Optics & Photonics

Indzawo Optic Connect

Nordic Miniature Spectrometer



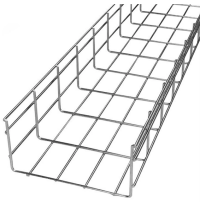


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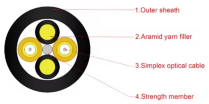
Nordic Miniature Spectrometer



By using additive manufacturing processes (3D printing) to build this spectrometer, we can provide the system at significant cost-saving over other similar instruments without compromising performance.



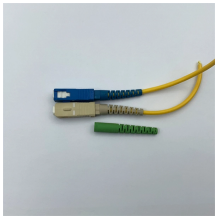
Thanks to its simple integration, the miniaturized, highly integrated, and cost-effective nanoSPECTRAL chip can be used in a wide range of applications. For example, it is ideal for food ...



Here, the authors present a miniature computational spectrometer based on silver nanoparticles in Fabry-Pérot microcavities for measuring visible spectra.



Recent advancements in nanophotonics and computational techniques have contributed to new spectrometer designs characterized by miniaturization and enhanced performance. This ...



This repository is the second version of the Pocket Spectrometer. The main improvement is the use of an AMS sensor from Adafruit that features a built-in grove-compatible port (known as Stemma QT) ...

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GD-MS – Glow Discharge Mass Spectrometry (GD-MS) is used by industrial companies in the field of high purity materials, precious metals, metallurgy and metrology. GD-MS is used in production ...



If an instrument can be made smaller, it will often also consume less power, enabling it to be portable and eventually hand-held. This allows the spectrometer to be taken to the sample, as opposed to the ...



Ultra compact miniature spectrometers and fiber-coupled mini spectrometers for portable applications in the 180 - 1700 nm range



Mini-spectrometers are small spectrometers (polychromators) with an integrated optical system, image sensor, and driver circuit. They are portable devices that make them possible to do real-time ...



Since the early 1990s, miniaturized optical spectrometers based on a wide variety of designs and working principles have been demonstrated, with a range of operational spectral bands ...

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