Multimode fiber coherence

Here, using scanning wavefront folding interferometry, we characterize experimentally for the first time the spatial coherence of a step-index multimode fiber (MMF) coupled broadband light across the full ...

We relate classic coherence properties of light at the output of a multimode optical fiber excited by a spatially coherent broadband source to speckle contrast measured by two different methods.

We study experimentally the spatial coherence across the full spatial beam profile of supercontinuum light generated in both in graded-index and step-index multimode fibers.

Coherent Multi-Mode Fibers support laser system components, laser beam delivery, material processing, surgery, spectroscopy, LiDAR, metrology, and more.

In this work, we report on a systematic theoretical study of the temporal coherence characteristics of the spectral response of fiber optics MMI devices. The simulations were carried out ...

Because multi-mode fiber has a larger core size than single-mode fiber, it supports more than one propagation mode; hence, it is limited by modal dispersion, while single mode is not.

We relate classic coherence properties of light at the output of a multimode optical fiber excited by a spatially coherent broadband source to speckle contrast ...

Coherence gating through multimode fiber defines new opportunities for ultra-thin, minimally invasive endoscopy, particularly suitable for exploring delicate anatomical areas.

We experimentally characterize the spatial coherence of supercontinuum light generated in graded-index multimode fibers. Using a wavefront folding interferometer, we measure the spatial ...

We study experimentally the spatial coherence across the full spatial beam profile of supercontinuum light generated in both in graded-index and step ...

We characterize the spatial coherence across the full spatial beam profile in both graded-index and step-index multimode fibers and observe a decrease of the coherence area with an increase of the ...

We study the coherence characteristics of light propagating in nonlinear graded-index multimode fibers after attaining optical thermal equilibrium conditions. The role of optical temperature on the spatial ...

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