or 6.4 mm). However, if you require a broad spectral range and/or a high resolution you should aim for a ...

Back Lights are used across a wide range of machine vision applications to provide high-contrast illumination for part inspection or robot alignment. Backlighting typically delivers higher contrast and ...

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: https://indzawo.co.za
Email: sales@indzawo.co.za
Phone: +27 71 296 8473
Address: 22 Quantum Street, Midrand, 1685, Gauteng, South Africa

This document is for informational purposes only. Specifications subject to change without notice.