

# FTIRZZ

*Fourier-transform MIR spectrometer for pulsed sources down to 1 kHz*

As an extension to our Mozza spectrometer, the FTIRzz is dedicated to the measurement of light sources from 1.6 to 12  $\mu\text{m}$ .

Whereas conventional FTIR spectrometers are limited to CW or pulsed sources at repetition rates above few tens of kHz, the FTIRzz is specially designed to measure all kinds of sources, down to 1 kHz.

Packed in a robust and compact housing, ready for air purge, the FTIRzz is an innovative Fourier-transform spectrometer with the unique ability to measure « low » repetition rate sources, and providing the fastest acquisition rate on the market.



## Applications

### Scientific:

- > Spectral characterization of:
  - > OPA and OPCPA
  - > Supercontinuum
  - > Femtosecond oscillators (Thulium, Chromium)

## Key Features

- > Detection range from 1.6 to 12  $\mu\text{m}$  with a single setup
- > Compatible with pulse repetition rates down to 1 kHz
- > Fastest acquisition rate

# Specifications

|                                                                    |                           |
|--------------------------------------------------------------------|---------------------------|
| Spectral range<br>( $\mu\text{m}$ )<br>( $\text{cm}^{-1}$ )        | 1.6 – 12<br>833 - 6250    |
| Spectral resolution ( $\text{cm}^{-1}$ )                           | Down to 2.5               |
| Laser repetition rate range                                        | 1 kHz to multi MHz and CW |
| Measurement time (s)<br>@ 1 kHz<br>@ 10 kHz<br>@ 100 kHz and above | 25<br>4<br>1              |
| Minimum pulse energy (nJ)                                          | 10                        |

## Dimensions

274 x 225 x 153 mm3

## Requirements

- > Any polarization
- > High level TTL trigger input
- > Input beam: Free space, 5 mm diameter
- > Pulse Energy: down to 10 nJ
- > PC: Windows 10, 1 USB3 port

