

Price List of Mobile Spectrometers



Overview

Mobile Spectrometer Price: Find Best Deals Selecting a mobile spectrometer requires balancing technical needs with budget constraints. The price is a function of the instrument's capabilities and the quality of its components.

Key Takeaways

Handheld and portable spectrometers range from under \$1,000 for basic models to over \$100,000 for advanced, high-precision instruments. Price Ranges Budget-friendly handheld spectrometers: Some entry-level models, such as the NH300 and OHSP350C, are priced under \$1,000, suitable for startups, small labs, or basic field testing. Mid-range portable spectrometers: Devices with broader capabilities, including XRF, Raman, or multi-angle color measurement, typically cost \$5,000–\$50,000, depending on spectral range, accuracy, and software integration.

High-end professional models: Advanced instruments like the Bruker S1 TITAN or DW-EX5000, designed for precise elemental or molecular analysis, can exceed \$100,000, offering high accuracy, compliance with ISO 17025 standards, and integration with lab management systems.

Factors Affecting Price

Technology type: XRF, Raman, LIBS, and spectrophotometers vary in cost due to complexity and detection capabilities. Accuracy and spectral range: Higher precision and wider spectral coverage increase the price. Software and connectivity: Devices with mobile app integration, cloud analytics, or automated calibration features are more expensive.

Compliance and certifications: ISO, CE, FCC, and RoHS certifications can add to the cost, especially for industrial or regulatory applications. New vs. used: Used or refurbished spectrometers can reduce costs significantly, sometimes by 50% or more, but may require careful evaluation of calibration and maintenance history.

Additional Considerations

Total cost of ownership: Include calibration, software updates, repairs, and potential bulk discounts for multiple units. Application-specific needs: Prices vary depending on whether the device is for color measurement, chemical analysis, narcotics detection, or environmental monitoring. Portability and durability: Lightweight, field-ready devices may cost more per unit but save operational time and increase flexibility.

In summary, mobile spectrometer prices vary widely, from under \$1,000 for basic handheld models to over \$100,000 for high-end, multi-modal instruments, with the final cost influenced by technology, precision, software, and compliance requirements.

Article Content

Mobile Spectrometer Price: Find Best Deals

Selecting a mobile spectrometer requires balancing technical needs with budget constraints. The price is a function of its capabilities, build quality, and intended use case.

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