

Spectrometer Head



AI Overview

A spectrometer head is a compact device used for measuring the intensity of light across different wavelengths, often integrated into larger spectrometer systems for various applications.

Key Features of Spectrometer Heads

- Compact Design:** Many spectrometer heads, such as the C16767MA from Hamamatsu, are ultra-compact and fingertip-sized, making them suitable for integration into portable devices and applications where space is limited.
- Wide Wavelength Range:** Spectrometer heads can cover various wavelength ranges. For example, the C16767MA supports the ultraviolet region from 190 to 440 nm, while other models like the C12880MA can measure wavelengths from 340 to 850 nm.
- High Sensitivity:** These devices are designed to provide high sensitivity and accurate measurements, making them ideal for applications such as water quality analysis, atmospheric monitoring, and semiconductor process monitoring.
- Integration Capabilities:** Spectrometer heads can be easily integrated into existing systems, allowing for real-time analysis and monitoring in various fields, including environmental science, material analysis, and industrial applications.

Applications

- Environmental Monitoring:** Used for analyzing pollutants in air and water, such as NO and SO₂ levels.
- Material Analysis:** Helps in identifying the composition of materials by analyzing their spectral signatures.
- LED Testing:** Some spectrometer heads are specifically designed for testing LEDs, providing traceable measurements for luminous flux and color characteristics.

Conclusion

Spectrometer heads are versatile tools essential for various scientific and industrial applications. Their compact size, high sensitivity, and ability to integrate into larger systems make them invaluable for precise measurements across different wavelengths. For more detailed specifications and options, you can explore products from manufacturers like Hamamatsu and Ocean Optics.

Article Content

Mini-spectrometer C12666MA

The C12666MA is an ultra-compact (Fingertip size) spectrometer head developed based on our MEMS and image sensor technologies. The adoption of a newly designed optical system has achieved a

Fingertip-Sized Mini-Spectrometer | Hamamatsu

Hamamatsu's C16767MA ultra-compact spectrometer head is equipped with an image sensor with enhanced UV resistance that supports high UV sensitivity and

Mini-spectrometer

The C12880MA is a high-sensitivity, ultra-compact (finger-tip sized) spectrometer head that supports the long wavelength region (up to 850 nm). Hermetically sealed packaging provides improved humidity

Micro-spectrometer C12666MA - Shop at Hamamatsu

Mini-spectrometer micro series, finger-tip size, ultra-compact spectrometer head integrating MEMS and image sensor technologies The C12666MA is an ultra

Spectrometers

Compact, versatile spectrometers covering UV, Visible and NIR wavelengths are available for lab, field and process solutions.

Headspace solid-phase microextraction: Fundamentals and recent

Headspace solid-phase microextraction coupled to gas chromatography-mass spectrometry with selected ion monitoring for the determination of four food flavoring compounds and

Hamamatsu Mini Spectrometers - Stantron

-Mini spectrometer heads which are compact and low cost for installation into measuring equipment: C11010MA for visible to near IR (640 to

New Finger-Tip UV Spectrometer Head One Fifth the

Hamamatsu launched its new portable water analysis micro spectrometer head that is the smallest in the UV market, just over one fifth the

DETERMINATION OF 1,4-DIOXANE IN COSMETIC PRODUCTS BY

DETERMINATION OF 1,4-DIOXANE IN COSMETIC PRODUCTS BY GAS 0 23/11/2023 ACM 011 CHROMATOGRAPHY MASS SPECTROMETRY HEAD SPACE SAMPLER (GC-MS/HSS) SCOPE

C12880MA HAMAMATSU, Spectrometer, 340 to

C12880MA is a micro series mini-spectrometer. It supports the long wavelength region (up to 850nm). This product is suitable for integration into a variety of

Mini-Spectrometer – Shop at Hamamatsu

Add to cart Mini-spectrometer head C15036 Mini-spectrometer evaluation kit head Mini-spectrometer head C15036 \$499.40

C12666MA HAMAMATSU, Image Sensor, 12.5µm x 1000µm, Module

It is a fingertip size, ultra-compact spectrometer head integrating MEMS and image sensor technologies. The adoption of a newly designed optical system has achieved a remarkably small size, less than

Mini-spectrometer

Mini-spectrometer Micro series C12880MA Finger-tip sized, ultra-compact spectrometer head supporting high sensitivity and long wavelength region The C12880MA is a high-sensitivity, ultra-compact (fi

Mini-spectrometer micro series C12880MA

The C12880MA is a high-sensitivity, ultra-compact (finger-tip sized) spectrometer head that supports the long wavelength region (up to 850 nm). Hermetically

Spectrometers & Spectroscopy Equipment | Edmund

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

Finger-Nail Sized, Ultra Compact Mini-Spectrometer :

Hamamatsu C12666MA is an ultra-compact spectrometer head, based on the company's image sensor technologies.

Micro-spectrometer C12880MA – Shop at Hamamatsu

Mini-spectrometer micro series, finger-tip size, ultra-compact spectrometer head supporting high sensitivity and long wavelength region The C12880MA is a high

Spectrometers – Shop at Hamamatsu

Mini-spectrometer micro series, finger-tip size, ultra-compact spectrometer head supporting high sensitivity...

Selection guide / Mini-spectrometers

Optical system in the compact spectrometer heads The miniaturization of the spectrometer head has been achieved by employing a CMOS image sensor with a slit formed by etching and a grating

Distance Sensor Head

PSS-H-A03 distance reflection sensor heads for measurements over large distances. Ideal for analyzing goods! More on probes for NIR spectrometers!

hamamatsu Mini-spectrometer C12880MA

BeamQ Laser hamamatsu Mini-spectrometer C12880MA - hamamatsu Mini-spectrometer C12880MAFingertip sized, ultra-compact spectrometer head

Spectrometers

We offer a wide selection of spectrometers for various applications, wavelengths, and measurements. Use our spectrometer selector tool to find the perfect spectrometer for your needs.

Mini-spectrometer C12880MA

The C12880MA is a high-sensitivity, ultra-compact (fingertip sized) spectrometer head that supports the long wavelength region (up to 850 nm). Hermetically sealed packaging provides improved humidity

Contact Us

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