

Schematic diagram of a portable spectrometer



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In this article, we propose to revisit the development and assembly of a very low-cost (~10 Keuros), portable (benchtop) FT-NMR spectrometer by integrating magnetic and electronic classical ...



Abstract: in this article we describe the construction of a DIY Raman system, based on a 532 nm DPSS laser and a B& W Tek surplus spectrometer. A 90° configuration was chosen for the ...



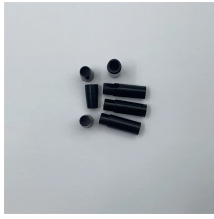
Customize this Schematic diagram of a typical Raman and FTIR spectrometer template with BioRender. Create professional, scientifically accurate visuals in minutes.



Figure 1 (a) Layout for circuit board for the photometer; and (b) trace for photo-etching the circuit board. The photometer consists of a light source (an LED), a light-dependent resistor (LDR) as ...



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In these pages, we offer you information to build a homemade spectrometer capable of emulating the ones you can find in technical laboratories (with, of course, a lower precision) that enable you to try ...



The conception and design of the portable Raman spectrometer is described, including discussion of performance and limitations of representative components of such device available on the market.



Whilst both the intense reflected/scattered light, fluorescence, and generated Raman photons are collected by the f/0.55 lens, the dichroic mirror and the long-pass filter ensure that only the latter two ...



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 ...



Figure 6 b depicts a Raman spectrometer that utilizes a cell phone CMOS camera to record the Raman spectra. The setup is based on the right-angle geometry, and hence no Rayleigh rejection filters...



View the TI TIDA-00554 reference design block diagram, schematic, bill of materials (BOM), description, features and design files and start designing.

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