

Spectrometer without heating

Prepare to explore the top 14 USB pocket spectrometers of 2025, offering portable solutions for precise analysis--discover which one fits your needs best.

I've always wanted to create a spectrometer that is so small it can fit into one's pocket and just barely larger than a cuvette itself. Working with bulky commercial spectrometers in labs, I was wondering ...

Lightweight and portable, handheld spectrophotometers offer the convenience of bringing the device to the sample. A portable spectrophotometer is a valuable tool for capturing color data on a variety of ...

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Promising steps have been made towards the miniaturization of optical spectrometers, where mathematical algorithms for spectrum reconstruction are combined with semiconducting ...

That's how the state of the art keeps moving. This DIY spectrometer project is a fantastic example of that ethos.

With this low-cost spectrometer, you can perform various simple and interesting experiments right from your house. Hope you enjoyed this Instructable and it has inspired you to build your own DIY Low ...

When a scientist wants to measure spectral properties of a sample at temperatures far removed from room temperature, problems arise. This white paper discusses the issues that come with ...

That's why Technovation has posted their design for a low-cost spectrometer. Spectrometers are useful in a large number of experiments, and this clever project uses a webcam -- the only expensive ...

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