



MULTI-CHANNEL MICHELSON INTERFEROMETER

Innovative multi-channel interferometer process for analysing narrow spectra with very high spectral resolution

Technological benefits

A robust system

Static operation, no mirror displacement by translation or rotation

An efficient system

Spectrometry with very high spectral resolution: optical path difference up to 10 cm

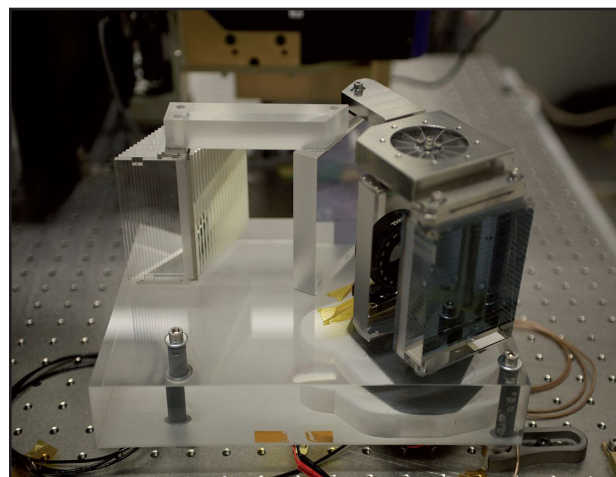
No scanning required: instantaneous interferogram

Invention overview

Multi-channel interferometer that supplies multiple emerging beam torques with different fixed and separate optical path differences from a single incident beam.

At least one of the two mirrors has numerous separate reflective surfaces.

The interferogram is acquired through a detector matrix.



Example of assembly

Commercial benefits

Optimised technology

Robust instrument, reduced maintenance requirements

Reliable and fast system

Potential applications

Remote sensing of atmospheric components

- space environment
- automated stations

Spectrometry by Fourier transform in laboratory

Patented invention, available under license