

Purchase of High-Precision Spectrometer



Article Overview

High-precision spectrometers are available for industrial, laboratory, and portable applications, with options ranging from FT-NIR and Raman systems to handheld color measurement devices.

Types and Applications

High-precision spectrometers vary by technology and application:

- **FT-NIR Spectrometers:** Robust and suitable for industrial use, capable of fast measurements and wide spectral range for compound identification and quantification, including air monitoring and remote measurement campaigns .
- **Raman Spectrometers:** High-throughput, low-noise systems with fiber-optic probes and CCD detectors, ideal for chemical analysis and quality control in research and industrial settings .
- **Portable/Handheld Spectrophotometers:** Devices like X-Rite's eXact series provide high-precision color measurement for printing, paint, and industrial materials, offering multi-angle and sphere geometries for consistent results .
- **Infrared Spectrometers:** Infrared and IR spectrophotometers detect molecular structures via light absorption, supporting pharmaceuticals, forensics, and environmental testing .

Key Features to Consider

When selecting a high-precision spectrometer, consider:

- **Spectral Range:** Ensure the device covers the wavelengths relevant to your application (e.g., 200–1,050 nm for optical systems).

Article Content

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