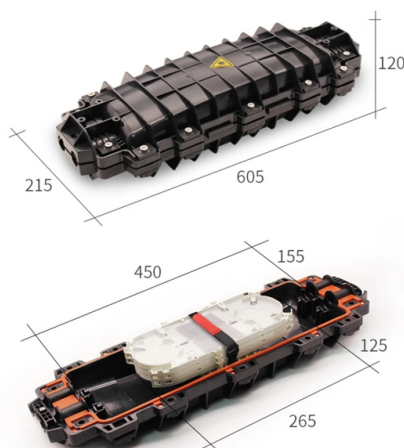


How much does a spectrophotometer cost



AI Overview

Spectrophotometers typically range from \$1,000 for used basic models to over \$60,000 for high-end, advanced systems. The cost of a spectrophotometer varies widely depending on the type, features, and brand. Basic benchtop UV-Vis models generally start at around \$3,000 to \$5,000 for new units, while high-end fluorescence or extended-range UV-Vis spectrophotometers can exceed \$50,000 to \$60,000 due to advanced optics, automation, and sensitivity capabilities. Used spectrophotometers offer a more cost-effective option, with prices typically ranging from \$1,000 to \$30,000, depending on condition and specifications.

Factors Affecting Price

- Type of spectrophotometer:** UV-Vis models are generally more affordable, while fluorescence, near-infrared (NIR), and microplate readers are more expensive due to specialized detectors and optics.
- Wavelength range and sensitivity:** Instruments with broader wavelength coverage or higher sensitivity cost more.
- Automation and software:** Advanced features like automated sample handling, IoT integration, and enhanced data management increase the price.
- Brand and customization:** Well-known brands and custom configurations for specific applications can significantly raise costs.

Market Trends

The global spectrophotometer market is growing steadily, driven by demand in pharmaceuticals, biotechnology, environmental testing, and food safety. Technological advancements, miniaturization, and portable models are creating new price segments, while regional manufacturing differences can influence affordability.

In summary, when budgeting for a spectrophotometer, expect to pay a few thousand dollars for basic models, \$10,000–\$30,000 for mid-range systems, and \$50,000 or more for high-end, specialized instruments. Considering your lab's needs, desired features, and whether a new or used unit is acceptable will help determine...

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