

**KARNATAK UNIVERSITY, DHARWAD
UNIVERSITY SCIENCE INSTRUMENTS CENTRE
INSTRUMENTS DETAILS**

1. Single Crystal X-Ray Diffractometer



2. X-Ray Detector

3. Nuclear Magnetic Resonance Spectrometer



4. FT-Raman/IR Spectrometer



5. UV-VIS Spectrometer



6. UV-VIS-NIR Spectrometer



- Double-beam with single monochromator
- PMT detector (UV-Vis)
- Peltier cooled PbS detector (NIR)
- Range 190 to 2,700 nm (3,200 nm option)
- Variable band pass down to 0.1 nm (UV-Vis)

7. Fluorescence Spectrometer



Model : F-7000 "Hitachi"

Technical Specifications:

Light source	:	150W Xenon lamp.
Monochromator	:	Large stigmat concave grating 900 lines/mm.
Wavelength scan speed	:	15, 60, 240, 1200 nm/min.
Bandpass	:	Excitation side 10, 20 nm. Emission side 10, 20 nm.
Photometric system	:	Monochromatic beam monitoring, ratio calculation.
Minimum Sample requirement cell	:	0.6 ml with standard 10 mm cell.
Measuring wavelength Range	:	220-800 nm.
Solid sample holder	:	Solid , powder & high concentrated sample.

8. Fluorescence Life-Time Spectrometer (TCSPC)



9. Atomic Absorption Spectrometer



10. Gas Chromatograph – Mass Spectrometer



11. CHNS Determinator



12. TGA/DTA/DSC Analyzer



13. Fluorescence Microscope



14. Upright Trinocular Fluorescence Microscope



15. Atomic Force Microscope



16. Liquid Nitrogen Plant

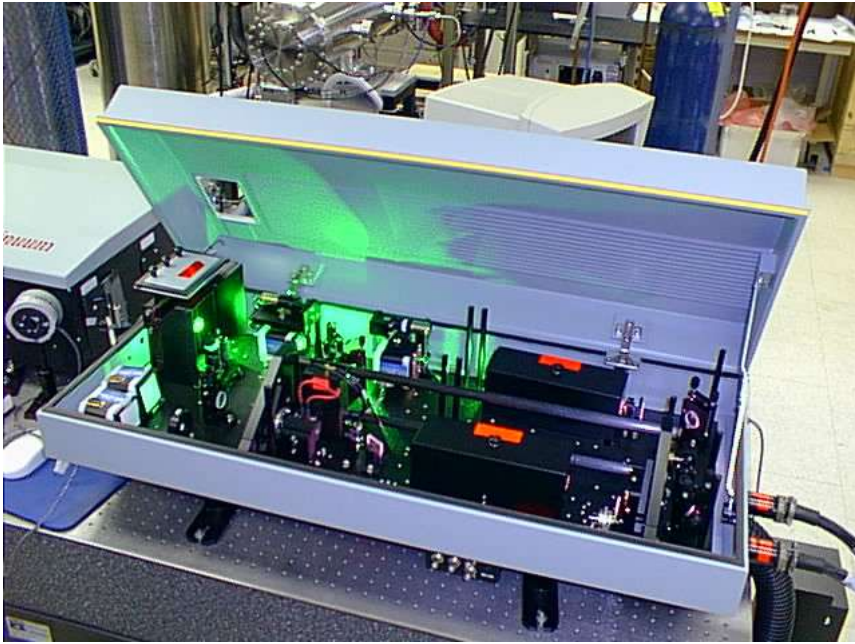


17. Milli-Q Water Purification System

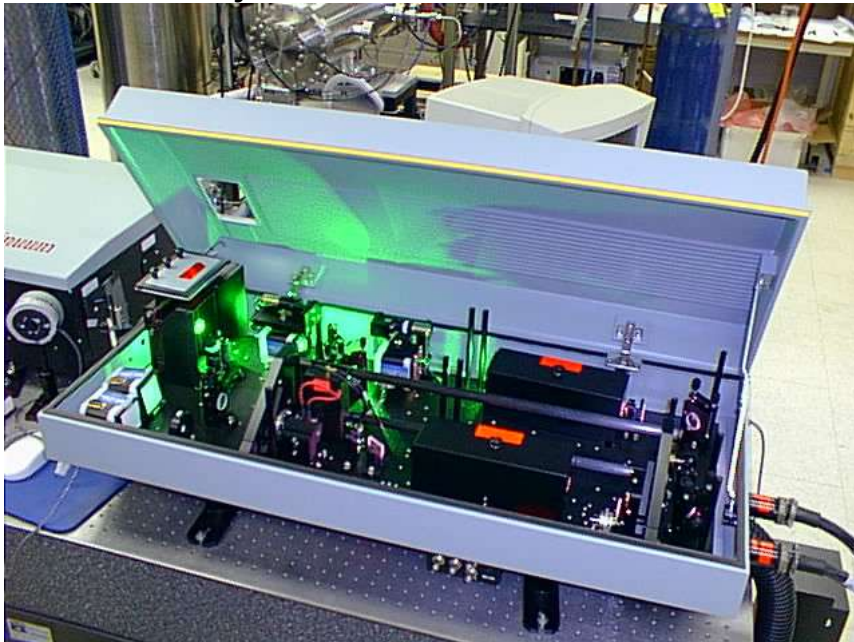


18. Genetic Analyser





19. Nd ; YAG Analyser



20. Spectroscopic Ellipsometer

