Price of a spectrometer for physics experiments

Overview

A simple state-of-the-art spectrometer for student labs: Cost-efficient. In conclusion, we present and characterize a cost-effective Czerny–Turner optica.

Key Takeaways

Laboratory spectrometers for physics labs in India range from approximately ₹1,000 to ₹7,000 for basic models, with higher-end digital or benchtop units costing more.

Price Range and Suppliers

Budget Options: Simplex Engineers offers laboratory spectrometers starting at ₹1,000, while Crown Lab Supplies and P. K. Scientific Works provide models starting at ₹3,200–₹3,300.

These are suitable for basic physics experiments and educational purposes (IndiaMART).

Mid-

Range Options: TradeIndia lists an SS Laboratory Spectrometer priced at ₹7,000, which includes multiple payment options and delivery support, ideal for more precise lab work. Online Retailers: Platforms like Amazon India and Flipkart also sell spectrophotometers and laboratory spectrometers, with prices varying depending on brand, features, and digital capabilities. Some models may offer EMI options and free shipping.

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Considerations for Purchase

Type of Spectrometer: Table-top or benchtop spectrometers are common in physics labs. Digital models may offer higher accuracy and data logging features but come at a higher cost. Supplier Support: Buying from verified suppliers ensures warranty, technical support, and bulk order options.

IndiaMART and TradeIndia list multiple verified sellers with contact details for direct inquiries. Budget vs. Features: For educational labs, basic models under ₹5,000 are often sufficient.

For research or advanced experiments, investing in higher-end models may be necessary.

Summary

For a physics lab in India, entry-level spectrometers start around ₹1,000, mid-range models are around ₹3,000–₹7,000, and advanced digital or benchtop spectrometers can cost significantly more. Buyers can compare prices and features on IndiaMART, TradeIndia, Amazon, and Flipkart to select the most suitable option for their lab needs.

Article Content

A simple state-of-the-art spectrometer for student labs: Cost-efficient ...

In conclusion, we present and characterize a cost-effective Czerny–Turner optical spectrometer for physics student lab experiments. The setup is assembled from standard optical and

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