Spectrometer Prices and Models



Overview

10 Best Spectrophotometers (July 2026) Expert ReviewsFinding the right spectrophotometer for your lab or business can be overwhelming with so many options.

Key Takeaways

Spectrometer prices range from a few thousand dollars for basic UV-Vis models to over $50,000 for high-end fluorescence or automated systems, with multiple models tailored for specific laboratory and industrial applications.

Popular Spectrometer Models and Their Features

Shimadzu UV-1900i Plus: Best overall for regulated environments, offering ultra-fast scanning, double-beam optics, and automated compliance features. Ideal for pharmaceutical and chemical quality control. Price: $15,000–$20,000 USD.

De

Novix DS-7: Budget-friendly microvolume spectrometer for nucleic acid and protein quantification. Maintenance-free with contamination alerts. Price: $8,900–$10,800 USD.

Agilent Cary 3500 Multicell: High-speed, eight-channel scanning for kinetic studies. Zero moving parts for instant data collection. Price: typically $20,000–$30,000 USD depending on configuration.

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Thermo Scientific Nano

Drop Eight: High-throughput microvolume analysis, capable of analyzing eight samples in under 20 seconds with built-in contaminant detection. Price: $15,000–$25,000 USD.

Thermo Scientific GENESY

S 50: Single-beam, rugged design for routine QA/QC and educational labs. Supports fixed wavelength, scanning, and kinetics. Price: $10,000–$15,000 USD.

Spectrometer Types and ApplicationsUV-Vis Spectrometers: Measure absorbance in ultraviolet and visible light; widely used for DNA, RNA, and protein quantification, as well as environmental and food testing. Generally more affordable than fluorescence or NIR models. Fluorescence Spectrometers: Detect low-concentration biomolecules with high sensitivity.

Prices are higher due to specialized optics and detectors, often exceeding $30,000 USD.

Near-

Infrared (NIR) Spectrometers: Used for pharmaceutical, material characterization, and non-destructive analysis. Often require custom calibration; prices vary widely from $20,000 to $50,000 USD. Raman Spectrometers: Provide molecular fingerprinting for chemical and material analysis.

Prices typically range from $25,000 to $60,000 USD depending on laser and detector specifications.

Purchasing Options

Spectrometers can be purchased from specialized suppliers such as Edmund Optics, LabX, Bimedis, or online marketplaces like Amazon, offering both new and used models. Accessories such as fiber optics, filters, and calibration standards are often available for custom setups.

Key Considerations

When selecting a spectrometer, consider: Sample type and volume (microvolume vs. standard cuvettes)Throughput requirements (single sample vs. high-throughput)Regulatory compliance (Pharma/QC vs. educational use)Budget constraints and long-term maintenance costs By evaluating these factors, labs can choose a spectrometer that balances performance, application needs, and cost-effectiveness.

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Article Content

10 Best Spectrophotometers (July 2026) Expert Reviews

Finding the right spectrophotometer for your lab or business can be overwhelming with so many options on the market. After testing and comparing numerous models across different price

Spectrophotometer | Labcompare

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

Spectrophotometer Pricing Guide: What to Expect

Wondering how much a spectrophotometer costs? Explore pricing ranges, key features, and what to expect when budgeting for your lab.

Amazon : Spectrometers

Online shopping for Spectrometers - Spectrometry from a great selection at Industrial & Scientific Store.

XRF Spectrometer New & Used Prices

High-end models with advanced features like automated sample handling and enhanced resolution fall within the upper price range. Used XRF spectrophotometers offer a more cost-effective option, with

The Best NMR Spectrometers of 2026: A Buyer''s Guide

Discover the top-rated NMR spectrometers of 2026 for research and industry. Compare high-field and benchtop models to find the right fit for your lab.

Spectrometers & Spectroscopy Equipment | Edmund

Explore optical spectrometers, systems, and components for spectroscopy, detection, and analysis. Ideal for UV-VIS, NIR, Raman, and fluorescence

The Best Infrared and FTIR Spectroscopy Systems of

Discover the top-rated infrared and FTIR spectroscopy systems of 2026. Compare the best models for speed, field analysis, and versatile lab

The Best Spectrophotometers: A Buyer''s Review of

Discover the top spectrophotometers of 2026 for research and industry. Compare updated models from Shimadzu, DeNovix, and Agilent for

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How Much Does an XRF Spectrometer Cost?

Ever wondered how much an XRF spectrometer really costs? The answer isn''t so simple, it depends on a variety of factors. In this article, I will walk

New & Used Spectrometers for sale. Thermo Fisher

Atomic Absorption Spectrometers (AAS), Circular Dichroism (CD) Spectrometers, and Thermo Fisher Scientific spectrometers for sale. Find used spectrometers on

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Prices for new NIR spectrometers generally range from $15,000 to $100,000, depending on the model, features, and capabilities of the equipment. High-end

Portable & Handheld Spectrophotometers | Learn More | X-Rite

X-Rite''s high precision portable handheld spectrophotometers offer consistent and accurate color measurement on a variety of unique samples. Learn more.

Spectro Spectrometer

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FTIR Spectrometers | SHIMADZU

FTIR spectrometers are used to identify organic, polymeric and inorganic materials, though it is used for the latter more infrequently. FTIR spectrometers work by measuring how a sample absorbs infrared

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

Spectrophotometry

Get high precision and functionality in a simple yet sophisticated visible spectrophotometer. The Thermo Scientific™ GENESYS™ 30 Visible Spectrophotometer performs both basic and complex analyses

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