

Professional Spectrometer



AI Overview

Professional spectrometers are advanced instruments designed for precise spectral and elemental analysis across laboratory, industrial, and research applications.

Types and Applications

Stationary Spectrometers: These are high-precision instruments used in laboratories and industry for detailed analysis. Examples include the Belec IN-SPECT metal analyzer for accurate spectral analysis and ICP 2060T Inductively Coupled Plasma Emission Spectrometer for determining major, minor, and trace elements in petrochemical products. They are ideal for applications requiring high accuracy, repeatability, and compliance with standards.

Portable Spectrometers: Handheld devices like the Nix Spectro 2 provide benchtop-level accuracy in a compact form, suitable for color quality control in print, packaging, and graphic arts. Portable spectrometers often feature multiple UV-visible channels, robust construction, and long battery life, making them practical for fieldwork.

Color Measurement Spectrophotometers: Devices such as the UltraScan PRO and Nanotech professional spectrophotometers are designed for precise color analysis in reflection and transmission, measuring solids, liquids, powders, and coatings. They comply with international standards (CIE, ASTM, ISO) and offer high optical resolution, multiple apertures, dual lamps, and advanced calibration for consistent results.

Elemental Analysis Spectrometers: Instruments like SPECTRO's ICP-OES, ICP-MS, Arc/Spark OES, and XRF spectrometers are used for precise elemental analysis in metals, chemicals, environmental samples, pharmaceuticals, and food. These spectrometers provide reliable, efficient, and accurate measurements for research, industrial quality control, and regulatory compliance.

Key Features

Wavelength Range: Professional spectrometers cover broad ranges, e.g., UV-Vis-NIR (185-1100 nm) for optical analysis.

High Accuracy and Repeatability: Many devices achieve dE

Article Content

Color Meter For Measuring Reflected Color | UltraScan Pro

Use UltraScan PRO for both research and quality control. From opaque solids to clear liquids to transparent films, UltraScan PRO precisely measures both

SPECTRO 1: Professional-Grade Color Measurement

A compact, affordable tool for accurately measuring and communicating color at the professional and industrial level.

Spectrometers | PASCO

A spectrometer is a device that allows scientists to dissect light into its constituent colors, akin to separating the vibrant hues of a rainbow. By precisely dispersing the light, spectrometers provide a

10 Best Spectrophotometers (July 2026) Expert Reviews

In this guide, I'll review the top spectrophotometers available in 2026, covering everything from budget-friendly educational models to professional instruments used in print,

Spectrometer Training Courses | SPECTRO Analytical

Our SPECTROmeter training courses provide the necessary knowledge for all products, with effective and proven training seminars.

i1 Pro 3 Family | i1 Color Calibration Solutions

Looking for accurate measurements and consistent calibration and profiling? Learn about the i1Pro 3 Family, the industry standard for more than two decades.

Spectro 1 Mobile Spectrophotometer Paint Color

The Spectro 1 Mobile Spectrophotometer is a professional-grade paint color matching tool designed for precision and versatility. Acting as a

Amazon : Spectrometry

Sekonic C-4000 Spectrometer, Professional Light Meter with Bluetooth, 1600K-40000K Range, Smartphone App Compatible, USB-C Connection Add to cart
myspectral

Rapid prototyping of custom spectrometers Building spectrometers is our passion. Ever since we have created the first open source spectrometer in

Laboratory Spectrometers & Spectrophotometers - MSE Supplies

Spectroscopy and Analytical Instrumentation Our range of spectroscopy and analytical instrumentation is crafted to meet the precise needs of PhD researchers and professionals in materials science,

Professional spectrometer

Find your professional spectrometer easily amongst the 15 products from the leading brands (Skyscan, Belec, Hiden Analytical, ...) on DirectIndustry, the industry

Best Lab Spectrophotometers of 2026

What Is A Spectrophotometer Used For in A Lab?What Type of Spectrophotometer Is Used in The Laboratory?What Do Students Use A Spectrophotometer For in This Lab?What Are The Four Types of spectrophotometry?What Are 3 Uses of Spectrophotometer?What Experiments Would A Spectrophotometer Be Useful?What Can A Spectrophotometer Be Used to Check All That Apply?What Are The 3 Basic Types of Spectroscopy?The most commonly used spectrophotometer in the laboratory is the UV-Vis spectrophotometer. This type of spectrophotometer is specific to the ultraviolet and visible sections of the electromagnetic spectrum. It is suitable for analyzing colored samples that absorb visible and UV light. See more on findthisbest 9,9/10Author: Brian HowieBrand: M& A INSTRUMENTS INCPublished: Aug 3, 2021Edmund Optics

Spectrometers & Spectroscopy Equipment | Edmund

Whether you're building a custom solution or seeking a turnkey system, our spectrometers support UV-VIS spectroscopy, NIR spectroscopy, fluorescence,

UPRTEK Europe ® | Portable Spectrometers, Radio

UPRtek Europe offers innovative light meters and flicker frequency meters, serving professionals in research, lighting design, horticulture, & more.

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.

Spectrometers

With our spectrometers, data can be collected and analyzed using our LabQuest 2, LabQuest 3, or free Vernier Spectral Analysis ® software, which allows users to

Spectro 1 Pro Spectrophotometer Paint Color Matching

Whether used as a spectrometer, colorimeter, or portable color sensor, this paint scanner provides precise paint color matching across multiple

Nicolet Summit FTIR Spectrometers

The Nicolet Summit FTIR Spectrometers help you identify and quantify materials faster than ever before. Learn about this compact FTIR spectrometer today.

Analytical instruments and equipment | Metrohm

Explore Metrohm's comprehensive range of analytical instruments, laboratory equipment, and process analyzers. Our cutting-edge solutions include a variety

Nix Spectro L Spectrophotometer and Densitometer

Nix Spectro L Spectrophotometer and Densitometer- Professional Color Matching Technology, Compatibility with 200,000+ Paints, Spectral Data and Delta-E

Best Lab Spectrophotometers of 2026

What are the best lab spectrophotometers products in 2026? We analyzed 1,600 lab spectrophotometers reviews to do the research for you.

Portable & Handheld Spectrophotometers | Learn More

Portable & Handheld Spectrophotometers Lightweight and portable, handheld spectrophotometers offer the convenience of bringing the device to the sample.

Professional spectrophotometer

High-precision color analysis, professional color measurement and advanced color management for research and quality management. This professional spectrophotometer is manufactured to

Spectrophotometry

Get high precision and functionality in a simple yet sophisticated visible spectrophotometer. The Thermo Scientific™ GENESYS™ 30 Visible

Spectrometers Systems | High quality process control

Spectrometer systems for large area coatings, food & agricultural industry. Ensuring quality, securing process control and providing greater efficiency.

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