

XploRA, Raman Microscope Manufactured By: Horiba Scientific

XploRA

The XploRA Raman microscope combines confocal microscopy with full spectral Raman analysis in one instrument, enabling simultaneous chemical identification and imaging. Common applications include quality control analysis, material validation, and pharmaceutical testing.

XploRA Advantages

Advantages of this analytical technique include:

- Non-destructive testing and analysis
- No sample preparation
- Provides chemical analysis and identification
- High sensitivity for speed and improved limits of detection
- Simultaneous sample ID and localization

Note that Horiba Scientific partners with Bio-Rad to offer a Horiba edition of the KnowItALL(R) Informatics spectral database, however we do not have access to this database as of August 3, 2016.

XploRA ONE™ Specifications

- Laser: 785 nm
- Spectral Range: 100cm⁻¹ - 3500 cm⁻¹ range capable, 150cm⁻¹ - 2500 cm⁻¹ available with 785 nm laser
- Spectrograph: Imaging flat field spectrometer with large area CCD
- Detector: 1024x256 TE air-cooled scientific CCD
- Microscope: materials/clinical microscope
- Objectives available: 10X/0.25, 50X/0.55, 100X/0.9
- Software: LabSpec 6 spectral software suite
- Confocal sampling: Offers maximum 1µm x 1µm lateral resolution for micron scale Raman analysis and imaging
- Other notes: Microscope has been retrofitted with a dark box to improve sensitivity, especially for biological samples