

Equipment name:

Jasco V780 UV-VIS Spectrophotometer

**Location**

ICDI-SNA,

Advanced materials and applied technologies laboratory

Year 2020

Description

The Jasco V780 UV-Vis Spectrophotometer is equipped with a single monochromator and a double beam type (a deuterium lamp to measure in 190-350 nm region and a halogen lamp for measurements made in 330-1600 nm region). The equipment is accessorized with a ϕ 60 mm integrating sphere used to measure the transmittance (diffuse transmittance) and reflectance (diffuse reflectance) of a sample that diffuses light. The integrating sphere acquires most of the diffusely transmitted or reflected light and introduces it to the detector, permitting accurate measurement in the range of 200 to 1600 nm.

- Accurate measurements made in the range of 190 to 1600 nm with an accuracy of ± 0.3 nm (at a spectral band width of 0.5 nm, UV-VIS region)
- Measuring the UV-Vis spectra of solids using an ϕ 60 mm integrating sphere

Operating hours: 8-16

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