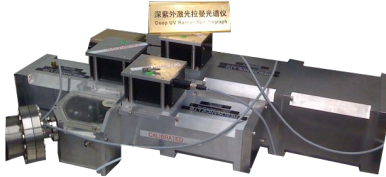




RamSPEC-VUV Hyperspectral VUV/UV Raman Spectrometer



RamSPEC-VUV captures the hyper-spectral Raman spectral images on a 25 mm by 7 mm back-thinned CCD detector cooled to <-45 C. It can capture 1044 pixel wide spectra with up to 0.01 nm resolution with as many as 256 vertical elements for each spectral element. The operational range of the spectrometer is any 10 nm band between 140 and 550 nm.

RamSPEC-VUV is the first commercial Raman spectrometer available for the VUV region of the spectrum and the first instrument to measure Raman scattering signal in the VUV range of 177 - 190 nm.

The system has been designed to allow interchangeability between various grating arrangements for optimum configuration.

It's relatively small size and modularity make it easy to adapt to almost any application.

Features

- Self-aligning, interchangeable sample holder
- Vac or purged sample chamber for rapid sample change
- Back-thinned CCD QE $>60\%$ at 180 nm
- Dry turbo pump with <30 min. pump down
- Sample chamber purge with N₂ or He for easy VUV
- 0.028 nm resolution from 140 to 550 nm
- LabView-based software
- Small size with modular design
- USB Interface