

Here, we propose a new solution called Time-delay Fourier transform spectrometer (TDFTS), which makes use of specially designed fiber arrays (a bundle of fibers with different ...

The fiber spectrometer, consisting of the fiber, which can be coiled to a small volume, and a monochrome camera that records the speckle pattern, is compact, light-weight, and low cost while ...

A compact and robust spectrometer where the small size and portability are combined with a great performance to offer the best flexibility to your spectroscopic setup. It features interchangeable slits, ...

This filament geometry provides lens-less focusing, defining a compact all-fiber spectrometer with a moderately high 0.3 nm resolution for light spanning fully across the visible ...

"An Introduction to a Spectrometer: Fiber Optic Probes" describes how fiber bundles can be combined with other various opto-mechanical components to create more specific applications.

Parallel spectroscopy in the visible spectral range is applied in various analytical tasks ranging from industrial inspection via digital farming to life sciences. To address parallel distributed sensing ...

Fiber-optic bundles are perfectly adapted to perform diffuse reflectance spectroscopic measurements. Fiber optic bundles usually consist of optical fibers ...

Here we describe a compact spectrometer that achieves both high spectral resolution and broad bandwidth.

The flexible point-by-point writing enables fiber tapping of light with engineered spectral and geometric focusing properties, permitting the design of new compact photonic devices based on the all- fiber ...

VS70-PDA OEM Photodiode Array Spectrometer is a high performance compact ...

The Large Fiber Array Spectroscopic Telescope, LFAST, will use optical fibers to combine light from thousands of small telescopes at centrally located high-resolution spectrometers.

Spectral Products computer-based miniature array spectrometers offer state-of-the-art performance yet have compact form factors. Their versatile design and ease ...

In this article, we develop a high-resolution single-pixel multimode fiber spectrometer and demonstrate its ability to reconstruct arbitrary spectra. The single-pixel detection is achieved by ...



Spectrometer Array Fiber

In this paper, we describe the conceptual designs for the fiber feed assemblies that carry light from the individual telescopes to a centralized location, and the high-resolution spectrometer that accepts this ...

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