

Equipment name:

Jasco FT/IR-6600 ATR Spectrometer

**Location**

ICDI-SNA,

Advanced materials and applied technologies laboratory

Year 2020**Description**

The Jasco FT-IR 6600 spectrometer is equipped with a 1.3 mW He-Ne gas laser (632.8 nm). The ATR-PRO attachments are designed for total reflection method, which hardly requires processing before measurement. The area on the ATR prism in contact with the sample is small because the number of reflection is one. This improves contact of the prism with the sample and provides good spectrum. Also, it has an in-built heater and thermocouple in a prism kit that enables to heat samples while measurement is being made.

- Measurements made in the wavenumber range of 7800 to 350 cm^{-1} with a theoretical accuracy of $\pm 0.01 \text{ cm}^{-1}$ and a signal to noise ratio of 45000:1;
- Fast measurements can be acquired with the use of the ATR-PRO technique;
- It can acquire the spectrum at various temperatures due to its built-in heater;

Operating hours: 8-16

Information about the measurement, cost/services can be obtained from Prof. Dr. Lucian Baia, lucian.baia@ubbcluj.ro