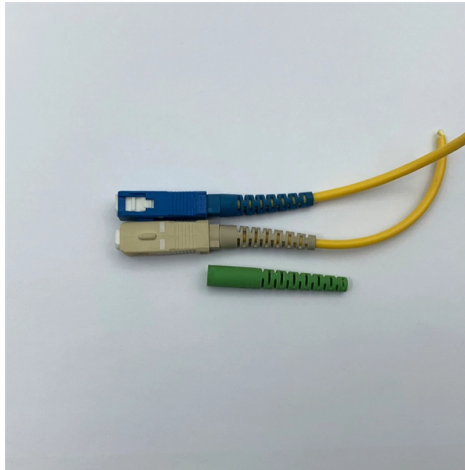


Spectrometer High Light



Overview

highLIGHT offers the highest spectral resolution in convenient flat-field configuration on the market. 0.06nm or better combined with wide single-shot wavelength coverage. Its modular design features an integrated slit holder and. A newly developed optical spectrometer reimagines how light spectra are measured, enabling laboratory-grade performance in a compact, low-cost device. Credit: University of Cambridge, image generated by ChatGPT Researchers have developed a compact, low-cost convolutional spectrometer that delivers. Multichannel spectroscopy involves the detection of optical signals using an array of detectors to capture the entire desired spectrum at once or after a few scans of the grating. When the grating is fixed, such a system is called a spectrograph. " Check out the latest research papers that have been published by researchers. maxLIGHT offers maximum light collection and the highest efficiency in the industry due to its no-slit design. The modular design matches a variety of.



Article Content

A platform for integrated spectrometers based on solution ...

As an example, the integrated spectrometers based on perovskite photodiodes are capable of realizing narrowband/broadband light reconstruction and in-situ hyperspectral imaging.

A New Way To See Life's Hidden Chemistry: \$10 Spectrometer Could

Researchers have developed a compact, low-cost convolutional spectrometer that delivers lab-grade precision for applications ranging from industrial quality control to non-invasive

Advances in cost-effective integrated spectrometers

This review paper shows the market trend for chip-scale spectrometers and analyzes the key metrics that are required to adopt miniaturized spectrometers in real-life applications.

Spectrometers Monochromators and Spectrographs

These spectrometers were traditionally expensive and bulky, used only in demanding laboratories. But the state-of-the-art optics and CCD cameras enabled us to offer a compact and low-cost

Miniature integrated spectrometers towards high-performance and

A spectrometer is an optical instrument that can identify substances based on their response to the wavelength of light, revealing useful information about the properties and

Visible light (VIS) spectrometers

Our VIS spectrometers are designed to provide high throughput and resolution, making them ideal for many applications, including absorption and fluorescence spectroscopy as well as color

The top mass spectrometry releases at ASMS 2026

Explore all of the mass spectrometry instrument releases at ASMS 2026, including our personal highlights for the BioTechniques reader

Hexalight

Hexalight is the groundbreaking spectrometer at the core of witec360 Raman microscopes. It establishes new standards in throughput and spectral flexibility by incorporating an innovative lens

DM2500 MMEDXRF General Type Light-Medium Element Spectrometer

DM2500 MMEDXRF General Type Light-Medium Element Spectrometer for B to Zn Elements SDD Detector XRF Spectrometer X-ray Fluorescence Analyzer Features Multi-Monochromatic Excitation

High Resolution Spectrometer Manufacturer and Supplier

LightMachinery is a high-resolution spectrometer manufacturer and supplier. We are setting the new standard for range, resolution, and speed. Learn more now.

maxLIGHT

The proprietary spectrometer design by HP Spectroscopy uses direct source imaging. Consequently, a narrow entrance slit is not needed and light collection is maximized. Comparing with traditional

Guide to FT-IR Spectroscopy | Bruker

We briefly explain the fundamentals of infrared (IR) spectroscopy and focus on the basic questions about FT-IR, ATR, transmission and reflection.

Spectroscopy 101 - Introduction

Spectroscopy is also used in a wide variety of fields outside astronomy, including materials science, Earth science, medicine, forensics,

The 10 Best Lab Spectrometers of 2026 (Reviews)

Lab spectrometers are powerful tools used by scientists and researchers to analyze the properties of various materials. These instruments

Fujifilm and HORIBA Co-develop High-Sensitivity Inline Raman ...

By combining the Raman spectrometer with a high light-collection-efficiency probe optimized in material and structure for biopharmaceutical manufacturing using Fujifilm's proprietary

highLIGHT | HP spectroscopy

highLIGHT offers the highest spectral resolution in convenient flat-field configuration on the market. Resolution of 0.006nm or better combined with wide single-shot

Visible light (VIS) spectrometers

Instruments for visible light spectroscopy are referred to by different names depending on the context and the industry. In laboratory settings they are often called VIS spectrophotometers or visible

Compact and high-resolution spectrometer via Brillouin integrated ...

This work presents a compact spectrometer using acoustic Brillouin scattering on a hybrid chip, achieving a 0.56 nm resolution in a 1 mm waveguide without an optical pump.

Spectrometers

Process spectrometers practically always have to achieve higher sampling rates. With laboratory devices, one measurement per second is often sufficient, whereas inline spectrometers often sample

Eoguar ICE Chip-Cooled Fiber Optic Spectrometer

The Eoguar ICE Chip-Cooled Fiber Optic Spectrometer is a research-grade, compact spectrometer engineered for high-sensitivity spectral acquisition under ultra-low-light conditions.

Contact Us

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