

Confocal Raman Spectrometer



The LabRAM HR Evolution Raman microscope is ideally suited for both micro and macro measurements, and offer advanced confocal imaging capabilities in 2D and 3D. The confocal Raman microscope enables the most detailed images and analyses to be obtained with speed and confidence. With guaranteed high performance and intuitive simplicity, the LabRAM HR Evolution is the ultimate instrument for Raman spectroscopy. The LabRAM HR Evolution includes the unique SWIFT™ and DuoScan™ fast Raman imaging technologies.

DuoScan™ is a confocal imaging mode, with high precision, ultra-fast rastering mirrors creating variable sized laser macro-spots, and also allowing nano-step mapping from deep UV to NIR. SWIFT™ offers confocal Raman mapping with CCD integration times down to 1 ms per point and below. The unique combination of innovative optics, detectors and software combine to provide true confocal Raman imaging with an unmatched speed of data acquisition. Mirror based spectrometer of 800 mm focal length with holographic gratings 600 and 1800 grooves/mm. The salient features include

- ✚ Motorized computer-controlled operation for ease of use and speed of acquisition.
- ✚ Capability to perform Raman Measurements from 50cm⁻¹ to 4000cm⁻¹ with Highest Spectral Resolution of 1cm⁻¹.
- ✚ Excitation sources: (a) 532 nm (100 mW) 785 nm (300mW) 325nm (25mW)
- ✚ Microscope Objectives: 10x, 50x, 100x and 40x, 15x for UV laser
- ✚ Thermoelectrically cooled CCD camera (1024 × 256 pixels)
- ✚ XYZ Motorized stage for confocal Raman Imaging/Mapping with Single step size resolution of 100nm in XY direction and 10nm in Z direction.



Contact details

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Analysis Charges