

UltraBroadband MIR Supercontinuum Sources

PRODUCT BRIEF

KEY FEATURES

- Span from 2-7.5+ μm (measurements currently detector limited)
- Total Output power >10mW (depends on selected pump laser)
- Very high beam quality and spatial coherence

POSSIBLE APPLICATIONS

- MIR sensing
- MIR microspectroscopy
- Test and measurement
- Directed Infrared countermeasures

CONTACT

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OVERVIEW

The CUDOS MIR supercontinuum source is based on the high performance MIR planar waveguide technology developed over the last 10 years at the Laser Physics Centre exploiting the outstanding long wavelength transparency of Chalcogenide glasses with their associated high optical nonlinearity. This has enabled supercontinuum generation starting from a Yb NIR laser to extend over the 2-7.5+ μm region with very high spectral brightness, in fact more than 100x that of even a synchrotron. The system will however ultimately be packaged into a form factor approaching that of a 19" rack mount box. Future versions of the device will extend the spectral coverage to beyond 10 μm .

