

## ST Multimode Spectrometer



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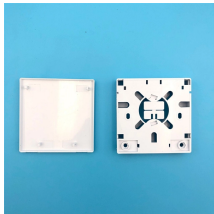
The advantage of using an optical fiber is that a long propagation length is easily achieved with minimal loss, giving high spectral resolution. Furthermore, the fiber-based spectrometer requires only a ...



A multi-mode fiber functions as a high-resolution, low-loss spectrometer. Wavelength-dependent speckle patterns are used for spectrum recovery. Record-high resolution and extremely broad range of ...



We propose and demonstrate that a conventional multimode fiber can function as a high resolution, low loss spectrometer. The proposed spectrometer consists only of the fiber and a camera that images ...



Multimode fiber (MMF) spectrometers suffer from the resolution-bandwidth trade-off due to the limited spatial speckle information used for spectral recovery. We demonstrate a design of an ...



A general-purpose all-fiber spectrometer is demonstrated to overcome the trade-off between spectral resolution and bandwidth. By integrating a wavelength division multiplexer with five multimode optical ...



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The invention is a monolithic, compact spectrometer based on multimode interference (MMI) and can simultaneously achieve high resolving power and bandwidth in a simple-to-couple and compact device.



We investigate the effect of the fiber geometry on the spectral resolution and bandwidth, and also discuss the additional limitation on the bandwidth imposed by speckle contrast reduction ...



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