

UV-Vis spectrometer (Shimadzu UV-2600i) with integrating sphere



A UV-Vis spectrometer (ultraviolet–visible spectrometer) is an analytical instrument that measures how much ultraviolet and visible light a sample absorbs, transmits, or reflects as a function of wavelength, typically across ~190–1100 nm. The resultant spectrum can be used to identify compounds, quantify concentrations, or monitor reactions.

Our Shimadzu UV-2600i UV-Vis spectrometer is equipped with an integrating sphere accessory (ISR2600plus) which enables reflectance measurements (diffuse, specular, total) and also transmission measurements of non-optically clear liquids or films.

Overview:

- **Measurement types:** total light transmission (%T or abs), diffuse transmission (%T or abs), diffuse reflectance, specular reflectance (8° angle of incidence), total reflectance
- **Sample accessories:** liquid cell holder, film holder, powder holder, powder cell (with quartz window)
- **Scan range:** 220 to 1400 nm