

Lightweight and Portable Spectrometer



Overview

Explore a wide range of handheld spectrometers for light measurement and analysis. Find portable spectrum analyzers for research, LED testing, and more. Why choose a portable or handheld spectrometer?

Key reasons to choose a portable: The field-portable ASD range are trusted, field-portable devices. When you need to measure light quality, match colors, or identify materials in the field, you'll find five portable spectrometers that scientists rely on daily. Each device serves different purposes: some measure LED color temperature and brightness, others match paint shades, and a few handle. Finding the right portable spectrometer used to mean spending thousands on benchtop lab equipment that never left the workbench. The market has evolved significantly, with options ranging from basic spectroscopes under \$50 to professional handheld analyzers exceeding \$2,000.



Article Content

5 Best Portable Spectrometers Scientists Actually Use

You've now reviewed five portable spectrometer types suited for different tasks. To select the right one, identify your primary need: LED light

Portable Handheld Spectrophotometers

Portable spectrophotometers/colorimeters from HunterLab allow you to measure on the go—including samples on plant production floors, in storage areas, shipping departments, or virtually anywhere

Portable and Wearable Spectrometers in Our Future

As spectrometers progress from bulky lab instruments to compact, portable, and even wearable devices, the future of spectroscopy is transforming

Handheld Portable Spectrometers – Gamma Scientific

The MK350N is a lightweight, portable, and easy-to-use spectral illuminance (LUX) meter or spectral light meter. It is designed for fast, accurate illuminance

Buyer's Guide: Portable Spectrometers | Labcompare

Specifications like spectral range, resolution and limits of detection are common sense considerations for any spectrometer purchase, and this

Amazon : Spectrometer Handheld

Explore a wide range of handheld spectrometers for light measurement and analysis. Find portable spectrum analyzers for research, LED testing, and more.

UV-VIS, NIR & Raman Spectrometers | Portable Fiber

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

Buyer's Guide: Portable Spectrometers | Labcompare

Buyer's Guide: Portable Spectrometers Portable and handheld spectrometers bring detection and identification capabilities off of the bench and

Review and prospect on portable mass spectrometer for recent ...

With the rapid growth of science and technology, portable mass spectrometers have become an essential part of analytical instruments for research. In

Portable Raman Spectrometer | Labcompare

A portable Raman spectrometer is a handheld tool used to identify or verify the components of a sample. Pharmaceutical labs use portable Raman

NIRvascan™ Handheld NIR Spectrometer | Portable

NIRvascan™ handheld NIR spectrometer (900–2400nm). Portable, affordable, with built-in light source. Analyze protein, sugar, drugs, and moisture anywhere with

Portable handheld spectrometers

Malvern Panalytical offers a range of portable spectrometers and a portable XRF analyzer alternative to a XRF handheld or XRF gun.

Portable & Handheld Spectrophotometers | Learn More

Lightweight and portable, handheld spectrophotometers offer the convenience of bringing the device to the sample. A portable spectrophotometer is a valuable

Handheld Raman Spectrometers, Portable Raman | Agilent

What is Handheld Raman Spectroscopy? Handheld Raman spectrometers combine the long-established principles of Raman spectroscopy with miniaturized components, enabling users to take and use

Handheld Portable Spectrometers – Gamma Scientific

Handheld Portable Spectrometers Precision and Portability in a Compact Package
These spectral light meters are designed for accurate and fast light

Optical fiber-based open source low cost portable spectrometer system

This article explores the development of a small, compact fiber-based spectrometer system designed to overcome the limitations of standard spectrometers, such as the high cost and

AURA® handheld NIR | Versatile & portable spectrometer

AURA® handheld NIR is a portable spectrometer system, which enables measurements to be taken directly on site, suitable for a variety of

12 Best Portable Spectrometers (July 2026) Top Picks

The table below provides a quick comparison of all 12 portable spectrometers covered in this guide, including key specifications like wavelength

Portable Spectrometer / Handheld Spectrometer

Find, compare, and request a quote for portable spectrometers across leading suppliers at Labcompare; including access to product citations, related published figures, and first-hand reviews from our

LIMING portable spectrometers

Discover the portable spectrometer product range of LIMING. Contact the manufacturer directly.

12 Best Portable Spectrometers (June 2026) Professional Reviews

In this guide to the best portable spectrometers of 2026, we break down each device by who it serves best, what it measures, and where it falls short.

Contact Us

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