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.

**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*