

Small Spectrometer



Summary of Content

Small spectrometers are compact, portable instruments designed for laboratory, field, or educational use, capable of measuring light or spectral properties with high precision.

Types of Small Spectrometers

1. **Handheld and Portable Spectrophotometers:** These devices are lightweight and allow measurements directly at the sample site. They are commonly used for color analysis, quality control, and material verification in industries such as printing, textiles, and coatings. Some models, like X-Rite's Ci6X and eXact series, offer sphere or multi-angle measurement for accurate color capture on reflective or textured surfaces .
2. **Microvolume or Small Volume Spectrophotometers:** Designed for very low sample volumes (0.5–5 μL), these instruments are ideal for DNA, RNA, and protein quantification. They often feature microplate compatibility, pre-programmed methods, and on-board software for rapid analysis while conserving precious samples . Examples include DeNovix DS-11 and Agilent Cary 60 UV-Vis spectrophotometers .
3. **Miniature or USB Spectrometers:** Compact, fiber-coupled spectrometers like Hamamatsu MiniSpec or IS-Instruments MSP1000 are suitable for laboratory tasks, light characterization, reflectance measurements, and fluid absorption studies. They often include CCD detectors, Ethernet or WiFi connectivity, and software for spectral acquisition and analysis .

Article Content

Radiacode: Pocket Radiation Detectors & Spectrometers

Pocket-sized radiation detector and spectrometer for scientific exploration, discovery, and monitoring — designed for curious minds

Amazon : Spectrometer Handheld

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Fiber Optic UV-VIS, NIR & Raman Spectrometers

Explore StellarNet miniature fiber optic spectrometers for UV-VIS, NIR, Raman, fluorescence, radiometry, process

Portable & Handheld Spectrophotometers | Learn More

Lightweight and portable, handheld spectrophotometers offer the convenience of bringing the device to the

What is Mini-spectrometer? | Mini-spectrometers

Mini-spectrometers are small spectrometers (polychromators) with an integrated optical system, image sensor, and

Compact Spectrometers

With dimensions of 112.0 mm x 93.8 mm x 41.5 mm that measure roughly the size of a portable hard drive, the performance of these

Mini-Spectrometer – Shop at Hamamatsu

Mini-spectrometer TF series, Compact and thin, built-in high-sensitivity CMOS image sensor...

AvaSpec-Mini-NIR – Avantes

The AvaSpec-Mini-NIR is a compact near-infrared spectrometer based on a combination of our popular AvaSpec-NIR256-1.7-EVO

CompactLine | Anglia Instruments | Spectrometers & Fibre Optics

CompactLine Spectrometers Miniature spectroscopy redefined - that's what we consider the CompactLine series spectrometers to

ILT560 Miniature Spectrometer / Spectroradiometer

SpectrILight™ III is a LabView™ based software package for Windows that allows you to acquire spectral and color data. Analysis of

Small Volume Spectrophotometers

Small Volume Spectrophotometers Spectrophotometers are instruments used for measuring radiant or light energy, traditionally with

Mini Spectrometers

HAMAMATSU mini-spectrometers are polychromators integrated with optical elements, an image sensor and a circuit. Light to be

Hamamatsu C16767MA Mini-spectrometer | GroupGets

The C16767MA is a mini-spectrometer with a UV-optimized CMOS sensor and grating, using etched slits and nanoimprint

Tiny spectrometers

Optical spectrometers are essential equipment used in industry and research laboratories to characterize and identify

Spectrometers

Spectrometers Unlock precise, real-time insights with compact Ocean Optics spectrometers covering UV-Vis, NIR, Raman and more.

Compact Spectrometer Products | Pembroke Instruments

Compact spectrometer from Pembroke Instruments offer flexibility and high performance at an affordable price.

Miniature Spectrometer

The MSP1000 miniature spectrometer (MiniSpec) is a compact, fibre-coupled spectrometer suitable for common laboratory tasks. By

Selection guide / Mini-spectrometers

What are mini-spectrometers? Mini-spectrometers are small spectrometers (polychromators) with an integrated optical system,

Amazon Best Sellers: Best Lab Spectrometers

Discover the best Lab Spectrometers in Best Sellers. Find the top 100 most popular items in Amazon Industrial & Scientific Best Sellers.

Mini-spectrometer micro series C12666MA | Hamamatsu Photonics

The C12666MA is an ultra-compact (Finger-tip size) spectrometer head developed based on our MEMS and image sensor

Amazon : Handheld Spectrometer

Shop handheld spectroscopes and spectrometers for gemstone identification, color matching, and scientific light analysis. Multiple

What is Mini-spectrometer? | Mini-spectrometers

What is Mini-spectrometer? Mini-spectrometers are small spectrometers (polychromators) with an integrated optical

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Price and other details may vary based on product size and color. Online shopping for Spectrometers - Spectrometry from a great

Portable handheld spectrometers

The SciAps ReveNIR handheld NIR spectrometer brings the power of near-infrared spectroscopy to your fingertips. This compact

USB Spectrometer | Low Price Optical Spectroscopy

The clever design of the Ossila USB Spectrometer combines optical elements and internal electronics into

Ultra-small spectrometer yields the power of a 1,000 times bigger ...

Researchers are designing new ways to make spectrometers that are ultra-small but still very powerful, to be used for

Portable handheld spectrometers

Portable XRF analyzers The small and powerful Epsilon 1 benchtop, portable XRF analyzer delivers quality results, while being fully

This spectrometer is smaller than a pixel, and it sees what we can't

Researchers have successfully demonstrated a spectrometer that is orders of magnitude smaller than current

Miniaturization of optical spectrometers | Science

Optical spectrometry is one of the most powerful and widely used characterization tools in

Small Wonder: Mini Spectrometer Packs the Power of ...

The researchers demonstrate a novel, extremely high-performance spectrometer that can measure light with a 0.05

Amazon : Spectrometers

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

Website: <https://benniedesignstudio.co.za>

Email: sales@benniedesignstudio.co.za

Phone: +27 82 391 4765

Address: The Towers, 1 St Georges Mall, Cape Town, 8001, South Africa

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