

TECHNICAL SPECIFICATIONS FOR UV-VIS SPECTROPHOTOMETER

- Computer controlled UV-Vis Spectrophotometer system for advanced research work.
- A true Double beam, dual chopper ratio recording spectrometer with Czerny Turner monochromator for higher precision.
- Grating should be 1300 lines/mm or better.
- The Source should be D2 and Tungsten lamp.
- The detector should be a Photomultiplier tube with a range of 185-900 nm and InGaAS Pin Photodiode for NIR Region facility.
- UV-Vis Spectrometers with less sensitive silicon photodiode or CCD detectors are not acceptable.
- The measurable range should be 185-900 nm with add-ons available up to 1400 nm.
- The spectral Bandwidth should be a variable from 0.1 to 5.0 nm in 0.1 nm steps and should be fully software controlled for advanced research use.
- The Spectral Resolution should be less than or equal to 0.1nm or better.
- The Stray Light should be less than or equal to 0.002% or better.
- The Photometric Linear Range should be at least 5 Abs or better and the display range should be ± 10 Abs or better.
- Wavelength reproducibility of ± 0.05 nm (Peak separation) or better.
- Photometric Accuracy of at least ± 0.002 Abs or better.
- The accessories for the unit should be a pair of quartz cuvettes, Film Holder for films, filters, and thin samples for measurement with Minimum size: W16 \times H32 mm, Maximum size: W80 \times H40 \times T20 mm. A compatible PC should be included.